Week 13 IP Supervised Learning

Billiah

2022-03-28

```
##The project is on data analysis. A Kenyan entrepreneur has collected data through ads so she can know

## Once one gets to click the ads by the entrepreneur, they can get an overview of the online course be


## The metrics of success is a high number of people clicking on the ad. A person will click on the ad
```

```
data <- read.csv("http://bit.ly/IPAdvertisingData")
```

```
## Getting the number of rows
```

```
nrow(data)
```

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

```
## Getting the number of columns
ncol(data)
```

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

The dataset has 10 columns

```
head(data)
```

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

```
summary(data)
```

```
##  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
```

```
# Changing the data type of the male column into factor
data$Male <- as.factor(data$Male)
```

```
## Checking if it is a factor
is.factor(data$Male)
```

```
## [1] TRUE
```

It has been converted to a factor

```
## Converting the clicked on ad variable to factor
data$Clicked.on.Ad <- as.factor(data$Clicked.on.Ad)
```

```
## Confirming if it has been converted
is.factor(data$Clicked.on.Ad)
```

```
## [1] TRUE
```

It has been converted to a factor

```
##checking for null values
is.na(data)
```

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##      Daily.Time.Spent.on.Site   Age Area.Income Daily.Internet.Usage
## [1,]                    FALSE FALSE       FALSE                 FALSE
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## [3,]                    FALSE FALSE       FALSE                 FALSE
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##  [889,]         FALSE FALSE FALSE   FALSE     FALSE         FALSE
##  [890,]         FALSE FALSE FALSE   FALSE     FALSE         FALSE
##  [891,]         FALSE FALSE FALSE   FALSE     FALSE         FALSE
##  [892,]         FALSE FALSE FALSE   FALSE     FALSE         FALSE
##  [893,]         FALSE FALSE FALSE   FALSE     FALSE         FALSE
##  [894,]         FALSE FALSE FALSE   FALSE     FALSE         FALSE
##  [895,]         FALSE FALSE FALSE   FALSE     FALSE         FALSE
##  [896,]         FALSE FALSE FALSE   FALSE     FALSE         FALSE
##  [897,]         FALSE FALSE FALSE   FALSE     FALSE         FALSE
##  [898,]         FALSE FALSE FALSE   FALSE     FALSE         FALSE
##  [899,]         FALSE FALSE FALSE   FALSE     FALSE         FALSE
##  [900,]         FALSE FALSE FALSE   FALSE     FALSE         FALSE
##  [901,]         FALSE FALSE FALSE   FALSE     FALSE         FALSE
##  [902,]         FALSE FALSE FALSE   FALSE     FALSE         FALSE
##  [903,]         FALSE FALSE FALSE   FALSE     FALSE         FALSE
##  [904,]         FALSE FALSE FALSE   FALSE     FALSE         FALSE
##  [905,]         FALSE FALSE FALSE   FALSE     FALSE         FALSE
##  [906,]         FALSE FALSE FALSE   FALSE     FALSE         FALSE
##  [907,]         FALSE FALSE FALSE   FALSE     FALSE         FALSE
##  [908,]         FALSE FALSE FALSE   FALSE     FALSE         FALSE
##  [909,]         FALSE FALSE FALSE   FALSE     FALSE         FALSE
##  [910,]         FALSE FALSE FALSE   FALSE     FALSE         FALSE
##  [911,]         FALSE FALSE FALSE   FALSE     FALSE         FALSE
##  [912,]         FALSE FALSE FALSE   FALSE     FALSE         FALSE
##  [913,]         FALSE FALSE FALSE   FALSE     FALSE         FALSE
##  [914,]         FALSE FALSE FALSE   FALSE     FALSE         FALSE
##  [915,]         FALSE FALSE FALSE   FALSE     FALSE         FALSE
##  [916,]         FALSE FALSE FALSE   FALSE     FALSE         FALSE
##  [917,]         FALSE FALSE FALSE   FALSE     FALSE         FALSE
##  [918,]         FALSE FALSE FALSE   FALSE     FALSE         FALSE
##  [919,]         FALSE FALSE FALSE   FALSE     FALSE         FALSE
##  [920,]         FALSE FALSE FALSE   FALSE     FALSE         FALSE
##  [921,]         FALSE FALSE FALSE   FALSE     FALSE         FALSE
##  [922,]         FALSE FALSE FALSE   FALSE     FALSE         FALSE
##  [923,]         FALSE FALSE FALSE   FALSE     FALSE         FALSE
##  [924,]         FALSE FALSE FALSE   FALSE     FALSE         FALSE
##  [925,]         FALSE FALSE FALSE   FALSE     FALSE         FALSE
##  [926,]         FALSE FALSE FALSE   FALSE     FALSE         FALSE
##  [927,]         FALSE FALSE FALSE   FALSE     FALSE         FALSE
##  [928,]         FALSE FALSE FALSE   FALSE     FALSE         FALSE
##  [929,]         FALSE FALSE FALSE   FALSE     FALSE         FALSE
##  [930,]         FALSE FALSE FALSE   FALSE     FALSE         FALSE
##  [931,]         FALSE FALSE FALSE   FALSE     FALSE         FALSE
##  [932,]         FALSE FALSE FALSE   FALSE     FALSE         FALSE
##  [933,]         FALSE FALSE FALSE   FALSE     FALSE         FALSE
##  [934,]         FALSE FALSE FALSE   FALSE     FALSE         FALSE
##  [935,]         FALSE FALSE FALSE   FALSE     FALSE         FALSE
##  [936,]         FALSE FALSE FALSE   FALSE     FALSE         FALSE
##  [937,]         FALSE FALSE FALSE   FALSE     FALSE         FALSE
##  [938,]         FALSE FALSE FALSE   FALSE     FALSE         FALSE
```

```
##  [939,]         FALSE FALSE FALSE   FALSE     FALSE         FALSE
##  [940,]         FALSE FALSE FALSE   FALSE     FALSE         FALSE
##  [941,]         FALSE FALSE FALSE   FALSE     FALSE         FALSE
##  [942,]         FALSE FALSE FALSE   FALSE     FALSE         FALSE
##  [943,]         FALSE FALSE FALSE   FALSE     FALSE         FALSE
##  [944,]         FALSE FALSE FALSE   FALSE     FALSE         FALSE
##  [945,]         FALSE FALSE FALSE   FALSE     FALSE         FALSE
##  [946,]         FALSE FALSE FALSE   FALSE     FALSE         FALSE
##  [947,]         FALSE FALSE FALSE   FALSE     FALSE         FALSE
##  [948,]         FALSE FALSE FALSE   FALSE     FALSE         FALSE
##  [949,]         FALSE FALSE FALSE   FALSE     FALSE         FALSE
##  [950,]         FALSE FALSE FALSE   FALSE     FALSE         FALSE
##  [951,]         FALSE FALSE FALSE   FALSE     FALSE         FALSE
##  [952,]         FALSE FALSE FALSE   FALSE     FALSE         FALSE
##  [953,]         FALSE FALSE FALSE   FALSE     FALSE         FALSE
##  [954,]         FALSE FALSE FALSE   FALSE     FALSE         FALSE
##  [955,]         FALSE FALSE FALSE   FALSE     FALSE         FALSE
##  [956,]         FALSE FALSE FALSE   FALSE     FALSE         FALSE
##  [957,]         FALSE FALSE FALSE   FALSE     FALSE         FALSE
##  [958,]         FALSE FALSE FALSE   FALSE     FALSE         FALSE
##  [959,]         FALSE FALSE FALSE   FALSE     FALSE         FALSE
##  [960,]         FALSE FALSE FALSE   FALSE     FALSE         FALSE
##  [961,]         FALSE FALSE FALSE   FALSE     FALSE         FALSE
##  [962,]         FALSE FALSE FALSE   FALSE     FALSE         FALSE
##  [963,]         FALSE FALSE FALSE   FALSE     FALSE         FALSE
##  [964,]         FALSE FALSE FALSE   FALSE     FALSE         FALSE
##  [965,]         FALSE FALSE FALSE   FALSE     FALSE         FALSE
##  [966,]         FALSE FALSE FALSE   FALSE     FALSE         FALSE
##  [967,]         FALSE FALSE FALSE   FALSE     FALSE         FALSE
##  [968,]         FALSE FALSE FALSE   FALSE     FALSE         FALSE
##  [969,]         FALSE FALSE FALSE   FALSE     FALSE         FALSE
##  [970,]         FALSE FALSE FALSE   FALSE     FALSE         FALSE
##  [971,]         FALSE FALSE FALSE   FALSE     FALSE         FALSE
##  [972,]         FALSE FALSE FALSE   FALSE     FALSE         FALSE
##  [973,]         FALSE FALSE FALSE   FALSE     FALSE         FALSE
##  [974,]         FALSE FALSE FALSE   FALSE     FALSE         FALSE
##  [975,]         FALSE FALSE FALSE   FALSE     FALSE         FALSE
##  [976,]         FALSE FALSE FALSE   FALSE     FALSE         FALSE
##  [977,]         FALSE FALSE FALSE   FALSE     FALSE         FALSE
##  [978,]         FALSE FALSE FALSE   FALSE     FALSE         FALSE
##  [979,]         FALSE FALSE FALSE   FALSE     FALSE         FALSE
##  [980,]         FALSE FALSE FALSE   FALSE     FALSE         FALSE
##  [981,]         FALSE FALSE FALSE   FALSE     FALSE         FALSE
##  [982,]         FALSE FALSE FALSE   FALSE     FALSE         FALSE
##  [983,]         FALSE FALSE FALSE   FALSE     FALSE         FALSE
##  [984,]         FALSE FALSE FALSE   FALSE     FALSE         FALSE
##  [985,]         FALSE FALSE FALSE   FALSE     FALSE         FALSE
##  [986,]         FALSE FALSE FALSE   FALSE     FALSE         FALSE
##  [987,]         FALSE FALSE FALSE   FALSE     FALSE         FALSE
##  [988,]         FALSE FALSE FALSE   FALSE     FALSE         FALSE
##  [989,]         FALSE FALSE FALSE   FALSE     FALSE         FALSE
##  [990,]         FALSE FALSE FALSE   FALSE     FALSE         FALSE
##  [991,]         FALSE FALSE FALSE   FALSE     FALSE         FALSE
##  [992,]         FALSE FALSE FALSE   FALSE     FALSE         FALSE
```

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

```
## Getting the total number of null values
sum(is.na(data))
```

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

```
## Checking for duplicates in the dataset
duplicated(data)
```

```
##    [1] FALSE FALSE FALSE FALSE FALSE FALSE FALSE FALSE FALSE FALSE FALSE FALSE
##   [13] FALSE FALSE FALSE FALSE FALSE FALSE FALSE FALSE FALSE FALSE FALSE FALSE
##   [25] FALSE FALSE FALSE FALSE FALSE FALSE FALSE FALSE FALSE FALSE FALSE FALSE
##   [37] FALSE FALSE FALSE FALSE FALSE FALSE FALSE FALSE FALSE FALSE FALSE FALSE
##   [49] FALSE FALSE FALSE FALSE FALSE FALSE FALSE FALSE FALSE FALSE FALSE FALSE
##   [61] FALSE FALSE FALSE FALSE FALSE FALSE FALSE FALSE FALSE FALSE FALSE FALSE
##   [73] FALSE FALSE FALSE FALSE FALSE FALSE FALSE FALSE FALSE FALSE FALSE FALSE
##   [85] FALSE FALSE FALSE FALSE FALSE FALSE FALSE FALSE FALSE FALSE FALSE FALSE
##   [97] FALSE FALSE FALSE FALSE FALSE FALSE FALSE FALSE FALSE FALSE FALSE FALSE
##  [109] FALSE FALSE FALSE FALSE FALSE FALSE FALSE FALSE FALSE FALSE FALSE FALSE
##  [121] FALSE FALSE FALSE FALSE FALSE FALSE FALSE FALSE FALSE FALSE FALSE FALSE
##  [133] FALSE FALSE FALSE FALSE FALSE FALSE FALSE FALSE FALSE FALSE FALSE FALSE
##  [145] FALSE FALSE FALSE FALSE FALSE FALSE FALSE FALSE FALSE FALSE FALSE FALSE
##  [157] FALSE FALSE FALSE FALSE FALSE FALSE FALSE FALSE FALSE FALSE FALSE FALSE
##  [169] FALSE FALSE FALSE FALSE FALSE FALSE FALSE FALSE FALSE FALSE FALSE FALSE
##  [181] FALSE FALSE FALSE FALSE FALSE FALSE FALSE FALSE FALSE FALSE FALSE FALSE
##  [193] FALSE FALSE FALSE FALSE FALSE FALSE FALSE FALSE FALSE FALSE FALSE FALSE
##  [205] FALSE FALSE FALSE FALSE FALSE FALSE FALSE FALSE FALSE FALSE FALSE FALSE
##  [217] FALSE FALSE FALSE FALSE FALSE FALSE FALSE FALSE FALSE FALSE FALSE FALSE
##  [229] FALSE FALSE FALSE FALSE FALSE FALSE FALSE FALSE FALSE FALSE FALSE FALSE
##  [241] FALSE FALSE FALSE FALSE FALSE FALSE FALSE FALSE FALSE FALSE FALSE FALSE
##  [253] FALSE FALSE FALSE FALSE FALSE FALSE FALSE FALSE FALSE FALSE FALSE FALSE
##  [265] FALSE FALSE FALSE FALSE FALSE FALSE FALSE FALSE FALSE FALSE FALSE FALSE
##  [277] FALSE FALSE FALSE FALSE FALSE FALSE FALSE FALSE FALSE FALSE FALSE FALSE
##  [289] FALSE FALSE FALSE FALSE FALSE FALSE FALSE FALSE FALSE FALSE FALSE FALSE
##  [301] FALSE FALSE FALSE FALSE FALSE FALSE FALSE FALSE FALSE FALSE FALSE FALSE
##  [313] FALSE FALSE FALSE FALSE FALSE FALSE FALSE FALSE FALSE FALSE FALSE FALSE
##  [325] FALSE FALSE FALSE FALSE FALSE FALSE FALSE FALSE FALSE FALSE FALSE FALSE
##  [337] FALSE FALSE FALSE FALSE FALSE FALSE FALSE FALSE FALSE FALSE FALSE FALSE
##  [349] FALSE FALSE FALSE FALSE FALSE FALSE FALSE FALSE FALSE FALSE FALSE FALSE
##  [361] FALSE FALSE FALSE FALSE FALSE FALSE FALSE FALSE FALSE FALSE FALSE FALSE
##  [373] FALSE FALSE FALSE FALSE FALSE FALSE FALSE FALSE FALSE FALSE FALSE FALSE
##  [385] FALSE FALSE FALSE FALSE FALSE FALSE FALSE FALSE FALSE FALSE FALSE FALSE
##  [397] FALSE FALSE FALSE FALSE FALSE FALSE FALSE FALSE FALSE FALSE FALSE FALSE
##  [409] FALSE FALSE FALSE FALSE FALSE FALSE FALSE FALSE FALSE FALSE FALSE FALSE
##  [421] FALSE FALSE FALSE FALSE FALSE FALSE FALSE FALSE FALSE FALSE FALSE FALSE
```

```
##  [433] FALSE FALSE FALSE FALSE FALSE FALSE FALSE FALSE FALSE FALSE FALSE FALSE
##  [445] FALSE FALSE FALSE FALSE FALSE FALSE FALSE FALSE FALSE FALSE FALSE FALSE
##  [457] FALSE FALSE FALSE FALSE FALSE FALSE FALSE FALSE FALSE FALSE FALSE FALSE
##  [469] FALSE FALSE FALSE FALSE FALSE FALSE FALSE FALSE FALSE FALSE FALSE FALSE
##  [481] FALSE FALSE FALSE FALSE FALSE FALSE FALSE FALSE FALSE FALSE FALSE FALSE
##  [493] FALSE FALSE FALSE FALSE FALSE FALSE FALSE FALSE FALSE FALSE FALSE FALSE
##  [505] FALSE FALSE FALSE FALSE FALSE FALSE FALSE FALSE FALSE FALSE FALSE FALSE
##  [517] FALSE FALSE FALSE FALSE FALSE FALSE FALSE FALSE FALSE FALSE FALSE FALSE
##  [529] FALSE FALSE FALSE FALSE FALSE FALSE FALSE FALSE FALSE FALSE FALSE FALSE
##  [541] FALSE FALSE FALSE FALSE FALSE FALSE FALSE FALSE FALSE FALSE FALSE FALSE
##  [553] FALSE FALSE FALSE FALSE FALSE FALSE FALSE FALSE FALSE FALSE FALSE FALSE
##  [565] FALSE FALSE FALSE FALSE FALSE FALSE FALSE FALSE FALSE FALSE FALSE FALSE
##  [577] FALSE FALSE FALSE FALSE FALSE FALSE FALSE FALSE FALSE FALSE FALSE FALSE
##  [589] FALSE FALSE FALSE FALSE FALSE FALSE FALSE FALSE FALSE FALSE FALSE FALSE
##  [601] FALSE FALSE FALSE FALSE FALSE FALSE FALSE FALSE FALSE FALSE FALSE FALSE
##  [613] FALSE FALSE FALSE FALSE FALSE FALSE FALSE FALSE FALSE FALSE FALSE FALSE
##  [625] FALSE FALSE FALSE FALSE FALSE FALSE FALSE FALSE FALSE FALSE FALSE FALSE
##  [637] FALSE FALSE FALSE FALSE FALSE FALSE FALSE FALSE FALSE FALSE FALSE FALSE
##  [649] FALSE FALSE FALSE FALSE FALSE FALSE FALSE FALSE FALSE FALSE FALSE FALSE
##  [661] FALSE FALSE FALSE FALSE FALSE FALSE FALSE FALSE FALSE FALSE FALSE FALSE
##  [673] FALSE FALSE FALSE FALSE FALSE FALSE FALSE FALSE FALSE FALSE FALSE FALSE
##  [685] FALSE FALSE FALSE FALSE FALSE FALSE FALSE FALSE FALSE FALSE FALSE FALSE
##  [697] FALSE FALSE FALSE FALSE FALSE FALSE FALSE FALSE FALSE FALSE FALSE FALSE
##  [709] FALSE FALSE FALSE FALSE FALSE FALSE FALSE FALSE FALSE FALSE FALSE FALSE
##  [721] FALSE FALSE FALSE FALSE FALSE FALSE FALSE FALSE FALSE FALSE FALSE FALSE
##  [733] FALSE FALSE FALSE FALSE FALSE FALSE FALSE FALSE FALSE FALSE FALSE FALSE
##  [745] FALSE FALSE FALSE FALSE FALSE FALSE FALSE FALSE FALSE FALSE FALSE FALSE
##  [757] FALSE FALSE FALSE FALSE FALSE FALSE FALSE FALSE FALSE FALSE FALSE FALSE
##  [769] FALSE FALSE FALSE FALSE FALSE FALSE FALSE FALSE FALSE FALSE FALSE FALSE
##  [781] FALSE FALSE FALSE FALSE FALSE FALSE FALSE FALSE FALSE FALSE FALSE FALSE
##  [793] FALSE FALSE FALSE FALSE FALSE FALSE FALSE FALSE FALSE FALSE FALSE FALSE
##  [805] FALSE FALSE FALSE FALSE FALSE FALSE FALSE FALSE FALSE FALSE FALSE FALSE
##  [817] FALSE FALSE FALSE FALSE FALSE FALSE FALSE FALSE FALSE FALSE FALSE FALSE
##  [829] FALSE FALSE FALSE FALSE FALSE FALSE FALSE FALSE FALSE FALSE FALSE FALSE
##  [841] FALSE FALSE FALSE FALSE FALSE FALSE FALSE FALSE FALSE FALSE FALSE FALSE
##  [853] FALSE FALSE FALSE FALSE FALSE FALSE FALSE FALSE FALSE FALSE FALSE FALSE
##  [865] FALSE FALSE FALSE FALSE FALSE FALSE FALSE FALSE FALSE FALSE FALSE FALSE
##  [877] FALSE FALSE FALSE FALSE FALSE FALSE FALSE FALSE FALSE FALSE FALSE FALSE
##  [889] FALSE FALSE FALSE FALSE FALSE FALSE FALSE FALSE FALSE FALSE FALSE FALSE
##  [901] FALSE FALSE FALSE FALSE FALSE FALSE FALSE FALSE FALSE FALSE FALSE FALSE
##  [913] FALSE FALSE FALSE FALSE FALSE FALSE FALSE FALSE FALSE FALSE FALSE FALSE
##  [925] FALSE FALSE FALSE FALSE FALSE FALSE FALSE FALSE FALSE FALSE FALSE FALSE
##  [937] FALSE FALSE FALSE FALSE FALSE FALSE FALSE FALSE FALSE FALSE FALSE FALSE
##  [949] FALSE FALSE FALSE FALSE FALSE FALSE FALSE FALSE FALSE FALSE FALSE FALSE
##  [961] FALSE FALSE FALSE FALSE FALSE FALSE FALSE FALSE FALSE FALSE FALSE FALSE
##  [973] FALSE FALSE FALSE FALSE FALSE FALSE FALSE FALSE FALSE FALSE FALSE FALSE
##  [985] FALSE FALSE FALSE FALSE FALSE FALSE FALSE FALSE FALSE FALSE FALSE FALSE
##  [997] FALSE FALSE FALSE FALSE
```

```
sum(duplicated(data))
```

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

There are no duplicates in the dataset

```
## Checking for outliers
## Using boxplots to check for outliers
boxplot.stats(data$Daily.Time.Spent.on.Site)$out
```

```
## numeric(0)
```

```
boxplot.stats(data$Age)$out
```

```
## integer(0)
```

```
boxplot.stats(data$Area.Income)$out
```

```
## [1] 17709.98 18819.34 15598.29 15879.10 14548.06 13996.50 14775.50 18368.57
```

```
boxplot.stats(data$Daily.Internet.Usage)$out
```

```
## numeric(0)
```

```
## Univariate Analysis
## The first univariate analysis is to get the measures of central tendencies
## Getting the mean
# Get Mean of the multiple columns

colMeans(data[sapply(data, is.numeric)])
```

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

```
## Getting the median
median(data$Daily.Time.Spent.on.Site)
```

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

```
median(data$Age)
```

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

```
median(data$Area.Income)
```

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

```
median(data$Daily.Internet.Usage)
```

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

```r
## Getting the mode
mode(data$Daily.Time.Spent.on.Site)
```

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

```r
mode(data$Age)
```

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

```r
mode(data$Area.Income)
```

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

```r
mode(data$Daily.Internet.Usage)
```

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

```r
mode(data$Ad.Topic.Line)
```

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

```r
mode(data$City)
```

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

```r
mode(data$Male)
```

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

```r
mode(data$Country)
```

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

```r
mode(data$Timestamp)
```

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

```r
mode(data$Clicked.on.Ad)
```

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

```r
## Getting the maximum and minimum values of numerical variables
max(data$Daily.Time.Spent.on.Site)
```

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

```r
max(data$Age)
```

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

```r
max(data$Area.Income)
```

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

```r
max(data$Daily.Internet.Usage)
```

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

```r
## Getting the minimum values
min(data$Daily.Time.Spent.on.Site)
```

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

```r
min(data$Age)
```

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

```r
min(data$Area.Income)
```

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

```r
min(data$Daily.Internet.Usage)
```

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

```r
## Getting measures of dispersion
# Getting interquantile range
IQR(data$Daily.Time.Spent.on.Site)
```

```
## [1] 27.1875
```

```r
IQR(data$Age)
```

```
## [1] 13
```

```r
IQR(data$Area.Income)
```

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

```r
IQR(data$Daily.Internet.Usage)
```

```
## [1] 79.9625
```

```
## Getting standard deviation
sd(data$Daily.Time.Spent.on.Site)
```

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

```
sd(data$Age)
```

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

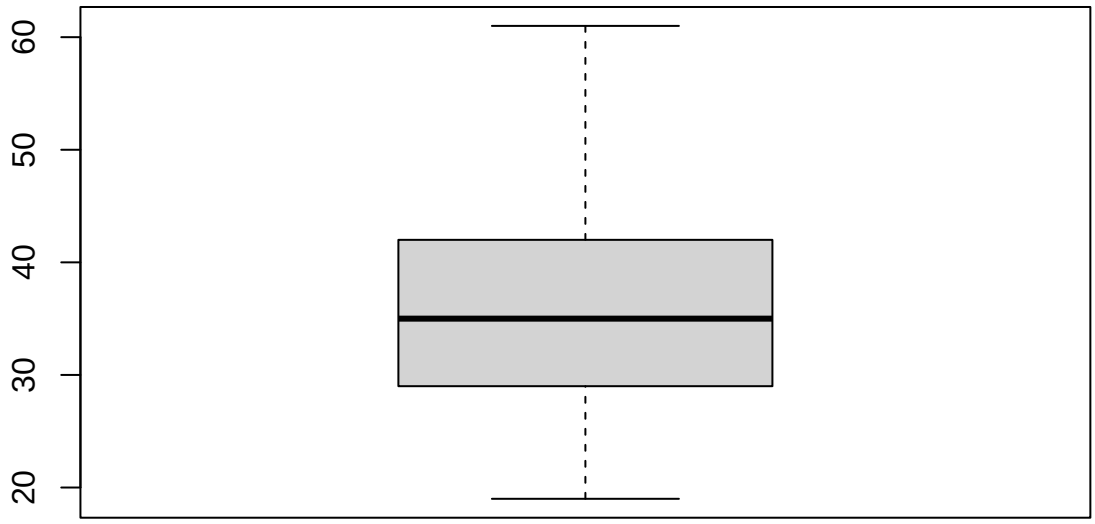
```
sd(data$Area.Income)
```

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

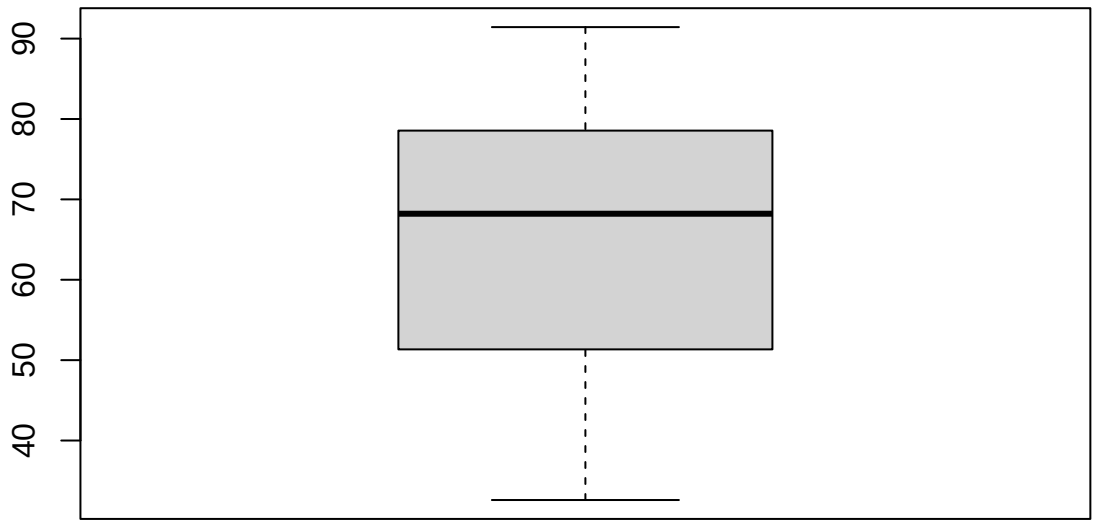
```
sd(data$Daily.Internet.Usage)
```

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

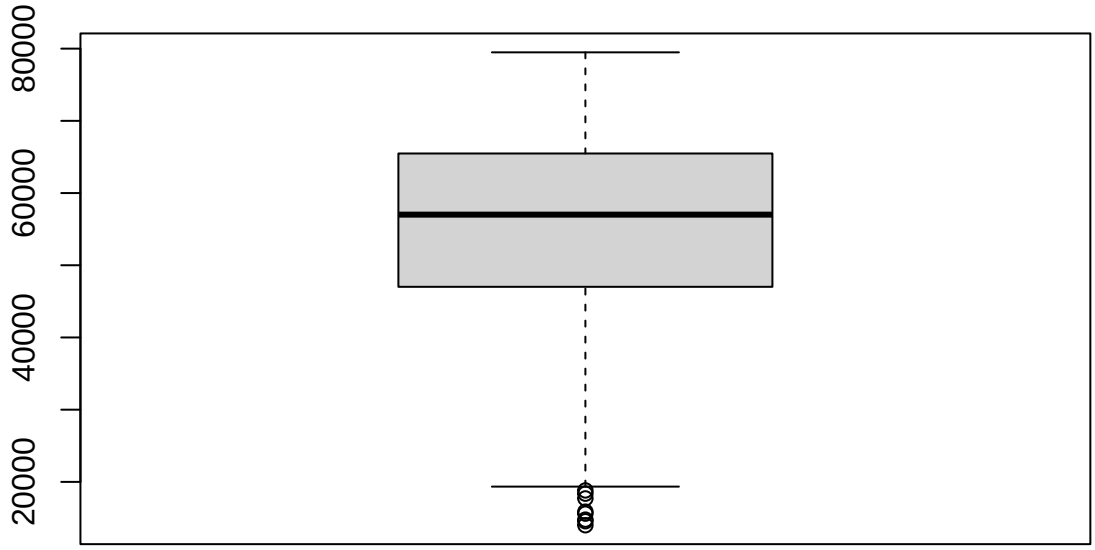
```
## Getting summaries using boxplot
boxplot(data$Age)
```



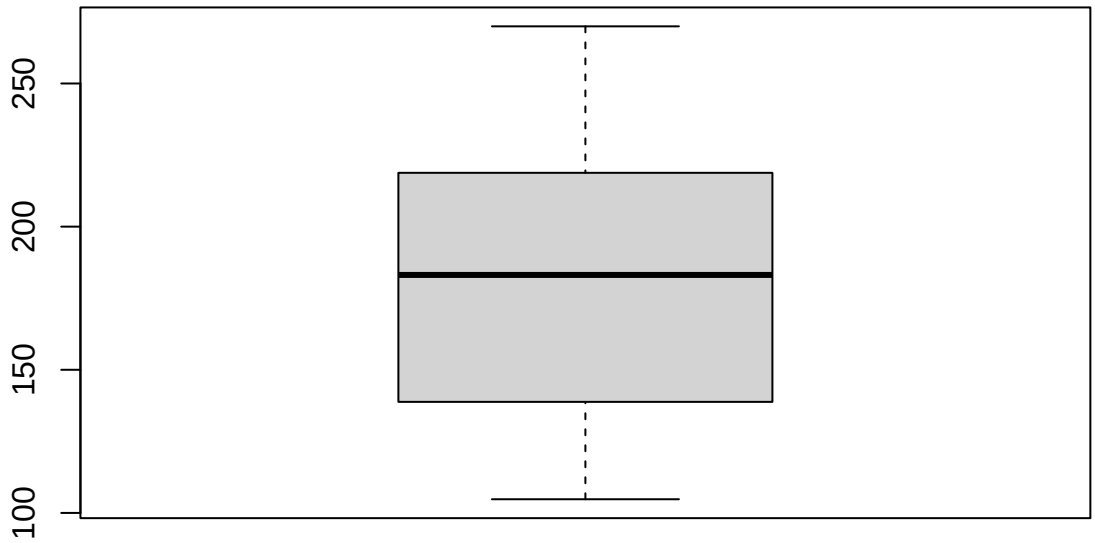
```
boxplot(data$Daily.Time.Spent.on.Site)
```



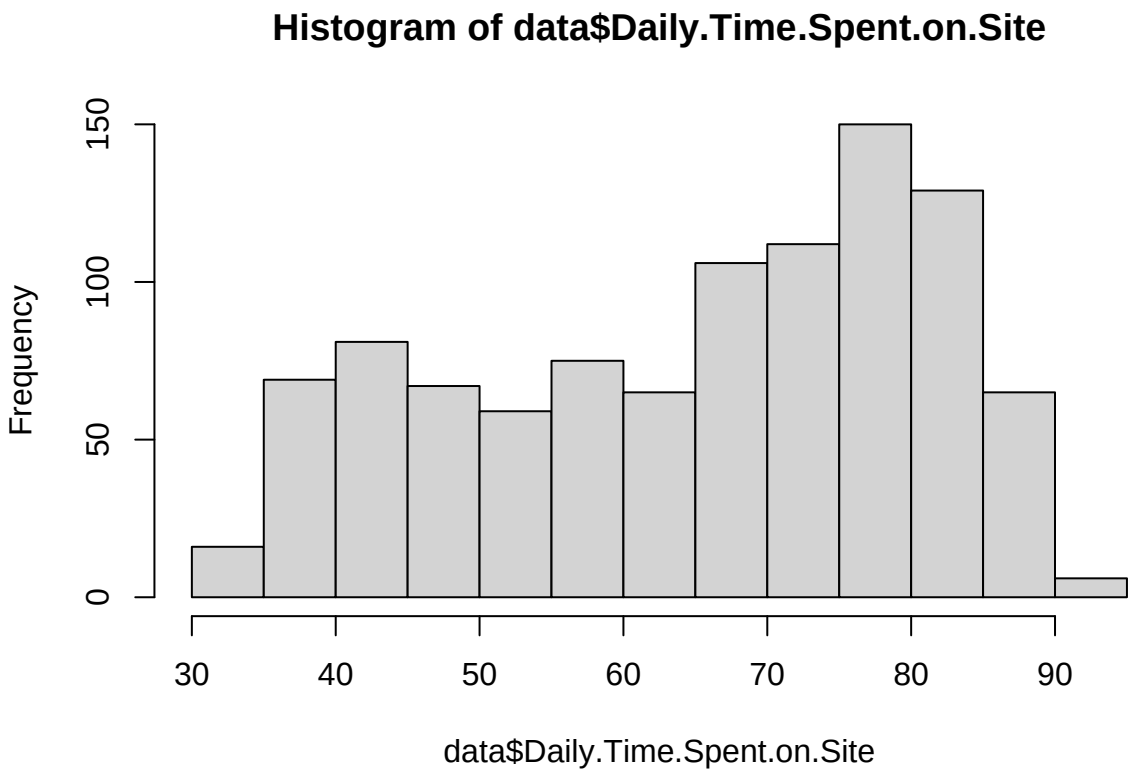

```
boxplot(data$Area.Income)
```




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

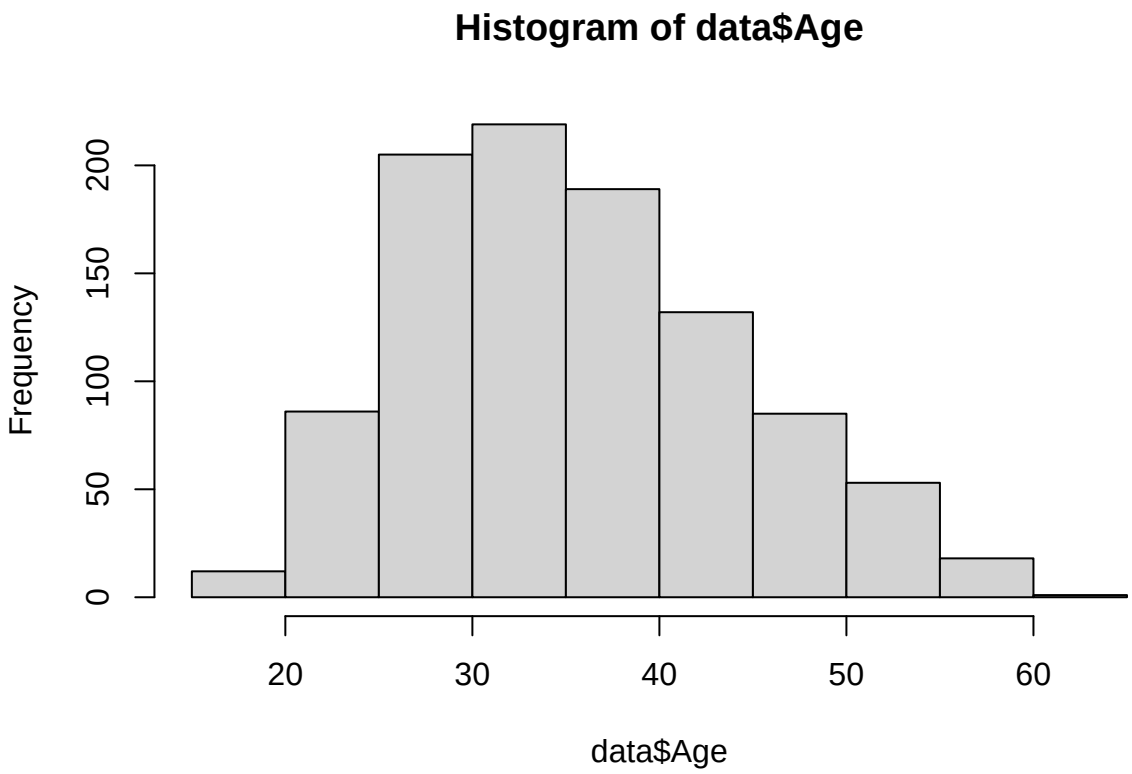



```
## Showing distribution using histogram
hist(data$Daily.Time.Spent.on.Site)
```



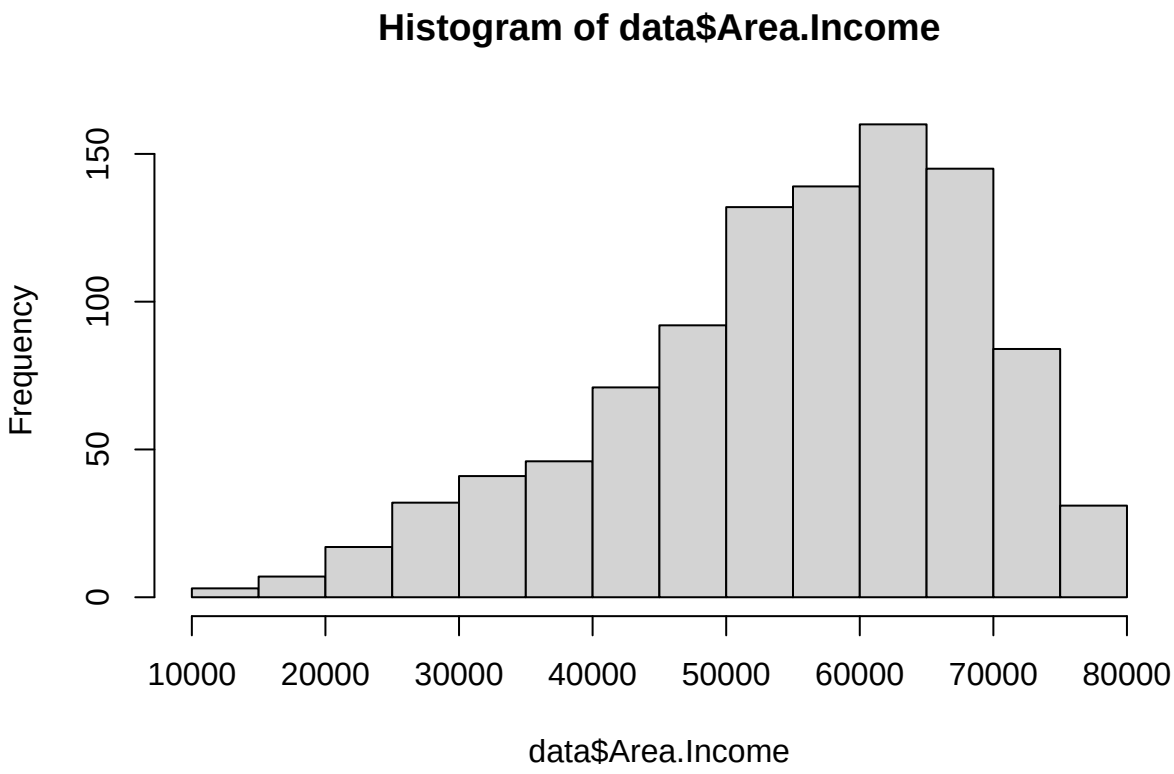
The highest amount of time spent on the site is between 75 and 80.

```
hist(data$Age)
```



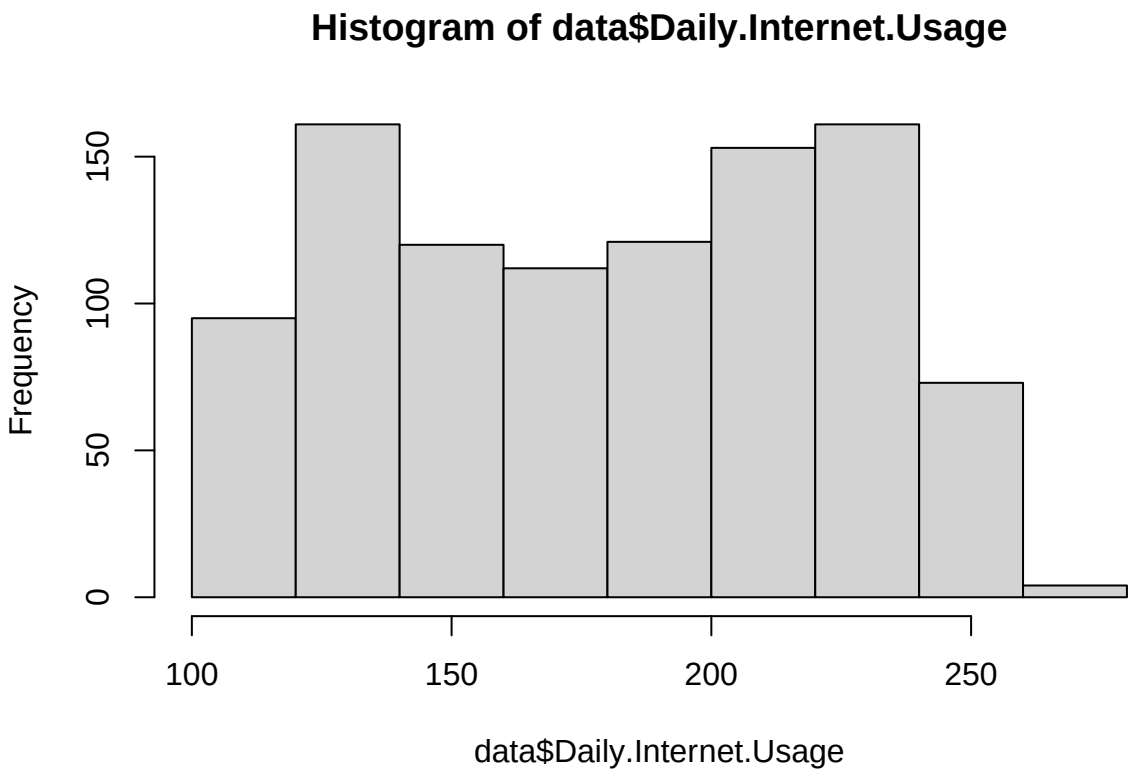
The highest number of people on the site are aged between 30 and 35.

```
hist(data$Area.Income)
```



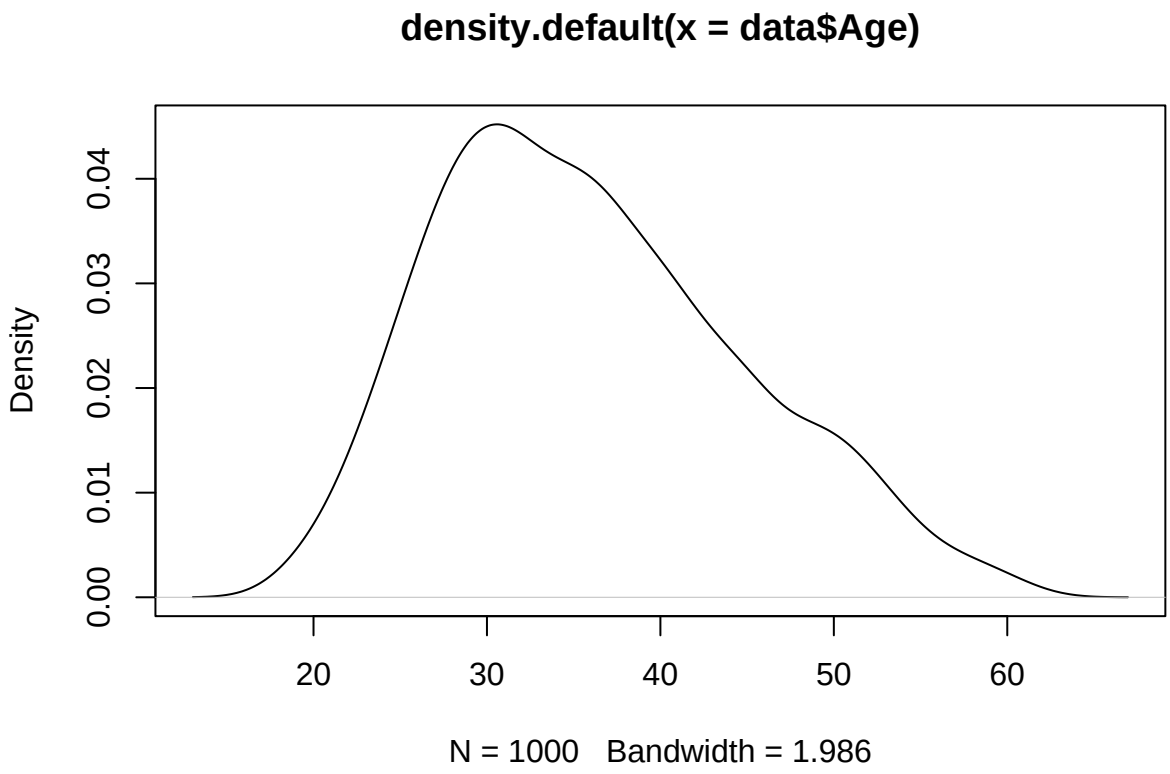
The highest level of income is between 60000-65000.

```
hist(data$Daily.Internet.Usage)
```



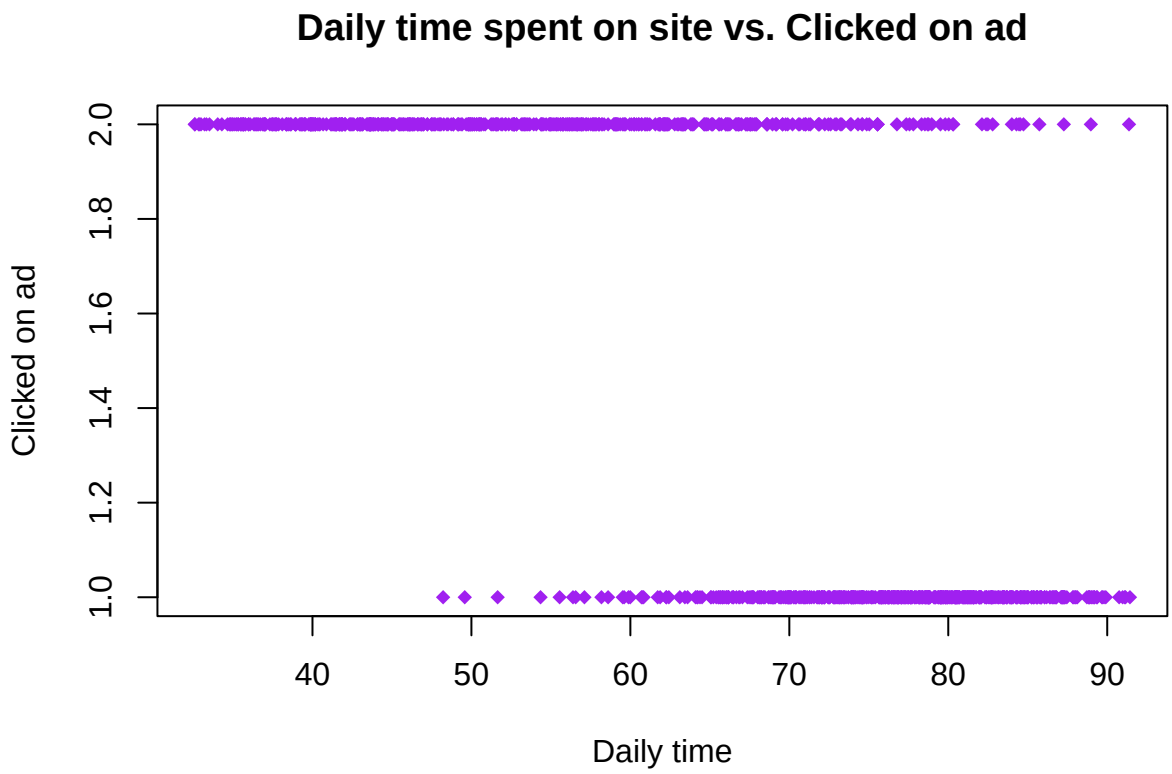
The highest level of daily internet usage is between 100 and 150, and between 225 and 250.

```
## Analysing age distribution using density plot
plot(density(data$Age))
```



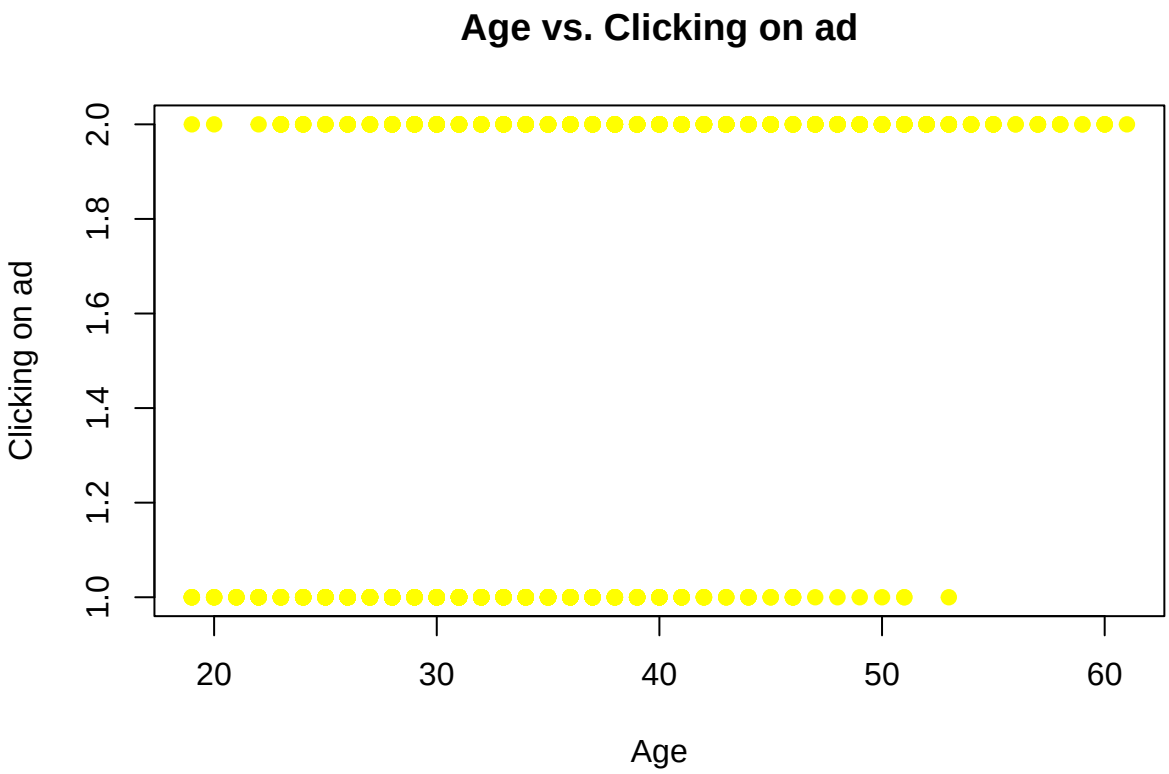
The highest number of people are aged between 30 and 40.

```
##  Bivariate Analysis
## Bivariate Analysis using scatter plots
## We will analyze how two factors are related or influence each other
## Analysing how daily time on site influences clicking on the ad
plot(data$Daily.Time.Spent.on.Site, data$Clicked.on.Ad, pch=18, col='purple',
     main='Daily time spent on site vs. Clicked on ad',
     xlab='Daily time', ylab='Clicked on ad')
```



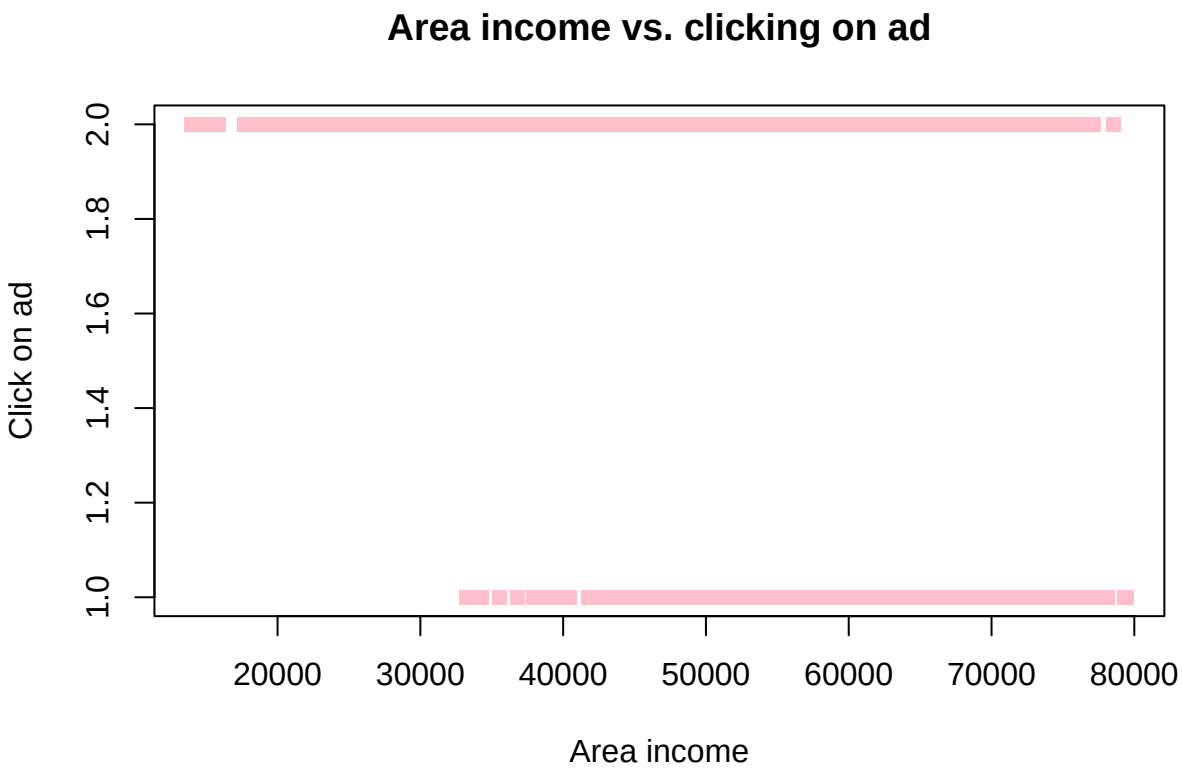
The two variables have no linear relationship. The time spent on the site does not influence clicking on the ad.

```
# scatterplot on age vs clicking on ad
plot(data$Age, data$Clicked.on.Ad, pch=19, col='yellow',
     main='Age vs. Clicking on ad',
     xlab='Age', ylab='Clicking on ad')
```



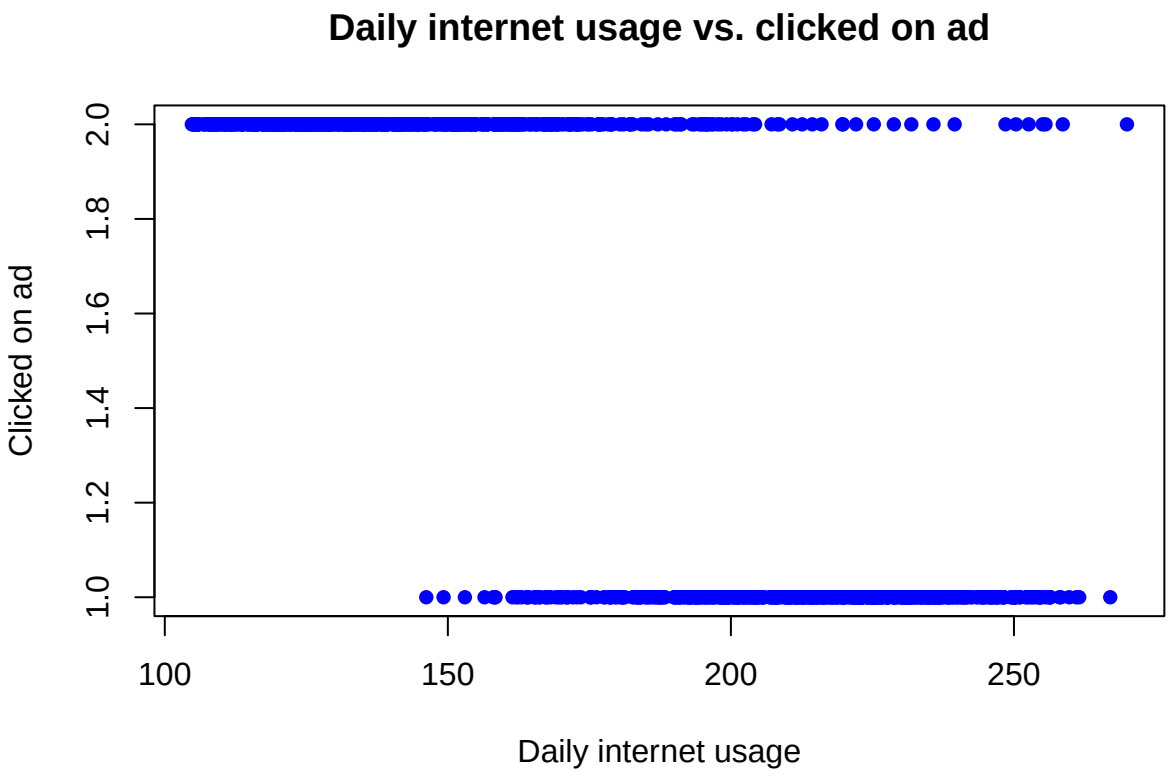
Age and clicking on ad have no linear relationship. Age does not influence clicking on an ad.

```
## Scatterplot on area income vs clicking on site
plot(data$Area.Income, data$Clicked.on.Ad, pch=15, col='pink',
     main='Area income vs. clicking on ad',
     xlab='Area income', ylab='Click on ad')
```



The area income has no linear relationship with clicking on an ad. An individual's income does not influence the clicking of an ad.

```
## Scatterplot on daily internet usage vs clicking on an ad
plot(data$Daily.Internet.Usage, data$Clicked.on.Ad, pch=16, col='blue',
     main='Daily internet usage vs. clicked on ad',
     xlab='Daily internet usage', ylab='Clicked on ad')
```



The daily internet usage has no linear relationship with clicking on an ad. A person's internet usage does not influence clicking on an ad.

```
## The second way of bivariate analysis is through the us of correlation coeffiecients
# Getting the  correlation between age and area income
cor(data$Age, data$Area.Income)
```

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

The two variables are weakly negatively correlated. Age does not influence the area income positively.

```
## Correlation between age and time spent on the site

cor(data$Age, data$Daily.Time.Spent.on.Site)
```

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

The two variables are weakly negatively correlated. As age increases, the time spent on the site decreases.

```
#calculate correlation between age and daily internet usage
cor(data$Daily.Internet.Usage, data$Age)
```

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

The two variables are inversely and negatively correlated. As age increases, the time spent on the internet decreases.

```
## Another way of bivariate analysis is the use of the regression model
#fit simple linear regression model
fit <- lm(data$Daily.Internet.Usage ~ data$Daily.Time.Spent.on.Site , data=data)

#view summary of model
summary(fit)
```

```
##
## Call:
## lm(formula = data$Daily.Internet.Usage ~ data$Daily.Time.Spent.on.Site,
##     data = data)
##
## Residuals:
##     Min      1Q  Median      3Q     Max
## -82.088 -27.379   1.833  27.242 101.379
##
## Coefficients:
##                               Estimate Std. Error t value Pr(>|t|)
## (Intercept)                   86.64124    5.01420   17.28   <2e-16 ***
## data$Daily.Time.Spent.on.Site  1.43629    0.07495   19.16   <2e-16 ***
## ---
## Signif. codes:  0 '***' 0.001 '**' 0.01 '*' 0.05 '.' 0.1 ' ' 1
##
## Residual standard error: 37.55 on 998 degrees of freedom
## Multiple R-squared:  0.269,  Adjusted R-squared:  0.2683
## F-statistic: 367.3 on 1 and 998 DF,  p-value: < 2.2e-16
```

```
lm(formula = data$Daily.Internet.Usage ~ data$Daily.Time.Spent.on.Site, data = data)
```

```
##
## Call:
## lm(formula = data$Daily.Internet.Usage ~ data$Daily.Time.Spent.on.Site,
##     data = data)
##
## Coefficients:
##                   (Intercept)  data$Daily.Time.Spent.on.Site
##                        86.641                          1.436
```

For every day spent on the internet, there is 14% chance to spend time on the site.

```
## Classification

library(naivebayes)
```

```
## naivebayes 0.9.7 loaded
```

```
library(dplyr)
```

```
##
## Attaching package: 'dplyr'

## The following objects are masked from 'package:stats':
##
##     filter, lag

## The following objects are masked from 'package:base':
##
##     intersect, setdiff, setequal, union
```

```
library(psych)
library(ggplot2)
```

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

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

```
# Loading package
library(e1071)
library(caTools)
library(caret)
```

```
## Loading required package: lattice
```

```
# Splitting data into training and test data sets
# ---
#
indxTrain <- createDataPartition(y = data$Clicked.on.Ad,p = 0.75,list = FALSE)
training <- data[indxTrain,]
testing <- data[-indxTrain,]
```

```
## Checking dimensions of the split
# ---
#
prop.table(table(data$Clicked.on.Ad)) * 100
```

```
##
##  0  1
## 50 50
```

```
prop.table(table(training$Clicked.on.Ad)) * 100
```

```
##
##  0  1
## 50 50
```

```r
prop.table(table(testing$Clicked.on.Ad)) * 100
```

```
##
##  0  1
## 50 50
```

```r
# Dividing data into features and labels
x = training[,-9]
y = training$Clicked.on.Ad
```

```r
# Model building
set.seed(120)  # Setting Seed
classifier <- naiveBayes(Clicked.on.Ad ~ ., data = training)
classifier
```

```
##
## Naive Bayes Classifier for Discrete Predictors
##
## Call:
## naiveBayes.default(x = X, y = Y, laplace = laplace)
##
## A-priori probabilities:
## Y
##   0   1
## 0.5 0.5
##
## Conditional probabilities:
##    Daily.Time.Spent.on.Site
## Y       [,1]      [,2]
##   0 76.87952  7.572993
##   1 53.66480 13.209767
##
##    Age
## Y     [,1]     [,2]
##   0 31.496 6.257347
##   1 40.344 8.905118
##
##    Area.Income
## Y       [,1]      [,2]
##   0 61187.65  9074.454
##   1 49426.98 13680.100
##
##    Daily.Internet.Usage
## Y       [,1]     [,2]
##   0 213.7847 23.70015
##   1 145.3895 30.40167
##
##    Ad.Topic.Line
## Y   Adaptive 24hour Graphic Interface Adaptive contextually-based methodology
##   0                        0.002666667                                0.000000000
##   1                        0.000000000                                0.002666667
##    Ad.Topic.Line
```

```
## Y   Adaptive uniform capability Advanced 24/7 productivity
##   0                 0.000000000                0.000000000
##   1                 0.002666667                0.002666667
##    Ad.Topic.Line
## Y   Advanced 5thgeneration capability Advanced disintermediate data-warehouse
##   0                       0.002666667                           0.000000000
##   1                       0.000000000                           0.002666667
##    Ad.Topic.Line
## Y   Advanced exuding conglomeration Advanced full-range migration
##   0                     0.002666667                  0.002666667
##   1                     0.000000000                  0.000000000
##    Ad.Topic.Line
## Y   Advanced heuristic firmware Advanced local task-force
##   0                 0.002666667              0.002666667
##   1                 0.000000000              0.000000000
##    Ad.Topic.Line
## Y   Advanced modular Local Area Network Advanced systemic productivity
##   0                        0.002666667                  0.000000000
##   1                        0.000000000                  0.002666667
##    Ad.Topic.Line
## Y   Ameliorated actuating workforce Ameliorated bandwidth-monitored contingency
##   0                     0.002666667                                0.000000000
##   1                     0.000000000                                0.002666667
##    Ad.Topic.Line
## Y   Ameliorated client-driven forecast Ameliorated discrete extranet
##   0                        0.000000000                  0.000000000
##   1                        0.002666667                  0.002666667
##    Ad.Topic.Line
## Y   Ameliorated exuding encryption Ameliorated exuding solution
##   0                    0.002666667                 0.000000000
##   1                    0.000000000                 0.002666667
##    Ad.Topic.Line
## Y   Ameliorated intermediate Graphical User Interface
##   0                                      0.002666667
##   1                                      0.000000000
##    Ad.Topic.Line
## Y   Ameliorated leadingedge help-desk Ameliorated local workforce
##   0                       0.000000000                0.002666667
##   1                       0.002666667                0.000000000
##    Ad.Topic.Line
## Y   Ameliorated upward-trending definition
##   0                           0.002666667
##   1                           0.000000000
##    Ad.Topic.Line
## Y   Ameliorated well-modulated complexity Assimilated actuating policy
##   0                           0.000000000                0.002666667
##   1                           0.002666667                0.000000000
##    Ad.Topic.Line
## Y   Assimilated discrete strategy Assimilated encompassing portal
##   0                   0.002666667                   0.002666667
##   1                   0.000000000                   0.000000000
##    Ad.Topic.Line
## Y   Assimilated fault-tolerant hub Assimilated homogeneous service-desk
##   0                    0.000000000                          0.002666667
```

```
##   1                    0.002666667                           0.000000000
##    Ad.Topic.Line
## Y   Assimilated multi-state paradigm Assimilated next generation firmware
##   0                      0.000000000                          0.000000000
##   1                      0.002666667                          0.002666667
##    Ad.Topic.Line
## Y   Assimilated stable encryption Automated coherent flexibility
##   0                   0.002666667                   0.002666667
##   1                   0.000000000                   0.000000000
##    Ad.Topic.Line
## Y   Automated directional function Automated full-range Internet solution
##   0                    0.000000000                          0.002666667
##   1                    0.002666667                          0.000000000
##    Ad.Topic.Line
## Y   Automated multi-state toolset Automated object-oriented firmware
##   0                   0.000000000                       0.000000000
##   1                   0.002666667                       0.002666667
##    Ad.Topic.Line
## Y   Automated stable help-desk Automated static concept
##   0                0.000000000             0.000000000
##   1                0.002666667             0.002666667
##    Ad.Topic.Line
## Y   Automated web-enabled migration Balanced 4thgeneration success
##   0                     0.000000000                   0.002666667
##   1                     0.002666667                   0.000000000
##    Ad.Topic.Line
## Y   Balanced actuating moderator Balanced asynchronous hierarchy
##   0                  0.000000000                   0.000000000
##   1                  0.002666667                   0.002666667
##    Ad.Topic.Line
## Y   Balanced contextually-based pricing structure Balanced discrete approach
##   0                                   0.000000000               0.002666667
##   1                                   0.002666667               0.000000000
##    Ad.Topic.Line
## Y   Balanced disintermediate conglomeration Balanced dynamic application
##   0                             0.000000000                 0.002666667
##   1                             0.002666667                 0.000000000
##    Ad.Topic.Line
## Y   Balanced empowering success Balanced executive definition
##   0                0.002666667                  0.002666667
##   1                0.000000000                  0.000000000
##    Ad.Topic.Line
## Y   Balanced heuristic approach Balanced mobile Local Area Network
##   0                0.002666667                       0.002666667
##   1                0.000000000                       0.000000000
##    Ad.Topic.Line
## Y   Balanced responsive open system
##   0                     0.002666667
##   1                     0.000000000
##    Ad.Topic.Line
## Y   Business-focused asynchronous budgetary management
##   0                                        0.002666667
##   1                                        0.000000000
##    Ad.Topic.Line
```

```
## Y   Business-focused background synergy Business-focused client-driven forecast
##   0                          0.000000000                                0.000000000
##   1                          0.002666667                                0.002666667
##    Ad.Topic.Line
## Y   Business-focused encompassing neural-net
##   0                             0.002666667
##   1                             0.000000000
##    Ad.Topic.Line
## Y   Business-focused high-level hardware Business-focused holistic benchmark
##   0                          0.002666667                          0.002666667
##   1                          0.000000000                          0.000000000
##    Ad.Topic.Line
## Y   Business-focused maximized complexity Business-focused real-time toolset
##   0                           0.002666667                        0.000000000
##   1                           0.000000000                        0.002666667
##    Ad.Topic.Line
## Y   Business-focused responsive website Business-focused transitional solution
##   0                          0.002666667                            0.000000000
##   1                          0.000000000                            0.002666667
##    Ad.Topic.Line
## Y   Business-focused user-facing benchmark
##   0                            0.000000000
##   1                            0.002666667
##    Ad.Topic.Line
## Y   Business-focused value-added definition Centralized 24/7 installation
##   0                            0.002666667                   0.000000000
##   1                            0.000000000                   0.002666667
##    Ad.Topic.Line
## Y   Centralized clear-thinking Graphic Interface
##   0                                 0.002666667
##   1                                 0.000000000
##    Ad.Topic.Line
## Y   Centralized client-driven workforce Centralized content-based focus group
##   0                          0.002666667                           0.000000000
##   1                          0.000000000                           0.002666667
##    Ad.Topic.Line
## Y   Centralized logistical secured line Centralized neutral neural-net
##   0                          0.002666667                    0.000000000
##   1                          0.000000000                    0.002666667
##    Ad.Topic.Line
## Y   Centralized tertiary pricing structure Centralized user-facing service-desk
##   0                            0.000000000                           0.002666667
##   1                            0.002666667                           0.000000000
##    Ad.Topic.Line
## Y   Centralized value-added hierarchy Cloned 5thgeneration orchestration
##   0                       0.002666667                       0.002666667
##   1                       0.000000000                       0.000000000
##    Ad.Topic.Line
## Y   Cloned analyzing artificial intelligence Cloned dedicated analyzer
##   0                            0.000000000               0.002666667
##   1                            0.002666667               0.000000000
##    Ad.Topic.Line
## Y   Cloned object-oriented benchmark Cloned optimal leverage
##   0                       0.000000000             0.002666667
```

```
##   1                      0.002666667             0.000000000
##    Ad.Topic.Line
## Y   Compatible composite project Compatible dedicated productivity
##   0                  0.002666667                      0.002666667
##   1                  0.000000000                      0.000000000
##    Ad.Topic.Line
## Y   Compatible intangible customer loyalty Compatible systemic function
##   0                           0.000000000                 0.000000000
##   1                           0.002666667                 0.002666667
##    Ad.Topic.Line
## Y   Configurable asynchronous application Configurable bottom-line application
##   0                          0.002666667                         0.000000000
##   1                          0.000000000                         0.002666667
##    Ad.Topic.Line
## Y   Configurable coherent function Configurable disintermediate throughput
##   0                    0.002666667                              0.000000000
##   1                    0.000000000                              0.002666667
##    Ad.Topic.Line
## Y   Configurable dynamic adapter Configurable dynamic secured line
##   0                  0.000000000                      0.002666667
##   1                  0.002666667                      0.000000000
##    Ad.Topic.Line
## Y   Configurable impactful capacity Configurable impactful firmware
##   0                     0.002666667                     0.002666667
##   1                     0.000000000                     0.000000000
##    Ad.Topic.Line
## Y   Configurable mission-critical algorithm
##   0                           0.002666667
##   1                           0.000000000
##    Ad.Topic.Line
## Y   Configurable multi-state utilization
##   0                         0.002666667
##   1                         0.000000000
##    Ad.Topic.Line
## Y   Configurable tertiary budgetary management Cross-group global orchestration
##   0                                0.002666667                      0.002666667
##   1                                0.000000000                      0.000000000
##    Ad.Topic.Line
## Y   Cross-group human-resource time-frame Cross-group neutral synergy
##   0                          0.000000000                0.002666667
##   1                          0.002666667                0.000000000
##    Ad.Topic.Line
## Y   Cross-group non-volatile secured line Cross-group regional website
##   0                          0.002666667                 0.000000000
##   1                          0.000000000                 0.002666667
##    Ad.Topic.Line
## Y   Cross-group systemic customer loyalty Cross-group value-added success
##   0                          0.000000000                    0.000000000
##   1                          0.002666667                    0.002666667
##    Ad.Topic.Line
## Y   Cross-platform 4thgeneration focus group
##   0                           0.002666667
##   1                           0.000000000
##    Ad.Topic.Line
```

```
## Y   Cross-platform client-server hierarchy
##   0                             0.002666667
##   1                             0.000000000
##    Ad.Topic.Line
## Y   Cross-platform logistical pricing structure
##   0                                0.000000000
##   1                                0.002666667
##    Ad.Topic.Line
## Y   Cross-platform neutral system engine Cross-platform regional task-force
##   0                           0.000000000                          0.000000000
##   1                           0.002666667                          0.002666667
##    Ad.Topic.Line
## Y   Cross-platform zero-defect structure Customer-focused 24/7 concept
##   0                           0.000000000                   0.000000000
##   1                           0.002666667                   0.002666667
##    Ad.Topic.Line
## Y   Customer-focused attitude-oriented instruction set
##   0                                      0.002666667
##   1                                      0.000000000
##    Ad.Topic.Line
## Y   Customer-focused empowering ability Customer-focused explicit challenge
##   0                          0.002666667                          0.000000000
##   1                          0.000000000                          0.002666667
##    Ad.Topic.Line
## Y   Customer-focused impactful success
##   0                        0.002666667
##   1                        0.000000000
##    Ad.Topic.Line
## Y   Customer-focused incremental system engine
##   0                               0.000000000
##   1                               0.002666667
##    Ad.Topic.Line
## Y   Customer-focused multi-tasking Internet solution
##   0                                    0.000000000
##   1                                    0.002666667
##    Ad.Topic.Line
## Y   Customer-focused solution-oriented software
##   0                                 0.000000000
##   1                                 0.002666667
##    Ad.Topic.Line
## Y   Customer-focused system-worthy superstructure
##   0                                   0.002666667
##   1                                   0.000000000
##    Ad.Topic.Line
## Y   Customer-focused transitional strategy
##   0                             0.000000000
##   1                             0.002666667
##    Ad.Topic.Line
## Y   Customer-focused upward-trending contingency
##   0                                 0.000000000
##   1                                 0.002666667
##    Ad.Topic.Line
## Y   Customer-focused zero-defect process improvement
##   0                                     0.000000000
```

```
##   1                                       0.002666667
##    Ad.Topic.Line
## Y   Customizable executive software Customizable holistic archive
##   0                     0.000000000                   0.000000000
##   1                     0.002666667                   0.002666667
##    Ad.Topic.Line
## Y   Customizable homogeneous contingency
##   0                          0.000000000
##   1                          0.002666667
##    Ad.Topic.Line
## Y   Customizable methodical Graphical User Interface
##   0                                       0.002666667
##   1                                       0.000000000
##    Ad.Topic.Line
## Y   Customizable mission-critical adapter Customizable multi-tasking website
##   0                           0.002666667                         0.000000000
##   1                           0.000000000                         0.002666667
##    Ad.Topic.Line
## Y   Customizable systematic service-desk Customizable value-added project
##   0                          0.000000000                     0.002666667
##   1                          0.002666667                     0.000000000
##    Ad.Topic.Line
## Y   Customizable zero-defect Internet solution
##   0                                0.002666667
##   1                                0.000000000
##    Ad.Topic.Line
## Y   De-engineered actuating hierarchy
##   0                       0.000000000
##   1                       0.002666667
##    Ad.Topic.Line
## Y   De-engineered attitude-oriented projection
##   0                                0.002666667
##   1                                0.000000000
##    Ad.Topic.Line
## Y   De-engineered fault-tolerant database De-engineered intangible flexibility
##   0                           0.000000000                           0.002666667
##   1                           0.002666667                           0.000000000
##    Ad.Topic.Line
## Y   De-engineered mobile infrastructure De-engineered object-oriented protocol
##   0                         0.000000000                           0.000000000
##   1                         0.002666667                           0.002666667
##    Ad.Topic.Line
## Y   De-engineered solution-oriented open architecture
##   0                                      0.000000000
##   1                                      0.002666667
##    Ad.Topic.Line
## Y   De-engineered tertiary secured line Decentralized 24hour approach
##   0                         0.002666667                   0.002666667
##   1                         0.000000000                   0.000000000
##    Ad.Topic.Line
## Y   Decentralized bottom-line help-desk
##   0                         0.000000000
##   1                         0.002666667
##    Ad.Topic.Line
```

```
## Y   Decentralized client-driven data-warehouse
##   0                                0.000000000
##   1                                0.002666667
##    Ad.Topic.Line
## Y   Decentralized foreground infrastructure Decentralized methodical capability
##   0                             0.002666667                          0.002666667
##   1                             0.000000000                          0.000000000
##    Ad.Topic.Line
## Y   Decentralized needs-based analyzer Decentralized real-time circuit
##   0                         0.002666667                     0.000000000
##   1                         0.000000000                     0.002666667
##    Ad.Topic.Line
## Y   Devolved human-resource circuit Devolved regional moderator
##   0                      0.000000000                0.002666667
##   1                      0.002666667                0.000000000
##    Ad.Topic.Line
## Y   Devolved responsive structure Devolved zero administration intranet
##   0                    0.000000000                            0.000000000
##   1                    0.002666667                            0.002666667
##    Ad.Topic.Line
## Y   Digitized content-based circuit Digitized disintermediate ability
##   0                      0.000000000                       0.000000000
##   1                      0.002666667                       0.002666667
##    Ad.Topic.Line
## Y   Digitized radical architecture Digitized radical array
##   0                     0.000000000            0.000000000
##   1                     0.002666667            0.002666667
##    Ad.Topic.Line
## Y   Digitized static capability Digitized zero-defect implementation
##   0                 0.002666667                           0.002666667
##   1                 0.000000000                           0.000000000
##    Ad.Topic.Line
## Y   Digitized zero administration paradigm Distributed 3rdgeneration definition
##   0                             0.002666667                          0.000000000
##   1                             0.000000000                          0.002666667
##    Ad.Topic.Line
## Y   Distributed bifurcated challenge Distributed cohesive migration
##   0                       0.002666667                    0.002666667
##   1                       0.000000000                    0.000000000
##    Ad.Topic.Line
## Y   Distributed fault-tolerant service-desk
##   0                             0.002666667
##   1                             0.000000000
##    Ad.Topic.Line
## Y   Distributed leadingedge orchestration Distributed maximized ability
##   0                           0.002666667                    0.000000000
##   1                           0.000000000                    0.002666667
##    Ad.Topic.Line
## Y   Distributed scalable orchestration Distributed tertiary system engine
##   0                         0.002666667                          0.002666667
##   1                         0.000000000                          0.000000000
##    Ad.Topic.Line
## Y   Diverse background ability Diverse executive groupware
##   0                0.000000000                0.000000000
```

```
##   1                0.002666667                 0.002666667
##    Ad.Topic.Line
## Y   Diverse multi-tasking parallelism Down-sized background groupware
##   0                       0.002666667                     0.000000000
##   1                       0.000000000                     0.002666667
##    Ad.Topic.Line
## Y   Down-sized bandwidth-monitored core
##   0                         0.002666667
##   1                         0.000000000
##    Ad.Topic.Line
## Y   Down-sized explicit budgetary management Down-sized modular intranet
##   0                              0.002666667                0.000000000
##   1                              0.000000000                0.002666667
##    Ad.Topic.Line
## Y   Down-sized well-modulated archive Enhanced asymmetric installation
##   0                       0.000000000                      0.002666667
##   1                       0.002666667                      0.000000000
##    Ad.Topic.Line
## Y   Enhanced dedicated support Enhanced homogeneous moderator
##   0                0.002666667                   0.000000000
##   1                0.000000000                   0.002666667
##    Ad.Topic.Line
## Y   Enhanced intangible portal Enhanced intermediate standardization
##   0                0.000000000                           0.000000000
##   1                0.002666667                           0.002666667
##    Ad.Topic.Line
## Y   Enhanced optimizing website Enhanced system-worthy toolset
##   0                 0.000000000                  0.002666667
##   1                 0.002666667                  0.000000000
##    Ad.Topic.Line
## Y   Enhanced systematic adapter Enhanced systemic benchmark
##   0                 0.002666667                0.002666667
##   1                 0.000000000                0.000000000
##    Ad.Topic.Line
## Y   Enhanced tertiary utilization Enterprise-wide bi-directional secured line
##   0                   0.000000000                                   0.002666667
##   1                   0.002666667                                   0.000000000
##    Ad.Topic.Line
## Y   Enterprise-wide client-driven contingency
##   0                              0.000000000
##   1                              0.002666667
##    Ad.Topic.Line
## Y   Enterprise-wide foreground emulation
##   0                          0.000000000
##   1                          0.002666667
##    Ad.Topic.Line
## Y   Enterprise-wide incremental Internet solution
##   0                                  0.000000000
##   1                                  0.002666667
##    Ad.Topic.Line
## Y   Enterprise-wide tangible model Ergonomic 24/7 solution
##   0                    0.000000000            0.002666667
##   1                    0.002666667            0.000000000
##    Ad.Topic.Line
```

```
## Y   Ergonomic client-driven application Ergonomic empowering frame
##   0                          0.002666667               0.000000000
##   1                          0.000000000               0.002666667
##    Ad.Topic.Line
## Y   Ergonomic full-range time-frame Ergonomic multi-state structure
##   0                     0.000000000                     0.002666667
##   1                     0.002666667                     0.000000000
##    Ad.Topic.Line
## Y   Ergonomic neutral portal Ergonomic zero tolerance encoding
##   0              0.002666667                       0.000000000
##   1              0.000000000                       0.002666667
##    Ad.Topic.Line
## Y   Exclusive cohesive intranet Exclusive even-keeled moratorium
##   0                 0.000000000                     0.000000000
##   1                 0.002666667                     0.002666667
##    Ad.Topic.Line
## Y   Exclusive multi-state Internet solution Exclusive neutral parallelism
##   0                            0.002666667                  0.000000000
##   1                            0.000000000                  0.002666667
##    Ad.Topic.Line
## Y   Exclusive systematic algorithm Exclusive zero tolerance frame
##   0                    0.000000000                    0.000000000
##   1                    0.002666667                    0.002666667
##    Ad.Topic.Line
## Y   Expanded clear-thinking core Expanded full-range synergy
##   0                  0.002666667                0.000000000
##   1                  0.000000000                0.002666667
##    Ad.Topic.Line
## Y   Expanded intangible solution Expanded modular application
##   0                  0.000000000                 0.000000000
##   1                  0.002666667                 0.002666667
##    Ad.Topic.Line
## Y   Expanded radical software Expanded value-added emulation
##   0               0.002666667                   0.000000000
##   1               0.000000000                   0.002666667
##    Ad.Topic.Line
## Y   Expanded zero administration attitude Extended analyzing emulation
##   0                           0.000000000                 0.000000000
##   1                           0.002666667                 0.002666667
##    Ad.Topic.Line
## Y   Extended context-sensitive monitoring Extended grid-enabled hierarchy
##   0                           0.000000000                    0.002666667
##   1                           0.002666667                    0.000000000
##    Ad.Topic.Line
## Y   Extended leadingedge solution Extended local methodology
##   0                   0.000000000               0.002666667
##   1                   0.002666667               0.000000000
##    Ad.Topic.Line
## Y   Extended systemic policy Face-to-face analyzing encryption
##   0              0.002666667                     0.002666667
##   1              0.000000000                     0.000000000
##    Ad.Topic.Line
## Y   Face-to-face dedicated flexibility Face-to-face even-keeled website
##   0                        0.000000000                    0.000000000
```

```
##   1                        0.002666667                       0.002666667
##    Ad.Topic.Line
## Y   Face-to-face executive encryption Face-to-face intermediate approach
##   0                       0.002666667                        0.002666667
##   1                       0.000000000                        0.000000000
##    Ad.Topic.Line
## Y   Face-to-face mission-critical definition
##   0                            0.002666667
##   1                            0.000000000
##    Ad.Topic.Line
## Y   Face-to-face modular budgetary management Face-to-face multimedia success
##   0                             0.000000000                     0.002666667
##   1                             0.002666667                     0.000000000
##    Ad.Topic.Line
## Y   Face-to-face reciprocal methodology Face-to-face responsive alliance
##   0                         0.000000000                       0.002666667
##   1                         0.002666667                       0.000000000
##    Ad.Topic.Line
## Y   Focused 24hour implementation Focused 3rdgeneration pricing structure
##   0                  0.002666667                              0.000000000
##   1                  0.000000000                              0.002666667
##    Ad.Topic.Line
## Y   Focused coherent success Focused high-level conglomeration
##   0             0.002666667                      0.002666667
##   1             0.000000000                      0.000000000
##    Ad.Topic.Line
## Y   Focused incremental Graphic Interface Focused multi-state workforce
##   0                          0.000000000                  0.002666667
##   1                          0.002666667                  0.000000000
##    Ad.Topic.Line
## Y   Focused multimedia implementation Focused scalable complexity
##   0                       0.000000000                0.002666667
##   1                       0.002666667                0.000000000
##    Ad.Topic.Line
## Y   Focused systemic benchmark Focused web-enabled Graphical User Interface
##   0               0.000000000                                    0.002666667
##   1               0.002666667                                    0.000000000
##    Ad.Topic.Line
## Y   Front-line actuating functionalities
##   0                          0.000000000
##   1                          0.002666667
##    Ad.Topic.Line
## Y   Front-line bandwidth-monitored capacity Front-line even-keeled website
##   0                            0.002666667                     0.002666667
##   1                            0.000000000                     0.000000000
##    Ad.Topic.Line
## Y   Front-line fault-tolerant intranet Front-line fresh-thinking installation
##   0                       0.000000000                            0.000000000
##   1                       0.002666667                            0.002666667
##    Ad.Topic.Line
## Y   Front-line fresh-thinking open system Front-line heuristic data-warehouse
##   0                          0.002666667                          0.002666667
##   1                          0.000000000                          0.000000000
##    Ad.Topic.Line
```

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## Y   Front-line incremental access Front-line intermediate database
##   0                   0.002666667                       0.002666667
##   1                   0.000000000                       0.000000000
##    Ad.Topic.Line
## Y   Front-line methodical utilization Front-line multi-state hub
##   0                       0.000000000                0.002666667
##   1                       0.002666667                0.000000000
##    Ad.Topic.Line
## Y   Front-line neutral alliance Front-line non-volatile implementation
##   0                 0.000000000                              0.002666667
##   1                 0.002666667                              0.000000000
##    Ad.Topic.Line
## Y   Front-line system-worthy flexibility Front-line systemic capability
##   0                          0.002666667                    0.002666667
##   1                          0.000000000                    0.000000000
##    Ad.Topic.Line
## Y   Front-line tangible alliance Front-line upward-trending groupware
##   0                  0.000000000                           0.000000000
##   1                  0.002666667                           0.002666667
##    Ad.Topic.Line
## Y   Front-line zero-defect array Fully-configurable 5thgeneration circuit
##   0                  0.000000000                                0.000000000
##   1                  0.002666667                                0.002666667
##    Ad.Topic.Line
## Y   Fully-configurable asynchronous firmware
##   0                             0.000000000
##   1                             0.002666667
##    Ad.Topic.Line
## Y   Fully-configurable clear-thinking throughput
##   0                                  0.000000000
##   1                                  0.002666667
##    Ad.Topic.Line
## Y   Fully-configurable client-driven customer loyalty
##   0                                       0.000000000
##   1                                       0.002666667
##    Ad.Topic.Line
## Y   Fully-configurable context-sensitive Graphic Interface
##   0                                            0.000000000
##   1                                            0.002666667
##    Ad.Topic.Line
## Y   Fully-configurable eco-centric frame
##   0                          0.002666667
##   1                          0.000000000
##    Ad.Topic.Line
## Y   Fully-configurable high-level implementation
##   0                                  0.000000000
##   1                                  0.002666667
##    Ad.Topic.Line
## Y   Fully-configurable holistic throughput
##   0                            0.000000000
##   1                            0.002666667
##    Ad.Topic.Line
## Y   Fully-configurable neutral open system
##   0                            0.000000000
```

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##   1                            0.002666667
##    Ad.Topic.Line
## Y   Fully-configurable systemic productivity
##   0                             0.002666667
##   1                             0.000000000
##    Ad.Topic.Line
## Y   Function-based directional productivity Function-based fault-tolerant model
##   0                            0.002666667                           0.002666667
##   1                            0.000000000                           0.000000000
##    Ad.Topic.Line
## Y   Function-based incremental standardization
##   0                               0.002666667
##   1                               0.000000000
##    Ad.Topic.Line
## Y   Function-based optimizing extranet Function-based optimizing protocol
##   0                        0.002666667                         0.000000000
##   1                        0.000000000                         0.002666667
##    Ad.Topic.Line
## Y   Function-based stable alliance Function-based transitional complexity
##   0                     0.000000000                           0.002666667
##   1                     0.002666667                           0.000000000
##    Ad.Topic.Line
## Y   Fundamental clear-thinking knowledgebase
##   0                             0.002666667
##   1                             0.000000000
##    Ad.Topic.Line
## Y   Fundamental fault-tolerant neural-net Fundamental methodical support
##   0                           0.000000000                   0.000000000
##   1                           0.002666667                   0.002666667
##    Ad.Topic.Line
## Y   Fundamental modular algorithm Fundamental zero tolerance solution
##   0                    0.000000000                          0.002666667
##   1                    0.002666667                          0.000000000
##    Ad.Topic.Line
## Y   Future-proofed coherent hardware
##   0                      0.000000000
##   1                      0.002666667
##    Ad.Topic.Line
## Y   Future-proofed fresh-thinking conglomeration
##   0                                 0.000000000
##   1                                 0.002666667
##    Ad.Topic.Line
## Y   Future-proofed holistic superstructure Future-proofed methodical protocol
##   0                           0.000000000                         0.002666667
##   1                           0.002666667                         0.000000000
##    Ad.Topic.Line
## Y   Future-proofed responsive matrix Grass-roots 4thgeneration forecast
##   0                      0.002666667                       0.002666667
##   1                      0.000000000                       0.000000000
##    Ad.Topic.Line
## Y   Grass-roots cohesive monitoring Grass-roots eco-centric instruction set
##   0                     0.000000000                                0.002666667
##   1                     0.002666667                                0.000000000
##    Ad.Topic.Line
```

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## Y   Grass-roots impactful system engine Grass-roots mission-critical emulation
##   0                          0.002666667                              0.000000000
##   1                          0.000000000                              0.002666667
##    Ad.Topic.Line
## Y   Grass-roots systematic hardware Grass-roots transitional flexibility
##   0                     0.002666667                         0.000000000
##   1                     0.000000000                         0.002666667
##    Ad.Topic.Line
## Y   Horizontal even-keeled challenge Horizontal high-level concept
##   0                      0.002666667                   0.000000000
##   1                      0.000000000                   0.002666667
##    Ad.Topic.Line
## Y   Horizontal hybrid challenge Horizontal incremental website
##   0                 0.000000000                   0.000000000
##   1                 0.002666667                   0.002666667
##    Ad.Topic.Line
## Y   Horizontal national architecture Horizontal transitional challenge
##   0                      0.000000000                       0.002666667
##   1                      0.002666667                       0.000000000
##    Ad.Topic.Line
## Y   Implemented asynchronous application Implemented bifurcated workforce
##   0                          0.000000000                     0.002666667
##   1                          0.002666667                     0.000000000
##    Ad.Topic.Line
## Y   Implemented bottom-line implementation
##   0                            0.002666667
##   1                            0.000000000
##    Ad.Topic.Line
## Y   Implemented context-sensitive Local Area Network
##   0                                     0.000000000
##   1                                     0.002666667
##    Ad.Topic.Line
## Y   Implemented disintermediate attitude Implemented uniform synergy
##   0                          0.002666667                0.000000000
##   1                          0.000000000                0.002666667
##    Ad.Topic.Line
## Y   Innovative background conglomeration Innovative cohesive pricing structure
##   0                          0.002666667                            0.000000000
##   1                          0.000000000                            0.002666667
##    Ad.Topic.Line
## Y   Innovative interactive portal Innovative regional groupware
##   0                  0.000000000                  0.002666667
##   1                  0.002666667                  0.000000000
##    Ad.Topic.Line
## Y   Innovative regional structure Innovative user-facing extranet
##   0                  0.000000000                    0.002666667
##   1                  0.002666667                    0.000000000
##    Ad.Topic.Line
## Y   Integrated client-server definition Integrated coherent pricing structure
##   0                          0.002666667                           0.000000000
##   1                          0.000000000                           0.002666667
##    Ad.Topic.Line
## Y   Integrated encompassing support
##   0                     0.000000000
```

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##   1                     0.002666667
##    Ad.Topic.Line
## Y   Integrated grid-enabled budgetary management
##   0                                 0.002666667
##   1                                 0.000000000
##    Ad.Topic.Line
## Y   Integrated human-resource encoding Integrated impactful groupware
##   0                       0.000000000                    0.000000000
##   1                       0.002666667                    0.002666667
##    Ad.Topic.Line
## Y   Integrated interactive support Integrated maximized service-desk
##   0                     0.000000000                     0.000000000
##   1                     0.002666667                     0.002666667
##    Ad.Topic.Line
## Y   Integrated motivating neural-net Intuitive dynamic attitude
##   0                      0.002666667               0.002666667
##   1                      0.000000000               0.000000000
##    Ad.Topic.Line
## Y   Intuitive explicit conglomeration Intuitive explicit firmware
##   0                       0.002666667                0.002666667
##   1                       0.000000000                0.000000000
##    Ad.Topic.Line
## Y   Intuitive fresh-thinking moderator Intuitive global website
##   0                       0.002666667             0.000000000
##   1                       0.000000000             0.002666667
##    Ad.Topic.Line
## Y   Intuitive modular system engine Intuitive radical forecast
##   0                     0.002666667               0.002666667
##   1                     0.000000000               0.000000000
##    Ad.Topic.Line
## Y   Intuitive transitional artificial intelligence
##   0                                   0.000000000
##   1                                   0.002666667
##    Ad.Topic.Line
## Y   Intuitive zero-defect framework Intuitive zero administration adapter
##   0                     0.000000000                           0.002666667
##   1                     0.002666667                           0.000000000
##    Ad.Topic.Line
## Y   Inverse asymmetric instruction set Inverse bi-directional knowledge user
##   0                       0.002666667                          0.002666667
##   1                       0.000000000                          0.000000000
##    Ad.Topic.Line
## Y   Inverse discrete extranet Inverse high-level capability Inverse local hub
##   0               0.000000000                  0.002666667       0.002666667
##   1               0.002666667                  0.000000000       0.000000000
##    Ad.Topic.Line
## Y   Inverse next generation moratorium Inverse stable synergy
##   0                       0.002666667           0.000000000
##   1                       0.000000000           0.002666667
##    Ad.Topic.Line
## Y   Inverse zero-defect capability Inverse zero tolerance customer loyalty
##   0                     0.002666667                           0.000000000
##   1                     0.000000000                           0.002666667
##    Ad.Topic.Line
```

```
## Y   Managed 24hour analyzer Managed 6thgeneration hierarchy
##   0             0.000000000                     0.002666667
##   1             0.002666667                     0.000000000
##    Ad.Topic.Line
## Y   Managed client-server access Managed didactic flexibility
##   0                  0.000000000                  0.000000000
##   1                  0.002666667                  0.002666667
##    Ad.Topic.Line
## Y   Managed disintermediate matrices Managed grid-enabled standardization
##   0                      0.000000000                          0.000000000
##   1                      0.002666667                          0.002666667
##    Ad.Topic.Line
## Y   Managed impactful definition Managed national hardware
##   0                  0.002666667              0.002666667
##   1                  0.000000000              0.000000000
##    Ad.Topic.Line
## Y   Managed well-modulated collaboration Managed zero tolerance concept
##   0                         0.000000000                   0.002666667
##   1                         0.002666667                   0.000000000
##    Ad.Topic.Line
## Y   Mandatory 4thgeneration structure Mandatory coherent groupware
##   0                       0.000000000                 0.002666667
##   1                       0.002666667                 0.000000000
##    Ad.Topic.Line
## Y   Mandatory disintermediate info-mediaries Mandatory homogeneous architecture
##   0                            0.000000000                         0.002666667
##   1                            0.002666667                         0.000000000
##    Ad.Topic.Line
## Y   Monitored 24/7 moratorium Monitored content-based implementation
##   0              0.002666667                            0.002666667
##   1              0.000000000                            0.000000000
##    Ad.Topic.Line
## Y   Monitored context-sensitive initiative Monitored dynamic instruction set
##   0                           0.002666667                       0.002666667
##   1                           0.000000000                       0.000000000
##    Ad.Topic.Line
## Y   Monitored executive architecture Monitored explicit hierarchy
##   0                      0.002666667                 0.002666667
##   1                      0.000000000                 0.000000000
##    Ad.Topic.Line
## Y   Monitored homogeneous artificial intelligence
##   0                                  0.000000000
##   1                                  0.002666667
##    Ad.Topic.Line
## Y   Monitored intermediate circuit Monitored local Internet solution
##   0                    0.002666667                       0.002666667
##   1                    0.000000000                       0.000000000
##    Ad.Topic.Line
## Y   Monitored real-time superstructure Monitored systematic hierarchy
##   0                        0.000000000                  0.000000000
##   1                        0.002666667                  0.002666667
##    Ad.Topic.Line
## Y   Monitored zero administration collaboration
##   0                                0.000000000
```

```
##   1                                  0.002666667
##    Ad.Topic.Line
## Y   Multi-channeled 3rdgeneration model Multi-channeled asymmetric installation
##   0                          0.002666667                                0.002666667
##   1                          0.000000000                                0.000000000
##    Ad.Topic.Line
## Y   Multi-channeled asynchronous open system
##   0                               0.002666667
##   1                               0.000000000
##    Ad.Topic.Line
## Y   Multi-channeled attitude-oriented toolset
##   0                                0.002666667
##   1                                0.000000000
##    Ad.Topic.Line
## Y   Multi-channeled mission-critical success
##   0                               0.000000000
##   1                               0.002666667
##    Ad.Topic.Line
## Y   Multi-channeled non-volatile website
##   0                           0.000000000
##   1                           0.002666667
##    Ad.Topic.Line
## Y   Multi-channeled reciprocal artificial intelligence
##   0                                        0.002666667
##   1                                        0.000000000
##    Ad.Topic.Line
## Y   Multi-channeled scalable moratorium Multi-lateral 24/7 Internet solution
##   0                          0.002666667                            0.002666667
##   1                          0.000000000                            0.000000000
##    Ad.Topic.Line
## Y   Multi-lateral attitude-oriented adapter Multi-lateral empowering throughput
##   0                               0.000000000                           0.002666667
##   1                               0.002666667                           0.000000000
##    Ad.Topic.Line
## Y   Multi-lateral motivating circuit Multi-lateral multi-state encryption
##   0                       0.002666667                             0.002666667
##   1                       0.000000000                             0.000000000
##    Ad.Topic.Line
## Y   Multi-layered fresh-thinking neural-net
##   0                               0.002666667
##   1                               0.000000000
##    Ad.Topic.Line
## Y   Multi-layered fresh-thinking process improvement
##   0                                       0.002666667
##   1                                       0.000000000
##    Ad.Topic.Line
## Y   Multi-layered stable encoding Multi-layered user-facing paradigm
##   0                     0.002666667                          0.000000000
##   1                     0.000000000                          0.002666667
##    Ad.Topic.Line
## Y   Multi-layered user-facing parallelism
##   0                             0.000000000
##   1                             0.002666667
##    Ad.Topic.Line
```

```
## Y   Multi-tiered foreground Graphic Interface
##   0                               0.002666667
##   1                               0.000000000
##    Ad.Topic.Line
## Y   Multi-tiered human-resource structure Multi-tiered maximized archive
##   0                           0.002666667                   0.000000000
##   1                           0.000000000                   0.002666667
##    Ad.Topic.Line
## Y   Multi-tiered mobile encoding Multi-tiered multi-state moderator
##   0                  0.000000000                         0.002666667
##   1                  0.002666667                         0.000000000
##    Ad.Topic.Line
## Y   Multi-tiered real-time implementation Multi-tiered stable leverage
##   0                           0.002666667                 0.000000000
##   1                           0.000000000                 0.002666667
##    Ad.Topic.Line
## Y   Networked asymmetric infrastructure Networked client-server solution
##   0                         0.000000000                     0.000000000
##   1                         0.002666667                     0.002666667
##    Ad.Topic.Line
## Y   Networked coherent interface Networked even-keeled workforce
##   0                  0.002666667                    0.000000000
##   1                  0.000000000                    0.002666667
##    Ad.Topic.Line
## Y   Networked foreground definition Networked high-level structure
##   0                     0.002666667                   0.002666667
##   1                     0.000000000                   0.000000000
##    Ad.Topic.Line
## Y   Networked impactful framework Networked local secured line
##   0                   0.002666667                 0.000000000
##   1                   0.000000000                 0.002666667
##    Ad.Topic.Line
## Y   Networked logistical info-mediaries Networked non-volatile synergy
##   0                         0.000000000                   0.000000000
##   1                         0.002666667                   0.002666667
##    Ad.Topic.Line
## Y   Networked regional Local Area Network Networked responsive application
##   0                           0.002666667                     0.002666667
##   1                           0.000000000                     0.000000000
##    Ad.Topic.Line
## Y   Networked stable array Networked stable open architecture
##   0            0.000000000                       0.002666667
##   1            0.002666667                       0.000000000
##    Ad.Topic.Line
## Y   Object-based executive productivity Object-based leadingedge complexity
##   0                         0.002666667                         0.002666667
##   1                         0.000000000                         0.000000000
##    Ad.Topic.Line
## Y   Object-based modular functionalities
##   0                          0.000000000
##   1                          0.002666667
##    Ad.Topic.Line
## Y   Object-based motivating instruction set
##   0                            0.000000000
```

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##   1                              0.002666667
##    Ad.Topic.Line
## Y   Object-based system-worthy superstructure
##   0                                0.000000000
##   1                                0.002666667
##    Ad.Topic.Line
## Y   Open-architected full-range projection
##   0                              0.000000000
##   1                              0.002666667
##    Ad.Topic.Line
## Y   Open-architected impactful productivity
##   0                               0.000000000
##   1                               0.002666667
##    Ad.Topic.Line
## Y   Open-architected intangible strategy Open-architected system-worthy ability
##   0                            0.002666667                              0.002666667
##   1                            0.000000000                              0.000000000
##    Ad.Topic.Line
## Y   Open-architected system-worthy task-force
##   0                                0.002666667
##   1                                0.000000000
##    Ad.Topic.Line
## Y   Open-architected web-enabled benchmark
##   0                              0.002666667
##   1                              0.000000000
##    Ad.Topic.Line
## Y   Open-architected zero administration secured line
##   0                                        0.002666667
##   1                                        0.000000000
##    Ad.Topic.Line
## Y   Open-source 5thgeneration leverage Open-source coherent monitoring
##   0                          0.000000000                     0.002666667
##   1                          0.002666667                     0.000000000
##    Ad.Topic.Line
## Y   Open-source coherent policy Open-source even-keeled database
##   0                  0.000000000                       0.000000000
##   1                  0.002666667                       0.002666667
##    Ad.Topic.Line
## Y   Open-source holistic productivity Open-source local approach
##   0                         0.002666667                0.000000000
##   1                         0.000000000                0.002666667
##    Ad.Topic.Line
## Y   Open-source optimizing parallelism Open-source scalable protocol
##   0                          0.002666667                    0.002666667
##   1                          0.000000000                    0.000000000
##    Ad.Topic.Line
## Y   Open-source stable paradigm Operative actuating installation
##   0                  0.000000000                       0.000000000
##   1                  0.002666667                       0.002666667
##    Ad.Topic.Line
## Y   Operative didactic Local Area Network Operative full-range forecast
##   0                             0.000000000                     0.000000000
##   1                             0.002666667                     0.002666667
##    Ad.Topic.Line
```

```
## Y   Operative multi-tasking Graphic Interface Operative system-worthy protocol
##   0                                0.000000000                       0.002666667
##   1                                0.002666667                       0.000000000
##    Ad.Topic.Line
## Y   Optimized 5thgeneration moratorium Optimized intermediate help-desk
##   0                         0.002666667                     0.000000000
##   1                         0.000000000                     0.002666667
##    Ad.Topic.Line
## Y   Optimized static archive Optimized systemic capability
##   0              0.002666667                   0.000000000
##   1              0.000000000                   0.002666667
##    Ad.Topic.Line
## Y   Optimized upward-trending productivity
##   0                            0.000000000
##   1                            0.002666667
##    Ad.Topic.Line
## Y   Optional contextually-based flexibility Optional full-range projection
##   0                             0.002666667                    0.000000000
##   1                             0.000000000                    0.002666667
##    Ad.Topic.Line
## Y   Optional mission-critical functionalities Optional regional throughput
##   0                                0.000000000                  0.002666667
##   1                                0.002666667                  0.000000000
##    Ad.Topic.Line
## Y   Optional secondary access Optional tangible productivity
##   0               0.000000000                    0.000000000
##   1               0.002666667                    0.002666667
##    Ad.Topic.Line
## Y   Organic 3rdgeneration encryption Organic asynchronous hierarchy
##   0                       0.002666667                     0.000000000
##   1                       0.000000000                     0.002666667
##    Ad.Topic.Line
## Y   Organic interactive support Organic leadingedge secured line
##   0                 0.000000000                       0.000000000
##   1                 0.002666667                       0.002666667
##    Ad.Topic.Line
## Y   Organic motivating model Organic next generation matrix
##   0              0.002666667                    0.000000000
##   1              0.000000000                    0.002666667
##    Ad.Topic.Line
## Y   Organized 24/7 middleware Organized client-driven alliance
##   0               0.000000000                      0.000000000
##   1               0.002666667                      0.002666667
##    Ad.Topic.Line
## Y   Organized contextually-based customer loyalty
##   0                                   0.000000000
##   1                                   0.002666667
##    Ad.Topic.Line
## Y   Organized demand-driven knowledgebase Organized empowering policy
##   0                            0.002666667                 0.002666667
##   1                            0.000000000                 0.000000000
##    Ad.Topic.Line
## Y   Organized global flexibility Organized global model
##   0                  0.002666667            0.000000000
```

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##   1                  0.000000000            0.002666667
##    Ad.Topic.Line
## Y   Organized static focus group Persevering eco-centric flexibility
##   0                  0.002666667                          0.002666667
##   1                  0.000000000                          0.000000000
##    Ad.Topic.Line
## Y   Persevering even-keeled help-desk Persevering exuding system engine
##   0                       0.002666667                       0.002666667
##   1                       0.000000000                       0.000000000
##    Ad.Topic.Line
## Y   Persevering reciprocal firmware Persistent demand-driven interface
##   0                     0.000000000                         0.000000000
##   1                     0.002666667                         0.002666667
##    Ad.Topic.Line
## Y   Persistent even-keeled application Persistent homogeneous framework
##   0                       0.002666667                       0.002666667
##   1                       0.000000000                       0.000000000
##    Ad.Topic.Line
## Y   Phased 5thgeneration open system Phased clear-thinking encoding
##   0                      0.002666667                     0.000000000
##   1                      0.000000000                     0.002666667
##    Ad.Topic.Line
## Y   Phased content-based middleware Phased dynamic customer loyalty
##   0                     0.002666667                     0.000000000
##   1                     0.000000000                     0.002666667
##    Ad.Topic.Line
## Y   Phased fault-tolerant definition Phased full-range hardware
##   0                      0.002666667               0.000000000
##   1                      0.000000000               0.002666667
##    Ad.Topic.Line
## Y   Phased hybrid intranet Phased hybrid superstructure
##   0            0.002666667                0.000000000
##   1            0.000000000                0.002666667
##    Ad.Topic.Line
## Y   Phased leadingedge budgetary management Phased transitional instruction set
##   0                            0.000000000                          0.000000000
##   1                            0.002666667                          0.002666667
##    Ad.Topic.Line
## Y   Phased zero-defect portal Phased zero administration success
##   0               0.000000000                       0.002666667
##   1               0.002666667                       0.000000000
##    Ad.Topic.Line
## Y   Phased zero tolerance extranet Polarized 5thgeneration matrix
##   0                    0.002666667                    0.000000000
##   1                    0.000000000                    0.002666667
##    Ad.Topic.Line
## Y   Polarized analyzing concept Polarized attitude-oriented superstructure
##   0                 0.002666667                                0.002666667
##   1                 0.000000000                                0.000000000
##    Ad.Topic.Line
## Y   Polarized bandwidth-monitored moratorium Polarized bifurcated array
##   0                             0.002666667               0.000000000
##   1                             0.000000000               0.002666667
##    Ad.Topic.Line
```

```
## Y   Polarized clear-thinking budgetary management Polarized intangible encoding
##   0                                  0.000000000                   0.000000000
##   1                                  0.002666667                   0.002666667
##    Ad.Topic.Line
## Y   Polarized logistical hub Polarized multimedia system engine
##   0              0.002666667                       0.002666667
##   1              0.000000000                       0.000000000
##    Ad.Topic.Line
## Y   Polarized tangible collaboration Pre-emptive client-driven secured line
##   0                      0.000000000                            0.002666667
##   1                      0.002666667                            0.000000000
##    Ad.Topic.Line
## Y   Pre-emptive client-server installation
##   0                           0.002666667
##   1                           0.000000000
##    Ad.Topic.Line
## Y   Pre-emptive cohesive budgetary management
##   0                             0.000000000
##   1                             0.002666667
##    Ad.Topic.Line
## Y   Pre-emptive content-based focus group Pre-emptive neutral contingency
##   0                          0.000000000                    0.002666667
##   1                          0.002666667                    0.000000000
##    Ad.Topic.Line
## Y   Pre-emptive next generation Internet solution
##   0                                  0.002666667
##   1                                  0.000000000
##    Ad.Topic.Line
## Y   Pre-emptive next generation strategy
##   0                          0.002666667
##   1                          0.000000000
##    Ad.Topic.Line
## Y   Pre-emptive systematic budgetary management
##   0                                0.002666667
##   1                                0.000000000
##    Ad.Topic.Line
## Y   Pre-emptive well-modulated moderator
##   0                          0.002666667
##   1                          0.000000000
##    Ad.Topic.Line
## Y   Pre-emptive zero tolerance Local Area Network Proactive 5thgeneration frame
##   0                                  0.002666667                   0.002666667
##   1                                  0.000000000                   0.000000000
##    Ad.Topic.Line
## Y   Proactive actuating Graphical User Interface
##   0                                0.000000000
##   1                                0.002666667
##    Ad.Topic.Line
## Y   Proactive bandwidth-monitored policy Proactive client-server productivity
##   0                          0.002666667                           0.000000000
##   1                          0.000000000                           0.002666667
##    Ad.Topic.Line
## Y   Proactive context-sensitive project Proactive encompassing paradigm
##   0                         0.000000000                    0.000000000
```

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##   1                          0.002666667                      0.002666667
##    Ad.Topic.Line
## Y   Proactive interactive service-desk Proactive local focus group
##   0                         0.002666667                0.002666667
##   1                         0.000000000                0.000000000
##    Ad.Topic.Line
## Y   Proactive next generation knowledge user Proactive non-volatile encryption
##   0                              0.000000000                       0.000000000
##   1                              0.002666667                       0.002666667
##    Ad.Topic.Line
## Y   Proactive radical support Proactive secondary monitoring
##   0               0.000000000                   0.000000000
##   1               0.002666667                   0.002666667
##    Ad.Topic.Line
## Y   Profit-focused attitude-oriented task-force
##   0                                0.000000000
##   1                                0.002666667
##    Ad.Topic.Line
## Y   Profit-focused dedicated utilization Profit-focused secondary portal
##   0                          0.000000000                    0.002666667
##   1                          0.002666667                    0.000000000
##    Ad.Topic.Line
## Y   Profound bottom-line standardization Profound executive flexibility
##   0                          0.000000000                   0.002666667
##   1                          0.002666667                   0.000000000
##    Ad.Topic.Line
## Y   Profound maximized workforce Profound optimizing utilization
##   0                  0.002666667                    0.000000000
##   1                  0.000000000                    0.002666667
##    Ad.Topic.Line
## Y   Profound stable product Profound well-modulated array
##   0             0.000000000                  0.002666667
##   1             0.002666667                  0.000000000
##    Ad.Topic.Line
## Y   Profound zero administration instruction set
##   0                                0.002666667
##   1                                0.000000000
##    Ad.Topic.Line
## Y   Programmable asymmetric data-warehouse Programmable didactic capacity
##   0                            0.002666667                   0.000000000
##   1                            0.000000000                   0.002666667
##    Ad.Topic.Line
## Y   Programmable empowering orchestration Programmable high-level benchmark
##   0                           0.000000000                      0.002666667
##   1                           0.002666667                      0.000000000
##    Ad.Topic.Line
## Y   Programmable uniform productivity Programmable uniform website
##   0                       0.000000000                0.000000000
##   1                       0.002666667                0.002666667
##    Ad.Topic.Line
## Y   Progressive 24/7 definition Progressive 24hour forecast
##   0                 0.002666667                0.000000000
##   1                 0.000000000                0.002666667
##    Ad.Topic.Line
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## Y   Progressive analyzing attitude Progressive asynchronous adapter
##   0                     0.002666667                       0.002666667
##   1                     0.000000000                       0.000000000
##    Ad.Topic.Line
## Y   Progressive empowering alliance Progressive intermediate throughput
##   0                      0.002666667                          0.000000000
##   1                      0.000000000                          0.002666667
##    Ad.Topic.Line
## Y   Progressive uniform budgetary management Public-key asynchronous matrix
##   0                               0.000000000                     0.002666667
##   1                               0.002666667                     0.000000000
##    Ad.Topic.Line
## Y   Public-key bi-directional Graphical User Interface
##   0                                      0.000000000
##   1                                      0.002666667
##    Ad.Topic.Line
## Y   Public-key impactful neural-net Public-key mission-critical core
##   0                      0.002666667                       0.002666667
##   1                      0.000000000                       0.000000000
##    Ad.Topic.Line
## Y   Public-key non-volatile implementation Public-key real-time definition
##   0                             0.000000000                     0.000000000
##   1                             0.002666667                     0.002666667
##    Ad.Topic.Line
## Y   Public-key solution-oriented focus group Public-key zero-defect analyzer
##   0                               0.002666667                      0.002666667
##   1                               0.000000000                      0.000000000
##    Ad.Topic.Line
## Y   Quality-focused 5thgeneration orchestration
##   0                                  0.002666667
##   1                                  0.000000000
##    Ad.Topic.Line
## Y   Quality-focused bi-directional throughput Quality-focused hybrid frame
##   0                                0.002666667                   0.002666667
##   1                                0.000000000                   0.000000000
##    Ad.Topic.Line
## Y   Quality-focused maximized extranet Quality-focused scalable utilization
##   0                         0.000000000                           0.002666667
##   1                         0.002666667                           0.000000000
##    Ad.Topic.Line
## Y   Quality-focused zero-defect budgetary management
##   0                                     0.002666667
##   1                                     0.000000000
##    Ad.Topic.Line
## Y   Quality-focused zero-defect data-warehouse
##   0                                0.000000000
##   1                                0.002666667
##    Ad.Topic.Line
## Y   Re-contextualized human-resource success
##   0                               0.000000000
##   1                               0.002666667
##    Ad.Topic.Line
## Y   Re-contextualized optimal service-desk
##   0                             0.000000000
```

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##   1                            0.002666667
##    Ad.Topic.Line
## Y   Re-contextualized reciprocal interface
##   0                            0.000000000
##   1                            0.002666667
##    Ad.Topic.Line
## Y   Re-contextualized systemic time-frame Re-engineered composite moratorium
##   0                           0.002666667                       0.000000000
##   1                           0.000000000                       0.002666667
##    Ad.Topic.Line
## Y   Re-engineered demand-driven capacity Re-engineered impactful software
##   0                          0.000000000                      0.002666667
##   1                          0.002666667                      0.000000000
##    Ad.Topic.Line
## Y   Re-engineered non-volatile neural-net Re-engineered optimal policy
##   0                           0.000000000                0.000000000
##   1                           0.002666667                0.002666667
##    Ad.Topic.Line
## Y   Re-engineered real-time success Re-engineered zero-defect open architecture
##   0                     0.000000000                                  0.000000000
##   1                     0.002666667                                  0.002666667
##    Ad.Topic.Line
## Y   Reactive bi-directional standardization Reactive bi-directional workforce
##   0                            0.000000000                      0.002666667
##   1                            0.002666667                      0.000000000
##    Ad.Topic.Line
## Y   Reactive composite project Reactive demand-driven capacity
##   0               0.002666667                    0.002666667
##   1               0.000000000                    0.000000000
##    Ad.Topic.Line
## Y   Reactive demand-driven strategy Reactive impactful challenge
##   0                     0.000000000                0.000000000
##   1                     0.002666667                0.002666667
##    Ad.Topic.Line
## Y   Reactive interactive protocol Reactive local challenge
##   0                   0.002666667             0.000000000
##   1                   0.000000000             0.002666667
##    Ad.Topic.Line
## Y   Reactive national success Reactive needs-based instruction set
##   0              0.002666667                         0.002666667
##   1              0.000000000                         0.000000000
##    Ad.Topic.Line
## Y   Reactive tangible contingency Reactive upward-trending migration
##   0                   0.000000000                       0.000000000
##   1                   0.002666667                       0.002666667
##    Ad.Topic.Line
## Y   Realigned 24/7 core Realigned content-based leverage
##   0         0.000000000                    0.000000000
##   1         0.002666667                    0.002666667
##    Ad.Topic.Line
## Y   Realigned global initiative Realigned intangible benchmark
##   0                 0.002666667                    0.000000000
##   1                 0.000000000                    0.002666667
##    Ad.Topic.Line
```

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## Y   Realigned next generation projection Realigned scalable standardization
##   0                          0.002666667                         0.002666667
##   1                          0.000000000                         0.000000000
##    Ad.Topic.Line
## Y   Realigned systematic function Realigned zero tolerance emulation
##   0                   0.002666667                        0.000000000
##   1                   0.000000000                        0.002666667
##    Ad.Topic.Line
## Y   Reduced background data-warehouse Reduced bi-directional strategy
##   0                       0.000000000                     0.002666667
##   1                       0.002666667                     0.000000000
##    Ad.Topic.Line
## Y   Reduced incremental productivity Reduced mobile structure
##   0                      0.002666667              0.002666667
##   1                      0.000000000              0.000000000
##    Ad.Topic.Line
## Y   Reverse-engineered 24hour hardware
##   0                        0.000000000
##   1                        0.002666667
##    Ad.Topic.Line
## Y   Reverse-engineered content-based intranet
##   0                              0.002666667
##   1                              0.000000000
##    Ad.Topic.Line
## Y   Reverse-engineered context-sensitive emulation
##   0                                   0.000000000
##   1                                   0.002666667
##    Ad.Topic.Line
## Y   Reverse-engineered dynamic function
##   0                         0.002666667
##   1                         0.000000000
##    Ad.Topic.Line
## Y   Reverse-engineered maximized focus group Right-sized logistical middleware
##   0                             0.002666667                      0.002666667
##   1                             0.000000000                      0.000000000
##    Ad.Topic.Line
## Y   Right-sized multi-tasking solution Right-sized system-worthy project
##   0                        0.000000000                       0.000000000
##   1                        0.002666667                       0.002666667
##    Ad.Topic.Line
## Y   Right-sized transitional parallelism Right-sized value-added initiative
##   0                          0.002666667                      0.002666667
##   1                          0.000000000                      0.000000000
##    Ad.Topic.Line
## Y   Robust context-sensitive neural-net Robust dedicated system engine
##   0                        0.002666667                     0.002666667
##   1                        0.000000000                     0.000000000
##    Ad.Topic.Line
## Y   Robust logistical utilization Robust responsive collaboration
##   0                   0.002666667                    0.002666667
##   1                   0.000000000                    0.000000000
##    Ad.Topic.Line
## Y   Robust transitional ability Robust uniform framework
##   0                 0.002666667             0.002666667
```

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##   1                 0.000000000              0.000000000
##    Ad.Topic.Line
## Y   Robust web-enabled attitude Seamless 4thgeneration contingency
##   0                 0.000000000                          0.002666667
##   1                 0.002666667                          0.000000000
##    Ad.Topic.Line
## Y   Seamless cohesive conglomeration Seamless composite budgetary management
##   0                      0.000000000                               0.000000000
##   1                      0.002666667                               0.002666667
##    Ad.Topic.Line
## Y   Seamless full-range website Seamless holistic time-frame
##   0                 0.000000000                  0.002666667
##   1                 0.002666667                  0.000000000
##    Ad.Topic.Line
## Y   Seamless impactful info-mediaries Seamless intangible secured line
##   0                       0.002666667                       0.000000000
##   1                       0.000000000                       0.002666667
##    Ad.Topic.Line
## Y   Seamless motivating approach Seamless object-oriented structure
##   0                  0.000000000                          0.002666667
##   1                  0.002666667                          0.000000000
##    Ad.Topic.Line
## Y   Seamless optimal contingency Seamless real-time array Secured 24hour policy
##   0                  0.000000000              0.000000000           0.002666667
##   1                  0.002666667              0.002666667           0.000000000
##    Ad.Topic.Line
## Y   Secured clear-thinking middleware
##   0                       0.002666667
##   1                       0.000000000
##    Ad.Topic.Line
## Y   Secured encompassing Graphical User Interface Secured intermediate approach
##   0                                    0.000000000                   0.002666667
##   1                                    0.002666667                   0.000000000
##    Ad.Topic.Line
## Y   Secured scalable Graphical User Interface Secured secondary superstructure
##   0                                0.000000000                      0.002666667
##   1                                0.002666667                      0.000000000
##    Ad.Topic.Line
## Y   Secured uniform instruction set Secured upward-trending benchmark
##   0                     0.002666667                         0.002666667
##   1                     0.000000000                         0.000000000
##    Ad.Topic.Line
## Y   Self-enabling asynchronous knowledge user
##   0                                0.002666667
##   1                                0.000000000
##    Ad.Topic.Line
## Y   Self-enabling even-keeled methodology
##   0                           0.002666667
##   1                           0.000000000
##    Ad.Topic.Line
## Y   Self-enabling holistic process improvement
##   0                                 0.002666667
##   1                                 0.000000000
##    Ad.Topic.Line
```

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## Y   Self-enabling multimedia system engine Self-enabling optimal initiative
##   0                            0.000000000                       0.000000000
##   1                            0.002666667                       0.002666667
##    Ad.Topic.Line
## Y   Self-enabling tertiary challenge
##   0                     0.002666667
##   1                     0.000000000
##    Ad.Topic.Line
## Y   Self-enabling zero administration neural-net Sharable 5thgeneration access
##   0                                  0.000000000                   0.000000000
##   1                                  0.002666667                   0.002666667
##    Ad.Topic.Line
## Y   Sharable bottom-line solution Sharable dedicated Graphic Interface
##   0                   0.002666667                          0.000000000
##   1                   0.000000000                          0.002666667
##    Ad.Topic.Line
## Y   Sharable encompassing database Sharable grid-enabled matrix
##   0                    0.002666667                 0.000000000
##   1                    0.000000000                 0.002666667
##    Ad.Topic.Line
## Y   Sharable optimal capacity Sharable reciprocal project
##   0               0.000000000                0.000000000
##   1               0.002666667                0.002666667
##    Ad.Topic.Line
## Y   Sharable upward-trending support Sharable value-added solution
##   0                     0.002666667                  0.002666667
##   1                     0.000000000                  0.000000000
##    Ad.Topic.Line
## Y   Stand-alone background open system Stand-alone eco-centric system engine
##   0                       0.002666667                           0.000000000
##   1                       0.000000000                           0.002666667
##    Ad.Topic.Line
## Y   Stand-alone empowering benchmark Stand-alone explicit orchestration
##   0                     0.000000000                       0.002666667
##   1                     0.002666667                       0.000000000
##    Ad.Topic.Line
## Y   Stand-alone logistical service-desk Stand-alone motivating moratorium
##   0                        0.002666667                      0.000000000
##   1                        0.000000000                      0.002666667
##    Ad.Topic.Line
## Y   Stand-alone national attitude Stand-alone radical throughput
##   0                   0.002666667                  0.000000000
##   1                   0.000000000                  0.002666667
##    Ad.Topic.Line
## Y   Stand-alone reciprocal synergy Stand-alone tangible moderator
##   0                    0.000000000                   0.000000000
##   1                    0.002666667                   0.002666667
##    Ad.Topic.Line
## Y   Stand-alone well-modulated product Streamlined analyzing initiative
##   0                       0.000000000                      0.002666667
##   1                       0.002666667                      0.000000000
##    Ad.Topic.Line
## Y   Streamlined cohesive conglomeration Streamlined exuding adapter
##   0                        0.000000000                0.000000000
```

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##   1                          0.002666667                 0.002666667
##    Ad.Topic.Line
## Y   Streamlined logistical secured line
##   0                          0.000000000
##   1                          0.002666667
##    Ad.Topic.Line
## Y   Streamlined next generation implementation Switchable 3rdgeneration hub
##   0                                0.000000000                 0.002666667
##   1                                0.002666667                 0.000000000
##    Ad.Topic.Line
## Y   Switchable mobile framework Switchable real-time product
##   0                 0.002666667                 0.000000000
##   1                 0.000000000                 0.002666667
##    Ad.Topic.Line
## Y   Switchable well-modulated infrastructure Synchronized full-range portal
##   0                              0.002666667                   0.000000000
##   1                              0.000000000                   0.002666667
##    Ad.Topic.Line
## Y   Synchronized grid-enabled moratorium Synchronized human-resource moderator
##   0                          0.002666667                           0.002666667
##   1                          0.000000000                           0.000000000
##    Ad.Topic.Line
## Y   Synchronized leadingedge help-desk Synchronized multi-tasking ability
##   0                         0.000000000                         0.000000000
##   1                         0.002666667                         0.002666667
##    Ad.Topic.Line
## Y   Synchronized multimedia model Synchronized national infrastructure
##   0                   0.002666667                           0.002666667
##   1                   0.000000000                           0.000000000
##    Ad.Topic.Line
## Y   Synchronized stable complexity Synchronized systemic hierarchy
##   0                    0.002666667                    0.002666667
##   1                    0.000000000                    0.000000000
##    Ad.Topic.Line
## Y   Synchronized user-facing core Synchronized zero tolerance product
##   0                   0.000000000                         0.002666667
##   1                   0.002666667                         0.000000000
##    Ad.Topic.Line
## Y   Synergistic discrete middleware Synergistic dynamic orchestration
##   0                     0.002666667                       0.000000000
##   1                     0.000000000                       0.002666667
##    Ad.Topic.Line
## Y   Synergistic non-volatile analyzer Synergistic reciprocal attitude
##   0                       0.002666667                     0.000000000
##   1                       0.000000000                     0.002666667
##    Ad.Topic.Line
## Y   Synergized clear-thinking protocol Synergized cohesive array
##   0                        0.000000000              0.000000000
##   1                        0.002666667              0.002666667
##    Ad.Topic.Line
## Y   Synergized context-sensitive database Synergized grid-enabled framework
##   0                            0.000000000                       0.002666667
##   1                            0.002666667                       0.000000000
##    Ad.Topic.Line
```

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## Y   Synergized intangible open system Synergized multimedia emulation
##   0                       0.002666667                     0.000000000
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##    Ad.Topic.Line
## Y   Synergized well-modulated Graphical User Interface
##   0                                      0.002666667
##   1                                      0.000000000
##    Ad.Topic.Line
## Y   Team-oriented 6thgeneration extranet
##   0                          0.000000000
##   1                          0.002666667
##    Ad.Topic.Line
## Y   Team-oriented context-sensitive installation
##   0                                  0.002666667
##   1                                  0.000000000
##    Ad.Topic.Line
## Y   Team-oriented encompassing portal Team-oriented executive core
##   0                       0.000000000                 0.000000000
##   1                       0.002666667                 0.002666667
##    Ad.Topic.Line
## Y   Team-oriented grid-enabled Local Area Network
##   0                                   0.002666667
##   1                                   0.000000000
##    Ad.Topic.Line
## Y   Team-oriented high-level orchestration
##   0                            0.000000000
##   1                            0.002666667
##    Ad.Topic.Line
## Y   Team-oriented systematic installation
##   0                           0.000000000
##   1                           0.002666667
##    Ad.Topic.Line
## Y   Team-oriented transitional methodology Team-oriented zero-defect initiative
##   0                            0.000000000                          0.000000000
##   1                            0.002666667                          0.002666667
##    Ad.Topic.Line
## Y   Total 5thgeneration encoding Total 5thgeneration standardization
##   0                  0.002666667                         0.000000000
##   1                  0.000000000                         0.002666667
##    Ad.Topic.Line
## Y   Total bi-directional success Total coherent superstructure
##   0                  0.002666667                  0.002666667
##   1                  0.000000000                  0.000000000
##    Ad.Topic.Line
## Y   Total cohesive moratorium Total even-keeled architecture
##   0               0.002666667                   0.000000000
##   1               0.000000000                   0.002666667
##    Ad.Topic.Line
## Y   Total grid-enabled application Total human-resource flexibility
##   0                    0.002666667                     0.000000000
##   1                    0.000000000                     0.002666667
##    Ad.Topic.Line
## Y   Total zero administration software Triple-buffered 3rdgeneration migration
##   0                        0.002666667                           0.000000000
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##   1                         0.000000000                                0.002666667
##    Ad.Topic.Line
## Y   Triple-buffered demand-driven alliance
##   0                            0.002666667
##   1                            0.000000000
##    Ad.Topic.Line
## Y   Triple-buffered human-resource complexity
##   0                               0.002666667
##   1                               0.000000000
##    Ad.Topic.Line
## Y   Triple-buffered multi-state complexity
##   0                            0.000000000
##   1                            0.002666667
##    Ad.Topic.Line
## Y   Triple-buffered needs-based Local Area Network
##   0                                  0.002666667
##   1                                  0.000000000
##    Ad.Topic.Line
## Y   Triple-buffered regional toolset Triple-buffered scalable groupware
##   0                      0.002666667                         0.000000000
##   1                      0.000000000                         0.002666667
##    Ad.Topic.Line
## Y   Universal 24/7 implementation Universal asymmetric archive
##   0                   0.000000000                 0.002666667
##   1                   0.002666667                 0.000000000
##    Ad.Topic.Line
## Y   Universal bi-directional extranet
##   0                       0.002666667
##   1                       0.000000000
##    Ad.Topic.Line
## Y   Universal contextually-based system engine Universal empowering adapter
##   0                                0.002666667                 0.000000000
##   1                                0.000000000                 0.002666667
##    Ad.Topic.Line
## Y   Universal even-keeled analyzer Universal global intranet
##   0                    0.000000000               0.002666667
##   1                    0.002666667               0.000000000
##    Ad.Topic.Line
## Y   Universal incremental array Universal multi-state system engine
##   0                 0.002666667                         0.000000000
##   1                 0.000000000                         0.002666667
##    Ad.Topic.Line
## Y   Universal transitional Graphical User Interface
##   0                                   0.000000000
##   1                                   0.002666667
##    Ad.Topic.Line
## Y   Up-sized asymmetric firmware Up-sized bi-directional infrastructure
##   0                  0.000000000                            0.002666667
##   1                  0.002666667                            0.000000000
##    Ad.Topic.Line
## Y   Up-sized bifurcated capability Up-sized executive moderator
##   0                    0.002666667                 0.002666667
##   1                    0.000000000                 0.000000000
##    Ad.Topic.Line
```

```
## Y   Up-sized intangible circuit Up-sized next generation architecture
##   0                 0.002666667                             0.000000000
##   1                 0.000000000                             0.002666667
##    Ad.Topic.Line
## Y   Up-sized tertiary contingency Upgradable 4thgeneration portal
##   0                   0.002666667                     0.000000000
##   1                   0.000000000                     0.002666667
##    Ad.Topic.Line
## Y   Upgradable asymmetric emulation Upgradable asynchronous circuit
##   0                     0.000000000                     0.002666667
##   1                     0.002666667                     0.000000000
##    Ad.Topic.Line
## Y   Upgradable directional system engine Upgradable even-keeled challenge
##   0                          0.000000000                     0.000000000
##   1                          0.002666667                     0.002666667
##    Ad.Topic.Line
## Y   Upgradable heuristic system engine Upgradable local migration
##   0                        0.000000000               0.002666667
##   1                        0.002666667               0.000000000
##    Ad.Topic.Line
## Y   User-centric attitude-oriented adapter User-centric intangible contingency
##   0                           0.002666667                         0.002666667
##   1                           0.000000000                         0.000000000
##    Ad.Topic.Line
## Y   User-centric intermediate knowledge user
##   0                            0.000000000
##   1                            0.002666667
##    Ad.Topic.Line
## Y   User-friendly asymmetric info-mediaries
##   0                           0.002666667
##   1                           0.000000000
##    Ad.Topic.Line
## Y   User-friendly bandwidth-monitored attitude
##   0                              0.000000000
##   1                              0.002666667
##    Ad.Topic.Line
## Y   User-friendly client-server instruction set
##   0                               0.000000000
##   1                               0.002666667
##    Ad.Topic.Line
## Y   User-friendly content-based customer loyalty
##   0                                0.002666667
##   1                                0.000000000
##    Ad.Topic.Line
## Y   User-friendly upward-trending intranet
##   0                           0.000000000
##   1                           0.002666667
##    Ad.Topic.Line
## Y   User-friendly well-modulated leverage Versatile 4thgeneration system engine
##   0                          0.000000000                          0.002666667
##   1                          0.002666667                          0.000000000
##    Ad.Topic.Line
## Y   Versatile dedicated software Versatile local forecast
##   0                  0.000000000             0.002666667
```

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##   1                  0.002666667              0.000000000
##    Ad.Topic.Line
## Y   Versatile mission-critical application
##   0                             0.000000000
##   1                             0.002666667
##    Ad.Topic.Line
## Y   Versatile next generation pricing structure Versatile optimizing projection
##   0                                  0.002666667                     0.000000000
##   1                                  0.000000000                     0.002666667
##    Ad.Topic.Line
## Y   Versatile reciprocal structure Versatile responsive knowledge user
##   0                     0.000000000                          0.000000000
##   1                     0.002666667                          0.002666667
##    Ad.Topic.Line
## Y   Versatile scalable encryption Versatile transitional monitoring
##   0                    0.000000000                       0.000000000
##   1                    0.002666667                       0.002666667
##    Ad.Topic.Line
## Y   Virtual 5thgeneration emulation Virtual 5thgeneration neural-net
##   0                      0.000000000                      0.002666667
##   1                      0.002666667                      0.000000000
##    Ad.Topic.Line
## Y   Virtual bandwidth-monitored initiative Virtual bifurcated portal
##   0                             0.000000000              0.000000000
##   1                             0.002666667              0.002666667
##    Ad.Topic.Line
## Y   Virtual composite model Virtual context-sensitive support
##   0             0.002666667                      0.002666667
##   1             0.000000000                      0.000000000
##    Ad.Topic.Line
## Y   Virtual executive implementation Virtual homogeneous budgetary management
##   0                       0.000000000                                0.000000000
##   1                       0.002666667                                0.002666667
##    Ad.Topic.Line
## Y   Virtual impactful algorithm Virtual scalable secured line
##   0                 0.002666667                  0.000000000
##   1                 0.000000000                  0.002666667
##    Ad.Topic.Line
## Y   Vision-oriented asynchronous Internet solution
##   0                                    0.000000000
##   1                                    0.002666667
##    Ad.Topic.Line
## Y   Vision-oriented attitude-oriented Internet solution
##   0                                         0.000000000
##   1                                         0.002666667
##    Ad.Topic.Line
## Y   Vision-oriented contextually-based extranet
##   0                                  0.000000000
##   1                                  0.002666667
##    Ad.Topic.Line
## Y   Vision-oriented human-resource synergy Vision-oriented methodical support
##   0                             0.002666667                         0.000000000
##   1                             0.000000000                         0.002666667
##    Ad.Topic.Line
```

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## Y   Vision-oriented system-worthy forecast Visionary analyzing structure
##   0                             0.000000000                   0.002666667
##   1                             0.002666667                   0.000000000
##    Ad.Topic.Line
## Y   Visionary client-driven installation
##   0                           0.002666667
##   1                           0.000000000
##    Ad.Topic.Line
## Y   Visionary maximized process improvement Visionary reciprocal circuit
##   0                              0.000000000                   0.002666667
##   1                              0.002666667                   0.000000000
##
##    City
## Y     Adamsbury    Adamside   Adamsstad    Alanview Alexanderfurt Alexandrafort
##   0 0.000000000 0.000000000 0.002666667 0.002666667   0.000000000   0.002666667
##   1 0.002666667 0.002666667 0.000000000 0.000000000   0.002666667   0.000000000
##    City
## Y    Aliciatown Alvaradoport Alvarezland  Amandafort Amandahaven    Amyhaven
##   0 0.000000000  0.000000000 0.000000000 0.000000000 0.000000000 0.002666667
##   1 0.002666667  0.002666667 0.002666667 0.002666667 0.002666667 0.000000000
##    City
## Y   Andersonchester Andersonfurt Andersonton Andrewborough Andrewmouth
##   0     0.000000000  0.000000000 0.002666667   0.000000000 0.002666667
##   1     0.002666667  0.002666667 0.000000000   0.002666667 0.000000000
##    City
## Y   Anthonyfurt Ashleymouth  Austinland  Bakerhaven Barbershire Benjaminchester
##   0 0.002666667 0.002666667 0.002666667 0.002666667 0.002666667     0.002666667
##   1 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000     0.000000000
##    City
## Y    Bernardton   Bethburgh Blairborough Blevinstown   Bowenview Bradleyborough
##   0 0.000000000 0.000000000  0.000000000 0.000000000 0.002666667    0.002666667
##   1 0.002666667 0.002666667  0.002666667 0.002666667 0.000000000    0.000000000
##    City
## Y   Bradleyburgh Bradleyside   Bradyfurt Brandonbury Brandonstad Brandymouth
##   0  0.000000000 0.000000000 0.000000000 0.000000000 0.002666667 0.000000000
##   1  0.002666667 0.002666667 0.002666667 0.002666667 0.000000000 0.002666667
##    City
## Y   Brendaburgh Brendachester   Brianfurt   Brownbury    Brownton   Browntown
##   0 0.002666667   0.000000000 0.000000000 0.002666667 0.000000000 0.000000000
##   1 0.000000000   0.002666667 0.002666667 0.000000000 0.002666667 0.002666667
##    City
## Y   Burgessside  Butlerfort   Calebberg  Cannonbury Carsonshire Carterburgh
##   0 0.000000000 0.000000000 0.002666667 0.002666667 0.002666667 0.002666667
##   1 0.002666667 0.002666667 0.000000000 0.000000000 0.000000000 0.000000000
##    City
## Y    Carterland  Carterport   Carterton Cassandratown Catherinefort
##   0 0.000000000 0.002666667 0.002666667   0.002666667   0.000000000
##   1 0.002666667 0.000000000 0.000000000   0.000000000   0.002666667
##    City
## Y   Cervantesshire Chapmanland Chapmanmouth Charlenetown Charlesbury
##   0    0.000000000 0.002666667  0.000000000  0.000000000 0.002666667
##   1    0.002666667 0.000000000  0.002666667  0.002666667 0.000000000
##    City
## Y   Charlottefort  Chrismouth Christinehaven Christinetown Christopherport
```

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##   0   0.000000000 0.000000000    0.000000000   0.000000000     0.000000000
##   1   0.002666667 0.002666667    0.002666667   0.002666667     0.002666667
##    City
## Y   Christopherville Clarkborough Claytonside  Clineshire  Coffeytown
##   0      0.002666667  0.000000000 0.002666667 0.002666667 0.002666667
##   1      0.000000000  0.002666667 0.000000000 0.000000000 0.000000000
##    City
## Y   Colemanshire Collinsburgh   Combsstad Contrerasshire  Costaburgh
##   0  0.002666667  0.002666667 0.000000000    0.002666667 0.000000000
##   1  0.000000000  0.000000000 0.002666667    0.000000000 0.002666667
##    City
## Y      Coxhaven  Cranemouth Crawfordfurt Cunninghamhaven  Curtisport
##   0 0.002666667 0.002666667  0.000000000     0.000000000 0.000000000
##   1 0.000000000 0.000000000  0.002666667     0.002666667 0.002666667
##    City
## Y    Curtisview  Daisymouth   Davidstad   Davidview Daviesborough Davieshaven
##   0 0.002666667 0.002666667 0.000000000 0.000000000   0.002666667 0.002666667
##   1 0.000000000 0.000000000 0.002666667 0.002666667   0.000000000 0.000000000
##    City
## Y     Davisfurt      Dayton Deannaville  Debraburgh Derrickhaven Destinyfurt
##   0 0.000000000 0.002666667 0.002666667 0.000000000  0.002666667 0.000000000
##   1 0.002666667 0.000000000 0.000000000 0.002666667  0.000000000 0.002666667
##    City
## Y    Dianashire  Dianaville Donaldshire   Duffystad Dustinborough Dustinchester
##   0 0.002666667 0.000000000 0.002666667 0.000000000   0.002666667   0.002666667
##   1 0.000000000 0.002666667 0.000000000 0.002666667   0.000000000   0.000000000
##    City
## Y    East Aaron East Anthony East Barbara East Benjaminville East Breannafurt
##   0 0.002666667  0.000000000  0.000000000        0.002666667      0.000000000
##   1 0.000000000  0.002666667  0.002666667        0.000000000      0.002666667
##    City
## Y   East Brittanyville East Carlos East Christopher East Christopherbury
##   0        0.000000000 0.002666667      0.002666667          0.002666667
##   1        0.002666667 0.000000000      0.000000000          0.000000000
##    City
## Y   East Connie   East Dana East Deborahhaven  East Donna   East Eric
##   0 0.002666667 0.000000000       0.002666667 0.000000000 0.000000000
##   1 0.000000000 0.002666667       0.000000000 0.002666667 0.002666667
##    City
## Y   East Ericport East Georgeside  East Jason East Jessefort   East John
##   0   0.000000000     0.000000000 0.000000000    0.000000000 0.002666667
##   1   0.002666667     0.002666667 0.002666667    0.002666667 0.002666667
##    City
## Y   East Johnport East Kevinbury East Lindsey East Maureen East Michaelland
##   0   0.002666667    0.000000000  0.000000000  0.000000000      0.002666667
##   1   0.000000000    0.002666667  0.002666667  0.002666667      0.000000000
##    City
## Y   East Michaeltown East Michelleberg   East Mike   East Paul East Rachaelfurt
##   0      0.002666667       0.000000000 0.000000000 0.002666667      0.000000000
##   1      0.000000000       0.002666667 0.002666667 0.000000000      0.002666667
##    City
## Y   East Rachelview East Ronald East Sharon East Shawnchester East Stephen
##   0     0.000000000 0.000000000 0.000000000       0.002666667  0.000000000
##   1     0.002666667 0.002666667 0.002666667       0.000000000  0.002666667
```

```
##    City
## Y   East Tammie East Theresashire East Tiffanyport East Timothy
##   0 0.000000000       0.002666667      0.002666667  0.002666667
##   1 0.002666667       0.000000000      0.000000000  0.000000000
##    City
## Y   East Timothyport East Toddfort East Troyhaven East Tylershire
##   0      0.002666667   0.002666667    0.002666667     0.000000000
##   1      0.000000000   0.000000000    0.000000000     0.002666667
##    City
## Y   East Vincentstad Edwardmouth Edwardsmouth Edwardsport Elizabethbury
##   0      0.000000000 0.002666667  0.002666667 0.000000000   0.000000000
##   1      0.002666667 0.000000000  0.000000000 0.002666667   0.002666667
##    City
## Y   Elizabethmouth Elizabethport Elizabethstad   Emilyfurt Ericksonmouth
##   0    0.002666667   0.000000000   0.000000000 0.002666667   0.000000000
##   1    0.000000000   0.002666667   0.002666667 0.000000000   0.002666667
##    City
## Y     Erikville     Erinton Estradafurt Estradashire  Evansville   Faithview
##   0 0.002666667 0.000000000 0.002666667  0.000000000 0.000000000 0.002666667
##   1 0.000000000 0.002666667 0.000000000  0.002666667 0.002666667 0.000000000
##    City
## Y    Florestown  Fosterside   Frankbury Frankchester   Frankport Fraziershire
##   0 0.000000000 0.000000000 0.000000000  0.002666667 0.000000000  0.000000000
##   1 0.002666667 0.002666667 0.002666667  0.000000000 0.002666667  0.002666667
##    City
## Y   Garciamouth  Garciaside  Garciatown  Garciaview  Garnerberg Garrettborough
##   0 0.000000000 0.000000000 0.002666667 0.000000000 0.002666667    0.002666667
##   1 0.002666667 0.002666667 0.000000000 0.002666667 0.000000000    0.000000000
##    City
## Y   Garychester Gonzalezburgh  Grahamberg   Greentown   Greerport    Greerton
##   0 0.002666667   0.002666667 0.000000000 0.002666667 0.000000000 0.002666667
##   1 0.000000000   0.000000000 0.002666667 0.000000000 0.002666667 0.000000000
##    City
## Y     Greghaven    Haleberg    Haleview    Hallfort Hamiltonfort Hammondport
##   0 0.002666667 0.002666667 0.002666667 0.002666667  0.000000000 0.002666667
##   1 0.000000000 0.000000000 0.000000000 0.000000000  0.002666667 0.000000000
##    City
## Y    Hannahside  Hansenland Hansenmouth Harmonhaven Harperborough Harrisonmouth
##   0 0.002666667 0.000000000 0.000000000 0.002666667   0.000000000   0.002666667
##   1 0.000000000 0.002666667 0.002666667 0.000000000   0.002666667   0.000000000
##    City
## Y   Hartmanchester    Hartport  Harveyport Hatfieldshire Hawkinsbury
##   0    0.000000000 0.002666667 0.000000000   0.002666667 0.000000000
##   1    0.002666667 0.000000000 0.002666667   0.000000000 0.002666667
##    City
## Y    Hayesmouth Heatherberg Helenborough   Henryfort   Henryland Hernandezfort
##   0 0.002666667 0.000000000  0.000000000 0.002666667 0.000000000   0.002666667
##   1 0.000000000 0.002666667  0.002666667 0.000000000 0.002666667   0.000000000
##    City
## Y   Hernandezville    Hessstad   Hobbsbury Hollandberg   Hollyfurt Hubbardmouth
##   0    0.000000000 0.002666667 0.000000000 0.002666667 0.002666667  0.000000000
##   1    0.002666667 0.000000000 0.002666667 0.000000000 0.000000000  0.002666667
##    City
## Y   Huffmanchester  Hughesport Hurleyborough    Ianmouth  Ingramberg
```

```
##   0    0.000000000 0.000000000   0.002666667 0.002666667 0.002666667
##   1    0.002666667 0.002666667   0.000000000 0.000000000 0.000000000
##    City
## Y   Jacksonburgh Jacksonmouth Jacksonstad   Jacobstad Jacquelineshire
##   0  0.000000000  0.002666667 0.000000000 0.000000000     0.000000000
##   1  0.002666667  0.000000000 0.002666667 0.002666667     0.002666667
##    City
## Y     Jamesfurt  Jamesville   Jamiefort    Jayville Jeffreyburgh Jeffreymouth
##   0 0.000000000 0.002666667 0.002666667 0.002666667  0.000000000  0.000000000
##   1 0.002666667 0.000000000 0.000000000 0.000000000  0.002666667  0.002666667
##    City
## Y   Jeffreyshire Jenniferhaven Jenniferstad Jensenborough   Jensenton
##   0  0.002666667   0.000000000  0.002666667   0.000000000 0.000000000
##   1  0.000000000   0.002666667  0.000000000   0.002666667 0.002666667
##    City
## Y    Jeremybury Jeremyshire Jessicashire   Joanntown    Johnport Johnsontown
##   0 0.000000000 0.002666667  0.000000000 0.002666667 0.002666667 0.000000000
##   1 0.002666667 0.000000000  0.002666667 0.000000000 0.000000000 0.002666667
##    City
## Y     Johnsport    Johnstad Johnstonmouth Jonathanland  Jonesshire    Joneston
##   0 0.002666667 0.005333333   0.000000000  0.000000000 0.000000000 0.002666667
##   1 0.000000000 0.000000000   0.002666667  0.002666667 0.002666667 0.000000000
##    City
## Y   Jordanmouth Jordanshire  Josephstad Joshuaburgh Joshuamouth    Juanport
##   0 0.002666667 0.000000000 0.000000000 0.002666667 0.002666667 0.002666667
##   1 0.000000000 0.002666667 0.002666667 0.000000000 0.000000000 0.000000000
##    City
## Y     Julietown  Karenmouth    Karenton   Katieport  Kaylashire   Keithtown
##   0 0.000000000 0.002666667 0.002666667 0.000000000 0.002666667 0.000000000
##   1 0.002666667 0.000000000 0.000000000 0.002666667 0.000000000 0.002666667
##    City
## Y     Kellytown Kennedyfurt Kennethview   Kentmouth Kevinchester Kimberlyhaven
##   0 0.002666667 0.002666667 0.002666667 0.000000000  0.002666667   0.002666667
##   1 0.000000000 0.000000000 0.000000000 0.002666667  0.000000000   0.000000000
##    City
## Y   Kimberlymouth Kimberlytown Kingchester   Klineside Kristineberg   Kylieview
##   0   0.000000000  0.002666667 0.000000000 0.000000000  0.002666667 0.002666667
##   1   0.002666667  0.000000000 0.002666667 0.002666667  0.000000000 0.000000000
##    City
## Y   Lake Adrian Lake Allenville Lake Amanda    Lake Amy Lake Angela
##   0 0.002666667     0.000000000 0.000000000 0.002666667 0.002666667
##   1 0.000000000     0.002666667 0.002666667 0.000000000 0.000000000
##    City
## Y   Lake Annashire Lake Beckyburgh Lake Cassandraport Lake Charlottestad
##   0    0.002666667     0.000000000        0.000000000        0.000000000
##   1    0.000000000     0.002666667        0.002666667        0.002666667
##    City
## Y   Lake Conniefurt Lake Courtney Lake Craigview Lake Cynthia Lake Danielle
##   0     0.000000000   0.002666667    0.000000000  0.002666667   0.002666667
##   1     0.002666667   0.000000000    0.002666667  0.000000000   0.000000000
##    City
## Y    Lake David Lake Deannaborough Lake Dustin Lake Elizabethside Lake Evantown
##   0 0.000000000        0.002666667 0.000000000        0.002666667   0.000000000
##   1 0.005333333        0.000000000 0.002666667        0.000000000   0.002666667
```

```
##    City
## Y   Lake Gerald Lake Hailey  Lake Jacob Lake Jacqueline  Lake James
##   0 0.000000000 0.002666667 0.002666667     0.002666667 0.000000000
##   1 0.002666667 0.000000000 0.000000000     0.000000000 0.002666667
##    City
## Y   Lake Jasonchester Lake Jennifer Lake Jenniferton Lake Jessicaville
##   0       0.002666667   0.000000000      0.002666667       0.000000000
##   1       0.000000000   0.002666667      0.000000000       0.002666667
##    City
## Y    Lake Jesus Lake Jillville Lake Johnbury Lake Jonathanview   Lake Jose
##   0 0.000000000    0.002666667   0.000000000       0.002666667 0.002666667
##   1 0.002666667    0.000000000   0.002666667       0.000000000 0.000000000
##    City
## Y   Lake Joseph Lake Josetown Lake Joshuafurt Lake Kurtmouth   Lake Lisa
##   0 0.002666667   0.002666667     0.000000000    0.002666667 0.002666667
##   1 0.000000000   0.000000000     0.002666667    0.000000000 0.000000000
##    City
## Y   Lake Matthew Lake Matthewland Lake Melindamouth Lake Michael
##   0  0.000000000      0.002666667       0.002666667  0.002666667
##   1  0.002666667      0.000000000       0.000000000  0.000000000
##    City
## Y   Lake Michaelport Lake Michelle Lake Michellebury Lake Patrick
##   0      0.002666667   0.000000000       0.000000000  0.005333333
##   1      0.000000000   0.002666667       0.002666667  0.000000000
##    City
## Y   Lake Rhondaburgh Lake Stephenborough Lake Timothy  Lake Tracy
##   0      0.000000000         0.000000000  0.002666667 0.000000000
##   1      0.002666667         0.002666667  0.000000000 0.002666667
##    City
## Y   Lake Zacharyfurt  Lauraburgh  Laurieside Lawrenceborough Lawsonshire
##   0      0.002666667 0.002666667 0.002666667     0.002666667 0.000000000
##   1      0.000000000 0.000000000 0.000000000     0.000000000 0.002666667
##    City
## Y      Leahside Leonchester  Lesliebury  Lesliefort  Lewismouth   Lindaside
##   0 0.000000000 0.002666667 0.000000000 0.002666667 0.000000000 0.002666667
##   1 0.002666667 0.000000000 0.002666667 0.000000000 0.002666667 0.000000000
##    City
## Y   Lindsaymouth    Lisaberg    Lisafort   Lisamouth   Lopezberg   Loriville
##   0  0.002666667 0.002666667 0.002666667 0.002666667 0.000000000 0.000000000
##   1  0.000000000 0.000000000 0.000000000 0.005333333 0.002666667 0.002666667
##    City
## Y     Lovemouth    Luisfurt    Lukeport Mackenziemouth Marcushaven  Mariahview
##   0 0.000000000 0.002666667 0.002666667    0.002666667 0.002666667 0.000000000
##   1 0.002666667 0.000000000 0.000000000    0.000000000 0.000000000 0.002666667
##    City
## Y    Mariemouth Masseyshire    Mataberg Matthewtown Mauricefurt Mauriceshire
##   0 0.002666667 0.000000000 0.002666667 0.000000000 0.000000000  0.002666667
##   1 0.000000000 0.002666667 0.000000000 0.002666667 0.002666667  0.000000000
##    City
## Y   Mclaughlinbury  Meaganfort Meghanchester Melissafurt Melissastad
##   0    0.002666667 0.002666667   0.000000000 0.002666667 0.002666667
##   1    0.000000000 0.000000000   0.002666667 0.000000000 0.000000000
##    City
## Y       Mezaton Michaelmouth Michaelshire Micheletown Michellefort Michelleside
```

```
##   0 0.000000000  0.002666667  0.000000000 0.000000000  0.000000000  0.000000000
##   1 0.002666667  0.000000000  0.002666667 0.002666667  0.002666667  0.005333333
##    City
## Y    Millerbury  Millerfort  Millerland  Millerside  Millertown  Millerview
##   0 0.000000000 0.002666667 0.002666667 0.000000000 0.002666667 0.002666667
##   1 0.005333333 0.000000000 0.000000000 0.002666667 0.002666667 0.000000000
##    City
## Y     Mollyport  Morganport Morrismouth Mosleyburgh  Mullenside   Munozberg
##   0 0.002666667 0.000000000 0.000000000 0.002666667 0.002666667 0.002666667
##   1 0.000000000 0.002666667 0.002666667 0.000000000 0.000000000 0.000000000
##    City
## Y   Murphymouth  Nelsonfurt  New Amanda New Brendafurt New Charleschester
##   0 0.002666667 0.000000000 0.000000000    0.000000000        0.000000000
##   1 0.000000000 0.002666667 0.002666667    0.002666667        0.002666667
##    City
## Y   New Cynthia New Darlene New Dawnland New Debbiestad New Denisebury
##   0 0.002666667 0.000000000  0.002666667    0.000000000    0.000000000
##   1 0.000000000 0.002666667  0.000000000    0.002666667    0.002666667
##    City
## Y   New Frankshire New Gabriel New Jasmine     New Jay New Jeffreychester
##   0    0.002666667 0.002666667 0.002666667 0.000000000        0.002666667
##   1    0.000000000 0.000000000 0.000000000 0.002666667        0.000000000
##    City
## Y   New Jessicaport New Joshuaport   New Julie New Karenberg New Keithburgh
##   0     0.002666667    0.000000000 0.002666667   0.000000000    0.000000000
##   1     0.000000000    0.002666667 0.000000000   0.002666667    0.002666667
##    City
## Y   New Lucasburgh New Marcusbury   New Maria New Matthew New Michaeltown
##   0    0.000000000    0.000000000 0.002666667 0.000000000     0.002666667
##   1    0.002666667    0.002666667 0.000000000 0.002666667     0.000000000
##    City
## Y     New Nancy  New Nathan New Patrick  New Rachel New Sabrina    New Sean
##   0 0.000000000 0.002666667 0.000000000 0.000000000 0.000000000 0.002666667
##   1 0.002666667 0.000000000 0.002666667 0.002666667 0.002666667 0.000000000
##    City
## Y     New Shane  New Sharon  New Sheila New Sonialand   New Steve   New Tammy
##   0 0.002666667 0.002666667 0.005333333   0.002666667 0.002666667 0.000000000
##   1 0.000000000 0.000000000 0.000000000   0.000000000 0.000000000 0.002666667
##    City
## Y    New Teresa New Theresa New Timothy    New Tina New Tinamouth
##   0 0.000000000 0.000000000 0.000000000 0.000000000   0.002666667
##   1 0.002666667 0.002666667 0.002666667 0.002666667   0.000000000
##    City
## Y   New Traceystad New Travistown   New Tyler   New Wanda New Williammouth
##   0    0.002666667    0.000000000 0.002666667 0.002666667      0.000000000
##   1    0.000000000    0.002666667 0.000000000 0.000000000      0.002666667
##    City
## Y    Newmanberg North Aaronburgh North Aaronchester North Alexandra
##   0 0.002666667      0.000000000        0.000000000     0.002666667
##   1 0.000000000      0.002666667        0.002666667     0.000000000
##    City
## Y   North Anaport North Andrew North Angelastad North Angelatown  North Anna
##   0   0.002666667  0.000000000      0.000000000      0.000000000 0.002666667
##   1   0.000000000  0.002666667      0.002666667      0.002666667 0.000000000
```

```
##    City
## Y   North April North Brandon North Brittanyburgh North Cassie
##   0 0.000000000   0.002666667         0.000000000  0.000000000
##   1 0.002666667   0.000000000         0.002666667  0.002666667
##    City
## Y   North Charlesbury North Christopher North Daniel North Debra
##   0       0.000000000       0.002666667  0.000000000 0.002666667
##   1       0.002666667       0.000000000  0.002666667 0.000000000
##    City
## Y   North Debrashire North Derekville North Destiny North Elizabeth
##   0      0.000000000      0.000000000   0.000000000     0.002666667
##   1      0.002666667      0.002666667   0.002666667     0.000000000
##    City
## Y   North Frankstad North Garyhaven North Isabellaville North Jenniferburgh
##   0     0.002666667     0.002666667         0.002666667         0.000000000
##   1     0.000000000     0.000000000         0.000000000         0.002666667
##    City
## Y   North Jessicaville North Johnside North Johntown North Jonathan
##   0        0.000000000    0.002666667    0.000000000    0.000000000
##   1        0.002666667    0.000000000    0.002666667    0.002666667
##    City
## Y   North Joshua North Katie North Kennethside North Kevinside North Kimberly
##   0  0.002666667 0.000000000       0.002666667     0.000000000    0.000000000
##   1  0.000000000 0.002666667       0.000000000     0.002666667    0.002666667
##    City
## Y   North Kristine North Loriburgh North Maryland North Mercedes
##   0    0.002666667     0.002666667    0.000000000    0.000000000
##   1    0.000000000     0.000000000    0.002666667    0.002666667
##    City
## Y   North Monicaville North Randy North Regina North Ricardotown
##   0       0.002666667 0.002666667  0.000000000       0.000000000
##   1       0.000000000 0.000000000  0.002666667       0.002666667
##    City
## Y   North Russellborough North Sarashire North Shannon North Tracyport
##   0          0.000000000     0.000000000   0.002666667     0.002666667
##   1          0.002666667     0.002666667   0.000000000     0.000000000
##    City
## Y     Novaktown   Odomville   Olsonstad  Palmerside Pamelamouth Patriciahaven
##   0 0.002666667 0.002666667 0.000000000 0.000000000 0.005333333   0.002666667
##   1 0.000000000 0.000000000 0.002666667 0.002666667 0.000000000   0.000000000
##    City
## Y     Paulhaven   Paulshire Pearsonfort    Penatown   Perezland  Perryburgh
##   0 0.002666667 0.002666667 0.002666667 0.000000000 0.002666667 0.000000000
##   1 0.000000000 0.000000000 0.000000000 0.002666667 0.000000000 0.002666667
##    City
## Y   Petersonfurt Phelpschester  Philipberg Phillipsbury Port Angelamouth
##   0  0.000000000   0.002666667 0.000000000  0.000000000      0.000000000
##   1  0.002666667   0.000000000 0.002666667  0.002666667      0.002666667
##    City
## Y   Port Anthony   Port Beth Port Brenda  Port Brian Port Brianfort
##   0  0.002666667 0.000000000 0.000000000 0.000000000    0.002666667
##   1  0.000000000 0.002666667 0.002666667 0.002666667    0.000000000
##    City
## Y   Port Brittanyville Port Brookeland Port Calvintown Port Chasemouth
```

```
##   0        0.002666667     0.000000000     0.002666667     0.002666667
##   1        0.000000000     0.002666667     0.000000000     0.000000000
##    City
## Y   Port Christina Port Christinemouth Port Daniel Port Davidland Port Dennis
##   0    0.000000000         0.002666667 0.002666667    0.002666667 0.000000000
##   1    0.002666667         0.000000000 0.000000000    0.000000000 0.002666667
##    City
## Y   Port Derekberg Port Douglasborough Port Elijah   Port Eric Port Erikhaven
##   0    0.000000000         0.000000000 0.002666667 0.000000000    0.000000000
##   1    0.002666667         0.002666667 0.000000000 0.002666667    0.002666667
##    City
## Y   Port Erinberg Port Eugeneport Port Georgebury Port Gregory Port Jasmine
##   0   0.000000000     0.002666667     0.000000000  0.002666667  0.002666667
##   1   0.002666667     0.000000000     0.002666667  0.000000000  0.000000000
##    City
## Y    Port Jason Port Jefferybury Port Jeffrey Port Jennifer Port Jessica
##   0 0.002666667      0.000000000  0.002666667   0.000000000  0.000000000
##   1 0.002666667      0.002666667  0.000000000   0.002666667  0.002666667
##    City
## Y   Port Jessicamouth   Port Jodi Port Joshuafort   Port Juan  Port Julie
##   0       0.002666667 0.002666667     0.000000000 0.002666667 0.002666667
##   1       0.000000000 0.000000000     0.002666667 0.002666667 0.000000000
##    City
## Y   Port Karenfurt Port Katelynview Port Kathleenfort Port Kevinborough
##   0    0.002666667      0.000000000       0.000000000       0.002666667
##   1    0.000000000      0.002666667       0.002666667       0.000000000
##    City
## Y   Port Lawrence  Port Maria Port Mathew Port Melissaberg Port Melissastad
##   0   0.000000000 0.002666667 0.002666667      0.000000000      0.002666667
##   1   0.002666667 0.000000000 0.000000000      0.002666667      0.000000000
##    City
## Y   Port Michealburgh Port Mitchell Port Patrickton Port Paultown Port Rachel
##   0       0.000000000   0.000000000     0.000000000   0.000000000 0.000000000
##   1       0.002666667   0.002666667     0.002666667   0.002666667 0.002666667
##    City
## Y   Port Raymondfort  Port Robin Port Sarahhaven Port Sarahshire
##   0      0.002666667 0.002666667     0.000000000     0.000000000
##   1      0.000000000 0.000000000     0.002666667     0.002666667
##    City
## Y   Port Sherrystad Port Stacey  Port Susan Port Whitneyhaven Pottermouth
##   0     0.000000000 0.002666667 0.002666667       0.002666667 0.000000000
##   1     0.002666667 0.000000000 0.000000000       0.000000000 0.002666667
##    City
## Y    Princebury Pruittmouth Rachelhaven Ramirezhaven Ramirezland Ramirezside
##   0 0.002666667 0.002666667 0.002666667  0.000000000 0.002666667 0.000000000
##   1 0.000000000 0.000000000 0.000000000  0.002666667 0.000000000 0.002666667
##    City
## Y    Ramirezton   Ramosstad Randolphport  Randyshire Rebeccamouth Reginamouth
##   0 0.002666667 0.002666667  0.002666667 0.002666667  0.000000000 0.000000000
##   1 0.000000000 0.000000000  0.000000000 0.000000000  0.002666667 0.002666667
##    City
## Y   Reneechester   Reyesfurt Rhondaborough Richardshire Richardsland
##   0  0.000000000 0.002666667   0.002666667  0.000000000  0.002666667
##   1  0.002666667 0.000000000   0.000000000  0.002666667  0.000000000
```

```
##    City
## Y   Richardsonland Richardsonmouth Richardsonshire Richardsontown  Rickymouth
##   0    0.000000000     0.002666667     0.000000000    0.002666667 0.002666667
##   1    0.002666667     0.000000000     0.002666667    0.000000000 0.000000000
##    City
## Y     Riggsstad  Robertbury  Robertfurt  Robertside Robertstown Robinsonland
##   0 0.002666667 0.002666667 0.000000000 0.000000000 0.000000000  0.002666667
##   1 0.000000000 0.000000000 0.005333333 0.002666667 0.002666667  0.000000000
##    City
## Y   Robinsontown   Rochabury  Rogerburgh   Rogerland  Ronaldport Ronniemouth
##   0  0.000000000 0.000000000 0.000000000 0.002666667 0.000000000 0.000000000
##   1  0.002666667 0.002666667 0.002666667 0.000000000 0.002666667 0.002666667
##    City
## Y   Russellville   Ryanhaven Sabrinaview Salazarbury Samanthaland Samuelborough
##   0  0.000000000 0.000000000 0.002666667 0.000000000  0.000000000   0.002666667
##   1  0.002666667 0.002666667 0.000000000 0.002666667  0.002666667   0.000000000
##    City
## Y   Sanchezland Sanchezmouth Sandersland Sandraville    Sarafurt   Sarahland
##   0 0.002666667  0.002666667 0.002666667 0.002666667 0.002666667 0.000000000
##   1 0.000000000  0.000000000 0.000000000 0.000000000 0.000000000 0.002666667
##    City
## Y      Sarahton Sellerstown   Shaneland   Sharpberg   Shawnside    Shawstad
##   0 0.002666667 0.002666667 0.002666667 0.002666667 0.002666667 0.002666667
##   1 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000
##    City
## Y    Shelbyport Sherrishire  Smithburgh   Smithside   Smithtown South Aaron
##   0 0.002666667 0.002666667 0.002666667 0.000000000 0.002666667 0.000000000
##   1 0.002666667 0.000000000 0.000000000 0.002666667 0.000000000 0.002666667
##    City
## Y    South Adam South Adamhaven South Alexisborough South Blakestad South Brian
##   0 0.000000000     0.002666667         0.000000000     0.002666667 0.002666667
##   1 0.002666667     0.000000000         0.002666667     0.000000000 0.000000000
##    City
## Y   South Cathyfurt South Corey South Cynthiashire South Daniellefort
##   0     0.000000000 0.002666667        0.000000000        0.002666667
##   1     0.002666667 0.000000000        0.002666667        0.000000000
##    City
## Y   South Davidhaven South Denisefurt South Henry South Jackieberg  South Jade
##   0      0.000000000      0.002666667 0.000000000      0.000000000 0.000000000
##   1      0.002666667      0.000000000 0.002666667      0.002666667 0.002666667
##    City
## Y   South Jaimeview South Jasminebury South Jeanneport South Jennifer
##   0     0.002666667       0.000000000      0.000000000    0.002666667
##   1     0.000000000       0.002666667      0.002666667    0.000000000
##    City
## Y   South Jessica South Johnnymouth  South Lisa South Manuel South Margaret
##   0   0.000000000       0.000000000 0.000000000  0.002666667    0.000000000
##   1   0.002666667       0.002666667 0.005333333  0.000000000    0.002666667
##    City
## Y   South Meghan South Meredithmouth South Pamela South Patrickfort
##   0  0.000000000         0.002666667  0.002666667       0.002666667
##   1  0.002666667         0.000000000  0.000000000       0.000000000
##    City
## Y   South Rebecca South Renee South Robert South Stephanieport South Tiffanyton
```

```
##   0   0.000000000 0.002666667  0.002666667         0.002666667      0.000000000
##   1   0.002666667 0.000000000  0.000000000         0.000000000      0.002666667
##    City
## Y    South Troy South Walter  Staceyfort Stephenborough Stewartbury Suzannetown
##   0 0.002666667  0.000000000 0.000000000    0.002666667 0.002666667 0.000000000
##   1 0.000000000  0.002666667 0.002666667    0.000000000 0.000000000 0.002666667
##    City
## Y    Sylviaview  Tammymouth  Taylorberg Taylorhaven Taylormouth  Taylorport
##   0 0.002666667 0.000000000 0.002666667 0.000000000 0.000000000 0.002666667
##   1 0.000000000 0.002666667 0.000000000 0.002666667 0.002666667 0.000000000
##    City
## Y    Thomasstad  Thomasview Timothyfurt Timothymouth Timothyport Timothytown
##   0 0.002666667 0.002666667 0.000000000  0.000000000 0.000000000 0.002666667
##   1 0.000000000 0.000000000 0.002666667  0.002666667 0.002666667 0.000000000
##    City
## Y   Tinachester     Tinaton Townsendfurt  Tracyhaven    Tranland Turnerchester
##   0 0.002666667 0.000000000  0.002666667 0.000000000 0.002666667   0.000000000
##   1 0.000000000 0.002666667  0.000000000 0.002666667 0.000000000   0.002666667
##    City
## Y     Tylerport Vanessastad Vanessaview Villanuevastad Villanuevaton
##   0 0.000000000 0.000000000 0.000000000    0.002666667   0.002666667
##   1 0.002666667 0.002666667 0.002666667    0.000000000   0.000000000
##    City
## Y     Wademouth    Wadestad Wagnerchester Wallacechester  Waltertown
##   0 0.002666667 0.002666667   0.002666667    0.002666667 0.000000000
##   1 0.000000000 0.000000000   0.000000000    0.000000000 0.002666667
##    City
## Y    Welchshire    Wendyton  West Alice West Andrew West Angela West Angelabury
##   0 0.000000000 0.002666667 0.002666667 0.002666667 0.002666667     0.002666667
##   1 0.002666667 0.000000000 0.000000000 0.000000000 0.000000000     0.000000000
##    City
## Y   West Annefort West Aprilport West Arielstad West Benjamin   West Brad
##   0   0.000000000    0.000000000    0.002666667   0.002666667 0.000000000
##   1   0.002666667    0.002666667    0.000000000   0.000000000 0.002666667
##    City
## Y   West Brandonton West Brenda West Carmenfurt  West Casey West Chloeborough
##   0     0.000000000 0.002666667     0.002666667 0.000000000       0.000000000
##   1     0.002666667 0.000000000     0.000000000 0.002666667       0.002666667
##    City
## Y   West Christopher  West Colin West Connor West Daleborough  West David
##   0      0.000000000 0.002666667 0.000000000      0.002666667 0.000000000
##   1      0.002666667 0.000000000 0.002666667      0.000000000 0.002666667
##    City
## Y   West Derekmouth West Dylanberg West Ericaport West Ericfurt
##   0     0.000000000    0.000000000    0.000000000   0.000000000
##   1     0.002666667    0.002666667    0.002666667   0.002666667
##    City
## Y   West Gabriellamouth West Gregburgh West Guybury   West Jane West Jeremyside
##   0         0.000000000    0.002666667  0.002666667 0.000000000     0.000000000
##   1         0.002666667    0.000000000  0.000000000 0.002666667     0.002666667
##    City
## Y   West Jessicahaven  West Julia West Justin West Katiefurt  West Lacey
##   0       0.000000000 0.000000000 0.000000000    0.000000000 0.002666667
##   1       0.002666667 0.002666667 0.002666667    0.002666667 0.000000000
```

```
##    City
## Y   West Leahton West Lindseybury   West Lisa  West Lucas West Mariafort
##   0  0.000000000      0.000000000 0.002666667 0.002666667    0.002666667
##   1  0.002666667      0.002666667 0.000000000 0.000000000    0.000000000
##    City
## Y   West Melaniefurt West Melissashire West Michaelport West Michaelshire
##   0      0.000000000       0.000000000      0.002666667       0.002666667
##   1      0.002666667       0.002666667      0.000000000       0.000000000
##    City
## Y   West Michaelstad  West Randy West Raymondmouth West Rhondamouth
##   0      0.002666667 0.000000000       0.000000000      0.002666667
##   1      0.000000000 0.002666667       0.002666667      0.000000000
##    City
## Y   West Ricardo West Richard West Roytown West Russell West Samantha
##   0  0.000000000  0.000000000  0.002666667  0.002666667   0.002666667
##   1  0.002666667  0.002666667  0.000000000  0.000000000   0.000000000
##    City
## Y   West Shannon West Steven West Sydney West Tanner West Thomas West Tinashire
##   0  0.000000000 0.005333333 0.002666667 0.002666667 0.002666667    0.000000000
##   1  0.005333333 0.000000000 0.000000000 0.000000000 0.000000000    0.002666667
##    City
## Y   West Wendyland   Whiteport Whitneyfort  Wilcoxport Williamport
##   0    0.002666667 0.000000000 0.002666667 0.000000000 0.002666667
##   1    0.000000000 0.002666667 0.000000000 0.002666667 0.000000000
##    City
## Y   Williamsborough Williamsfort Williamsmouth Williamsport Williamsside
##   0     0.000000000  0.000000000   0.000000000  0.002666667  0.002666667
##   1     0.002666667  0.002666667   0.002666667  0.002666667  0.000000000
##    City
## Y   Williamstad Wintersfort    Wongland Wrightburgh  Wrightview    Yangside
##   0 0.000000000 0.002666667 0.002666667 0.005333333 0.000000000 0.000000000
##   1 0.002666667 0.000000000 0.000000000 0.000000000 0.002666667 0.002666667
##    City
## Y    Youngburgh   Youngfort       Yuton Zacharystad  Zacharyton
##   0 0.002666667 0.000000000 0.000000000 0.002666667 0.000000000
##   1 0.000000000 0.002666667 0.002666667 0.000000000 0.002666667
##
##    Male
## Y           0         1
##   0 0.4906667 0.5093333
##   1 0.5520000 0.4480000
##
##    Country
## Y   Afghanistan     Albania     Algeria American Samoa     Andorra      Angola
##   0 0.008000000 0.008000000 0.008000000    0.002666667 0.000000000 0.002666667
##   1 0.008000000 0.010666667 0.005333333    0.008000000 0.002666667 0.000000000
##    Country
## Y      Anguilla Antarctica (the territory South of 60 deg S)
##   0 0.005333333                                   0.002666667
##   1 0.005333333                                   0.005333333
##    Country
## Y   Antigua and Barbuda   Argentina     Armenia       Aruba   Australia
##   0         0.000000000 0.002666667 0.002666667 0.002666667 0.002666667
##   1         0.010666667 0.000000000 0.000000000 0.000000000 0.018666667
```

```
##    Country
## Y       Austria  Azerbaijan     Bahamas     Bahrain  Bangladesh    Barbados
##   0 0.008000000 0.005333333 0.005333333 0.002666667 0.005333333 0.008000000
##   1 0.002666667 0.000000000 0.010666667 0.005333333 0.002666667 0.000000000
##    Country
## Y       Belarus     Belgium      Belize       Benin      Bhutan     Bolivia
##   0 0.008000000 0.008000000 0.005333333 0.002666667 0.002666667 0.010666667
##   1 0.002666667 0.005333333 0.000000000 0.002666667 0.000000000 0.000000000
##    Country
## Y   Bosnia and Herzegovina Bouvet Island (Bouvetoya)      Brazil
##   0            0.005333333               0.008000000 0.002666667
##   1            0.002666667               0.002666667 0.005333333
##    Country
## Y   British Virgin Islands Brunei Darussalam    Bulgaria Burkina Faso
##   0            0.005333333       0.008000000 0.002666667  0.008000000
##   1            0.002666667       0.005333333 0.005333333  0.002666667
##    Country
## Y       Burundi    Cambodia    Cameroon      Canada  Cape Verde Cayman Islands
##   0 0.010666667 0.008000000 0.005333333 0.002666667 0.002666667    0.005333333
##   1 0.002666667 0.000000000 0.000000000 0.005333333 0.000000000    0.008000000
##    Country
## Y   Central African Republic        Chad       Chile       China
##   0              0.002666667 0.005333333 0.002666667 0.000000000
##   1              0.002666667 0.002666667 0.005333333 0.008000000
##    Country
## Y   Christmas Island    Colombia     Comoros       Congo Cook Islands
##   0      0.002666667 0.002666667 0.002666667 0.002666667  0.005333333
##   1      0.008000000 0.000000000 0.002666667 0.005333333  0.002666667
##    Country
## Y    Costa Rica Cote d'Ivoire     Croatia        Cuba      Cyprus
##   0 0.008000000   0.002666667 0.010666667 0.002666667 0.008000000
##   1 0.002666667   0.008000000 0.000000000 0.010666667 0.008000000
##    Country
## Y   Czech Republic     Denmark    Dominica Dominican Republic     Ecuador
##   0    0.010666667 0.002666667 0.005333333        0.005333333 0.008000000
##   1    0.005333333 0.002666667 0.002666667        0.005333333 0.002666667
##    Country
## Y         Egypt El Salvador Equatorial Guinea     Eritrea     Estonia
##   0 0.005333333 0.002666667       0.002666667 0.010666667 0.002666667
##   1 0.005333333 0.008000000       0.005333333 0.005333333 0.002666667
##    Country
## Y      Ethiopia Falkland Islands (Malvinas) Faroe Islands        Fiji
##   0 0.000000000                 0.002666667   0.002666667 0.010666667
##   1 0.013333333                 0.005333333   0.005333333 0.008000000
##    Country
## Y       Finland      France French Guiana French Polynesia
##   0 0.010666667 0.010666667   0.002666667      0.008000000
##   1 0.000000000 0.010666667   0.005333333      0.002666667
##    Country
## Y   French Southern Territories       Gabon     Georgia     Germany       Ghana
##   0                 0.008000000 0.010666667 0.005333333 0.000000000 0.005333333
##   1                 0.000000000 0.000000000 0.005333333 0.002666667 0.005333333
##    Country
## Y     Gibraltar      Greece   Greenland     Grenada  Guadeloupe        Guam
```

```
##   0 0.008000000 0.010666667 0.010666667 0.005333333 0.000000000 0.002666667
##   1 0.000000000 0.005333333 0.002666667 0.002666667 0.002666667 0.002666667
##    Country
## Y     Guatemala    Guernsey      Guinea      Guyana       Haiti
##   0 0.002666667 0.000000000 0.000000000 0.005333333 0.002666667
##   1 0.005333333 0.005333333 0.005333333 0.008000000 0.002666667
##    Country
## Y   Heard Island and McDonald Islands Holy See (Vatican City State)    Honduras
##   0                       0.002666667                   0.000000000 0.008000000
##   1                       0.000000000                   0.002666667 0.005333333
##    Country
## Y     Hong Kong     Hungary     Iceland       India   Indonesia        Iran
##   0 0.005333333 0.000000000 0.002666667 0.005333333 0.002666667 0.002666667
##   1 0.008000000 0.005333333 0.002666667 0.000000000 0.008000000 0.008000000
##    Country
## Y       Ireland Isle of Man      Israel       Italy     Jamaica      Jersey
##   0 0.005333333 0.005333333 0.005333333 0.005333333 0.008000000 0.002666667
##   1 0.000000000 0.002666667 0.005333333 0.002666667 0.005333333 0.008000000
##    Country
## Y        Jordan  Kazakhstan       Kenya    Kiribati       Korea      Kuwait
##   0 0.002666667 0.005333333 0.000000000 0.000000000 0.005333333 0.002666667
##   1 0.000000000 0.005333333 0.008000000 0.002666667 0.008000000 0.002666667
##    Country
## Y   Kyrgyz Republic Lao People's Democratic Republic      Latvia     Lebanon
##   0     0.010666667                      0.005333333 0.000000000 0.002666667
##   1     0.002666667                      0.005333333 0.010666667 0.008000000
##    Country
## Y       Lesotho     Liberia Libyan Arab Jamahiriya Liechtenstein   Lithuania
##   0 0.002666667 0.002666667            0.005333333   0.000000000 0.000000000
##   1 0.000000000 0.013333333            0.005333333   0.010666667 0.008000000
##    Country
## Y    Luxembourg       Macao   Macedonia  Madagascar      Malawi    Malaysia
##   0 0.008000000 0.000000000 0.002666667 0.005333333 0.002666667 0.005333333
##   1 0.005333333 0.005333333 0.000000000 0.002666667 0.005333333 0.000000000
##    Country
## Y      Maldives        Mali       Malta  Martinique  Mauritania   Mauritius
##   0 0.005333333 0.005333333 0.008000000 0.002666667 0.002666667 0.008000000
##   1 0.000000000 0.002666667 0.008000000 0.008000000 0.002666667 0.002666667
##    Country
## Y       Mayotte      Mexico  Micronesia     Moldova      Monaco    Mongolia
##   0 0.002666667 0.005333333 0.010666667 0.008000000 0.002666667 0.002666667
##   1 0.008000000 0.010666667 0.002666667 0.005333333 0.000000000 0.010666667
##    Country
## Y    Montenegro     Morocco  Mozambique     Myanmar     Namibia       Nauru
##   0 0.000000000 0.002666667 0.002666667 0.008000000 0.002666667 0.000000000
##   1 0.005333333 0.002666667 0.000000000 0.002666667 0.002666667 0.002666667
##    Country
## Y        Nepal Netherlands Netherlands Antilles New Caledonia New Zealand
##   0 0.008000000 0.000000000          0.008000000   0.000000000 0.002666667
##   1 0.000000000 0.008000000          0.005333333   0.005333333 0.000000000
##    Country
## Y     Nicaragua       Niger        Niue Norfolk Island Northern Mariana Islands
##   0 0.005333333 0.000000000 0.008000000    0.002666667              0.002666667
##   1 0.000000000 0.002666667 0.000000000    0.005333333              0.002666667
```

```
##    Country
## Y        Norway    Pakistan       Palau Palestinian Territory      Panama
##   0 0.000000000 0.005333333 0.005333333           0.002666667 0.005333333
##   1 0.002666667 0.002666667 0.005333333           0.005333333 0.000000000
##    Country
## Y   Papua New Guinea    Paraguay        Peru Philippines Pitcairn Islands
##   0      0.002666667 0.005333333 0.008000000 0.008000000      0.000000000
##   1      0.008000000 0.002666667 0.010666667 0.008000000      0.002666667
##    Country
## Y        Poland    Portugal Puerto Rico       Qatar     Reunion     Romania
##   0 0.005333333 0.005333333 0.005333333 0.010666667 0.002666667 0.000000000
##   1 0.008000000 0.000000000 0.005333333 0.002666667 0.000000000 0.002666667
##    Country
## Y   Russian Federation      Rwanda Saint Barthelemy Saint Helena
##   0        0.005333333 0.008000000      0.000000000  0.005333333
##   1        0.002666667 0.005333333      0.005333333  0.002666667
##    Country
## Y   Saint Kitts and Nevis Saint Lucia Saint Martin Saint Pierre and Miquelon
##   0           0.000000000 0.002666667  0.002666667               0.000000000
##   1           0.002666667 0.002666667  0.005333333               0.005333333
##    Country
## Y   Saint Vincent and the Grenadines       Samoa  San Marino
##   0                      0.005333333 0.005333333 0.002666667
##   1                      0.005333333 0.008000000 0.002666667
##    Country
## Y   Sao Tome and Principe Saudi Arabia     Senegal      Serbia  Seychelles
##   0           0.000000000  0.000000000 0.005333333 0.005333333 0.005333333
##   1           0.002666667  0.008000000 0.008000000 0.008000000 0.002666667
##    Country
## Y   Sierra Leone   Singapore Slovakia (Slovak Republic)    Slovenia     Somalia
##   0  0.000000000 0.010666667               0.002666667 0.000000000 0.005333333
##   1  0.005333333 0.002666667               0.000000000 0.002666667 0.002666667
##    Country
## Y   South Africa South Georgia and the South Sandwich Islands       Spain
##   0  0.005333333                                   0.002666667 0.000000000
##   1  0.013333333                                   0.002666667 0.005333333
##    Country
## Y     Sri Lanka       Sudan    Suriname Svalbard & Jan Mayen Islands
##   0 0.008000000 0.005333333 0.002666667                 0.000000000
##   1 0.000000000 0.000000000 0.002666667                 0.010666667
##    Country
## Y     Swaziland      Sweden Switzerland Syrian Arab Republic      Taiwan
##   0 0.002666667 0.008000000 0.002666667          0.002666667 0.002666667
##   1 0.000000000 0.002666667 0.008000000          0.002666667 0.008000000
##    Country
## Y    Tajikistan    Tanzania    Thailand Timor-Leste        Togo     Tokelau
##   0 0.000000000 0.005333333 0.002666667 0.010666667 0.005333333 0.000000000
##   1 0.002666667 0.002666667 0.005333333 0.002666667 0.002666667 0.008000000
##    Country
## Y         Tonga Trinidad and Tobago     Tunisia      Turkey Turkmenistan
##   0 0.008000000         0.002666667 0.008000000 0.000000000  0.008000000
##   1 0.005333333         0.005333333 0.002666667 0.016000000  0.005333333
##    Country
## Y   Turks and Caicos Islands      Tuvalu      Uganda     Ukraine
```

```
##   0              0.005333333 0.002666667 0.000000000 0.005333333
##   1              0.008000000 0.005333333 0.005333333 0.002666667
##    Country
## Y   United Arab Emirates United Kingdom United States Minor Outlying Islands
##   0          0.008000000    0.002666667                          0.005333333
##   1          0.005333333    0.002666667                          0.002666667
##    Country
## Y   United States of America United States Virgin Islands     Uruguay
##   0              0.002666667                  0.005333333 0.005333333
##   1              0.002666667                  0.002666667 0.002666667
##    Country
## Y    Uzbekistan     Vanuatu   Venezuela     Vietnam Wallis and Futuna
##   0 0.002666667 0.005333333 0.008000000 0.000000000       0.005333333
##   1 0.000000000 0.002666667 0.005333333 0.005333333       0.002666667
##    Country
## Y   Western Sahara       Yemen      Zambia    Zimbabwe
##   0    0.005333333 0.002666667 0.002666667 0.005333333
##   1    0.008000000 0.005333333 0.008000000 0.002666667
##
##    Timestamp
## Y   2016-01-01 02:52:10 2016-01-01 03:35:35 2016-01-01 20:17:49
##   0         0.002666667         0.002666667         0.000000000
##   1         0.000000000         0.000000000         0.002666667
##    Timestamp
## Y   2016-01-01 21:58:55 2016-01-02 09:30:11 2016-01-02 14:36:03
##   0         0.002666667         0.002666667         0.002666667
##   1         0.000000000         0.000000000         0.000000000
##    Timestamp
## Y   2016-01-03 03:22:15 2016-01-03 04:39:47 2016-01-03 05:34:33
##   0         0.000000000         0.000000000         0.000000000
##   1         0.002666667         0.002666667         0.002666667
##    Timestamp
## Y   2016-01-03 07:13:53 2016-01-03 16:01:40 2016-01-03 16:30:51
##   0         0.002666667         0.000000000         0.002666667
##   1         0.000000000         0.002666667         0.000000000
##    Timestamp
## Y   2016-01-03 17:10:05 2016-01-03 23:21:26 2016-01-04 00:44:57
##   0         0.002666667         0.002666667         0.000000000
##   1         0.000000000         0.000000000         0.002666667
##    Timestamp
## Y   2016-01-04 04:00:35 2016-01-04 06:37:15 2016-01-04 07:28:43
##   0         0.002666667         0.002666667         0.002666667
##   1         0.000000000         0.000000000         0.000000000
##    Timestamp
## Y   2016-01-04 21:48:38 2016-01-04 22:27:25 2016-01-05 00:02:53
##   0         0.000000000         0.002666667         0.000000000
##   1         0.002666667         0.000000000         0.002666667
##    Timestamp
## Y   2016-01-05 04:18:46 2016-01-05 09:42:22 2016-01-05 11:53:17
##   0         0.000000000         0.000000000         0.000000000
##   1         0.002666667         0.002666667         0.002666667
##    Timestamp
## Y   2016-01-05 12:59:07 2016-01-05 16:26:44 2016-01-05 20:58:42
##   0         0.002666667         0.000000000         0.002666667
```

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##   1         0.000000000         0.002666667         0.000000000
##    Timestamp
## Y   2016-01-07 13:25:21 2016-01-07 13:58:51 2016-01-07 19:16:05
##   0         0.002666667         0.000000000         0.000000000
##   1         0.000000000         0.002666667         0.002666667
##    Timestamp
## Y   2016-01-07 21:21:50 2016-01-07 23:02:43 2016-01-08 00:17:27
##   0         0.002666667         0.000000000         0.000000000
##   1         0.000000000         0.002666667         0.002666667
##    Timestamp
## Y   2016-01-08 02:34:06 2016-01-08 08:08:47 2016-01-08 09:32:26
##   0         0.002666667         0.002666667         0.000000000
##   1         0.000000000         0.000000000         0.002666667
##    Timestamp
## Y   2016-01-08 18:13:43 2016-01-08 19:38:45 2016-01-08 22:47:10
##   0         0.000000000         0.002666667         0.000000000
##   1         0.002666667         0.000000000         0.002666667
##    Timestamp
## Y   2016-01-09 03:45:19 2016-01-09 05:44:56 2016-01-09 07:28:16
##   0         0.000000000         0.000000000         0.002666667
##   1         0.002666667         0.002666667         0.000000000
##    Timestamp
## Y   2016-01-09 17:33:03 2016-01-10 20:18:21 2016-01-10 23:14:30
##   0         0.000000000         0.002666667         0.000000000
##   1         0.002666667         0.000000000         0.002666667
##    Timestamp
## Y   2016-01-11 07:36:22 2016-01-11 08:18:12 2016-01-11 12:46:31
##   0         0.000000000         0.000000000         0.002666667
##   1         0.002666667         0.002666667         0.000000000
##    Timestamp
## Y   2016-01-12 03:28:31 2016-01-13 02:39:00 2016-01-13 02:58:27
##   0         0.000000000         0.000000000         0.002666667
##   1         0.002666667         0.002666667         0.000000000
##    Timestamp
## Y   2016-01-14 00:23:10 2016-01-14 08:27:04 2016-01-14 09:27:59
##   0         0.002666667         0.000000000         0.000000000
##   1         0.000000000         0.002666667         0.002666667
##    Timestamp
## Y   2016-01-14 20:58:10 2016-01-15 19:40:47 2016-01-15 19:45:33
##   0         0.000000000         0.000000000         0.000000000
##   1         0.002666667         0.002666667         0.002666667
##    Timestamp
## Y   2016-01-16 08:01:40 2016-01-16 11:35:01 2016-01-16 16:40:30
##   0         0.002666667         0.002666667         0.002666667
##   1         0.000000000         0.000000000         0.000000000
##    Timestamp
## Y   2016-01-16 17:56:05 2016-01-16 23:37:51 2016-01-17 05:07:11
##   0         0.002666667         0.000000000         0.002666667
##   1         0.000000000         0.002666667         0.000000000
##    Timestamp
## Y   2016-01-17 13:27:13 2016-01-17 18:45:55 2016-01-18 02:51:13
##   0         0.002666667         0.002666667         0.000000000
##   1         0.000000000         0.000000000         0.002666667
##    Timestamp
```

```
## Y   2016-01-18 15:18:01 2016-01-20 00:26:15 2016-01-20 02:31:36
##   0         0.000000000         0.002666667         0.002666667
##   1         0.002666667         0.000000000         0.000000000
##    Timestamp
## Y   2016-01-20 19:09:37 2016-01-21 04:30:43 2016-01-21 22:51:34
##   0         0.002666667         0.002666667         0.000000000
##   1         0.000000000         0.000000000         0.002666667
##    Timestamp
## Y   2016-01-21 23:33:22 2016-01-21 23:48:29 2016-01-22 12:58:14
##   0         0.000000000         0.002666667         0.002666667
##   1         0.002666667         0.000000000         0.000000000
##    Timestamp
## Y   2016-01-22 15:03:25 2016-01-22 19:43:53 2016-01-23 01:42:28
##   0         0.000000000         0.000000000         0.002666667
##   1         0.002666667         0.002666667         0.000000000
##    Timestamp
## Y   2016-01-23 04:47:37 2016-01-23 13:14:18 2016-01-23 15:02:13
##   0         0.002666667         0.000000000         0.000000000
##   1         0.000000000         0.002666667         0.002666667
##    Timestamp
## Y   2016-01-23 17:39:06 2016-01-23 21:15:57 2016-01-24 01:53:14
##   0         0.000000000         0.000000000         0.002666667
##   1         0.002666667         0.002666667         0.000000000
##    Timestamp
## Y   2016-01-25 07:52:53 2016-01-26 02:47:17 2016-01-26 03:56:18
##   0         0.002666667         0.002666667         0.000000000
##   1         0.000000000         0.000000000         0.002666667
##    Timestamp
## Y   2016-01-26 15:56:55 2016-01-27 12:38:16 2016-01-27 14:41:10
##   0         0.002666667         0.002666667         0.000000000
##   1         0.000000000         0.000000000         0.002666667
##    Timestamp
## Y   2016-01-27 17:08:19 2016-01-27 20:47:57 2016-01-28 07:10:29
##   0         0.002666667         0.002666667         0.000000000
##   1         0.000000000         0.000000000         0.002666667
##    Timestamp
## Y   2016-01-28 16:42:36 2016-01-28 17:03:54 2016-01-28 20:59:32
##   0         0.000000000         0.000000000         0.002666667
##   1         0.002666667         0.002666667         0.000000000
##    Timestamp
## Y   2016-01-29 00:45:19 2016-01-29 03:54:19 2016-01-29 05:39:16
##   0         0.000000000         0.000000000         0.000000000
##   1         0.002666667         0.002666667         0.002666667
##    Timestamp
## Y   2016-01-29 07:14:04 2016-01-29 20:16:54 2016-01-30 00:05:37
##   0         0.002666667         0.002666667         0.002666667
##   1         0.000000000         0.000000000         0.000000000
##    Timestamp
## Y   2016-01-30 16:10:04 2016-01-30 16:15:29 2016-01-30 19:20:41
##   0         0.002666667         0.002666667         0.000000000
##   1         0.000000000         0.000000000         0.002666667
##    Timestamp
## Y   2016-01-31 04:10:20 2016-01-31 05:12:44 2016-01-31 06:14:10
##   0         0.002666667         0.002666667         0.002666667
```

```
##   1         0.000000000         0.000000000         0.000000000
##    Timestamp
## Y   2016-01-31 08:50:38 2016-01-31 09:57:34 2016-02-01 00:52:29
##   0         0.000000000         0.002666667         0.000000000
##   1         0.002666667         0.000000000         0.002666667
##    Timestamp
## Y   2016-02-01 17:24:57 2016-02-01 19:42:40 2016-02-01 20:30:35
##   0         0.000000000         0.002666667         0.000000000
##   1         0.002666667         0.000000000         0.002666667
##    Timestamp
## Y   2016-02-02 04:57:50 2016-02-02 08:55:26 2016-02-02 11:49:18
##   0         0.002666667         0.000000000         0.002666667
##   1         0.000000000         0.002666667         0.000000000
##    Timestamp
## Y   2016-02-02 19:59:17 2016-02-03 04:21:14 2016-02-03 05:47:09
##   0         0.000000000         0.000000000         0.000000000
##   1         0.002666667         0.002666667         0.002666667
##    Timestamp
## Y   2016-02-03 10:40:27 2016-02-03 19:12:51 2016-02-03 22:11:13
##   0         0.000000000         0.000000000         0.002666667
##   1         0.002666667         0.002666667         0.000000000
##    Timestamp
## Y   2016-02-03 23:47:56 2016-02-04 02:13:52 2016-02-04 03:10:17
##   0         0.002666667         0.002666667         0.000000000
##   1         0.000000000         0.000000000         0.002666667
##    Timestamp
## Y   2016-02-04 08:53:37 2016-02-05 15:26:37 2016-02-05 16:50:58
##   0         0.000000000         0.000000000         0.002666667
##   1         0.002666667         0.002666667         0.000000000
##    Timestamp
## Y   2016-02-05 19:06:01 2016-02-07 07:41:06 2016-02-07 08:02:31
##   0         0.002666667         0.002666667         0.000000000
##   1         0.000000000         0.000000000         0.002666667
##    Timestamp
## Y   2016-02-08 00:23:38 2016-02-08 07:33:22 2016-02-08 10:46:14
##   0         0.002666667         0.002666667         0.000000000
##   1         0.000000000         0.000000000         0.002666667
##    Timestamp
## Y   2016-02-08 14:02:22 2016-02-08 22:45:26 2016-02-09 05:28:18
##   0         0.000000000         0.000000000         0.002666667
##   1         0.002666667         0.002666667         0.000000000
##    Timestamp
## Y   2016-02-09 19:37:52 2016-02-09 22:04:54 2016-02-10 06:37:56
##   0         0.002666667         0.002666667         0.002666667
##   1         0.000000000         0.000000000         0.000000000
##    Timestamp
## Y   2016-02-10 06:52:07 2016-02-10 08:21:13 2016-02-10 13:46:35
##   0         0.002666667         0.002666667         0.002666667
##   1         0.000000000         0.000000000         0.000000000
##    Timestamp
## Y   2016-02-10 15:23:17 2016-02-10 19:20:51 2016-02-10 20:43:38
##   0         0.000000000         0.000000000         0.000000000
##   1         0.002666667         0.002666667         0.002666667
##    Timestamp
```

```
## Y   2016-02-11 02:40:02 2016-02-11 04:37:34 2016-02-11 16:45:41
##   0         0.000000000         0.002666667         0.000000000
##   1         0.002666667         0.000000000         0.002666667
##    Timestamp
## Y   2016-02-11 17:02:07 2016-02-11 20:45:46 2016-02-11 21:49:00
##   0         0.000000000         0.000000000         0.000000000
##   1         0.002666667         0.002666667         0.002666667
##    Timestamp
## Y   2016-02-11 23:45:01 2016-02-12 01:55:38 2016-02-12 03:39:09
##   0         0.002666667         0.000000000         0.000000000
##   1         0.000000000         0.002666667         0.002666667
##    Timestamp
## Y   2016-02-12 05:20:19 2016-02-12 20:36:40 2016-02-12 22:51:08
##   0         0.000000000         0.002666667         0.002666667
##   1         0.002666667         0.000000000         0.000000000
##    Timestamp
## Y   2016-02-13 04:16:08 2016-02-13 13:57:53 2016-02-13 15:37:36
##   0         0.002666667         0.000000000         0.002666667
##   1         0.000000000         0.002666667         0.000000000
##    Timestamp
## Y   2016-02-14 03:50:52 2016-02-14 04:14:13 2016-02-14 07:15:37
##   0         0.002666667         0.000000000         0.002666667
##   1         0.000000000         0.002666667         0.000000000
##    Timestamp
## Y   2016-02-14 07:30:24 2016-02-14 07:36:58 2016-02-14 10:06:49
##   0         0.000000000         0.000000000         0.000000000
##   1         0.002666667         0.002666667         0.002666667
##    Timestamp
## Y   2016-02-14 11:36:08 2016-02-14 14:38:01 2016-02-14 16:33:29
##   0         0.002666667         0.000000000         0.000000000
##   1         0.000000000         0.002666667         0.002666667
##    Timestamp
## Y   2016-02-14 17:05:15 2016-02-14 22:23:30 2016-02-15 03:43:55
##   0         0.002666667         0.000000000         0.002666667
##   1         0.000000000         0.002666667         0.000000000
##    Timestamp
## Y   2016-02-15 05:35:54 2016-02-15 07:27:41 2016-02-15 12:25:28
##   0         0.002666667         0.000000000         0.002666667
##   1         0.000000000         0.002666667         0.000000000
##    Timestamp
## Y   2016-02-15 14:13:47 2016-02-15 16:18:49 2016-02-15 16:52:04
##   0         0.002666667         0.002666667         0.000000000
##   1         0.000000000         0.000000000         0.002666667
##    Timestamp
## Y   2016-02-15 20:41:05 2016-02-16 02:29:03 2016-02-16 07:37:28
##   0         0.002666667         0.002666667         0.000000000
##   1         0.000000000         0.000000000         0.002666667
##    Timestamp
## Y   2016-02-16 18:21:36 2016-02-17 07:00:38 2016-02-17 07:05:57
##   0         0.002666667         0.002666667         0.002666667
##   1         0.000000000         0.000000000         0.000000000
##    Timestamp
## Y   2016-02-17 11:15:31 2016-02-17 11:42:00 2016-02-17 13:16:33
##   0         0.002666667         0.000000000         0.000000000
```

```
##   1         0.000000000         0.002666667         0.002666667
##    Timestamp
## Y   2016-02-17 21:55:29 2016-02-17 23:47:00 2016-02-18 22:42:33
##   0         0.000000000         0.000000000         0.000000000
##   1         0.002666667         0.002666667         0.002666667
##    Timestamp
## Y   2016-02-18 23:08:59 2016-02-19 07:29:30 2016-02-19 13:26:24
##   0         0.002666667         0.000000000         0.002666667
##   1         0.000000000         0.002666667         0.000000000
##    Timestamp
## Y   2016-02-19 20:49:27 2016-02-20 00:06:20 2016-02-20 09:54:06
##   0         0.002666667         0.002666667         0.002666667
##   1         0.000000000         0.000000000         0.000000000
##    Timestamp
## Y   2016-02-20 10:52:51 2016-02-20 20:47:05 2016-02-21 07:42:48
##   0         0.000000000         0.000000000         0.000000000
##   1         0.002666667         0.002666667         0.002666667
##    Timestamp
## Y   2016-02-21 13:11:08 2016-02-21 16:57:59 2016-02-21 20:09:12
##   0         0.002666667         0.002666667         0.000000000
##   1         0.000000000         0.000000000         0.002666667
##    Timestamp
## Y   2016-02-21 23:07:11 2016-02-22 07:04:05 2016-02-23 13:55:48
##   0         0.000000000         0.002666667         0.000000000
##   1         0.002666667         0.000000000         0.002666667
##    Timestamp
## Y   2016-02-24 00:44:44 2016-02-24 04:11:37 2016-02-24 06:18:11
##   0         0.002666667         0.000000000         0.002666667
##   1         0.000000000         0.002666667         0.000000000
##    Timestamp
## Y   2016-02-24 10:36:43 2016-02-24 19:08:11 2016-02-26 01:18:44
##   0         0.002666667         0.000000000         0.002666667
##   1         0.000000000         0.002666667         0.000000000
##    Timestamp
## Y   2016-02-26 04:57:14 2016-02-26 06:00:16 2016-02-26 09:18:48
##   0         0.000000000         0.000000000         0.000000000
##   1         0.002666667         0.002666667         0.002666667
##    Timestamp
## Y   2016-02-26 09:54:33 2016-02-26 17:14:14 2016-02-26 19:35:54
##   0         0.002666667         0.002666667         0.002666667
##   1         0.000000000         0.000000000         0.000000000
##    Timestamp
## Y   2016-02-26 22:46:43 2016-02-26 23:44:44 2016-02-27 04:43:07
##   0         0.002666667         0.002666667         0.000000000
##   1         0.000000000         0.000000000         0.002666667
##    Timestamp
## Y   2016-02-27 12:34:19 2016-02-27 13:51:44 2016-02-27 20:20:25
##   0         0.002666667         0.002666667         0.002666667
##   1         0.000000000         0.000000000         0.000000000
##    Timestamp
## Y   2016-02-28 03:34:35 2016-02-28 06:41:44 2016-02-28 18:52:44
##   0         0.000000000         0.000000000         0.000000000
##   1         0.002666667         0.002666667         0.002666667
##    Timestamp
```

```
## Y   2016-02-28 22:02:14 2016-02-28 23:21:22 2016-02-28 23:54:44
##   0         0.002666667         0.000000000         0.000000000
##   1         0.000000000         0.002666667         0.002666667
##    Timestamp
## Y   2016-02-29 11:00:06 2016-02-29 18:06:21 2016-02-29 19:26:35
##   0         0.002666667         0.000000000         0.002666667
##   1         0.000000000         0.002666667         0.000000000
##    Timestamp
## Y   2016-03-01 10:01:35 2016-03-01 22:13:37 2016-03-02 04:02:45
##   0         0.002666667         0.002666667         0.000000000
##   1         0.000000000         0.000000000         0.002666667
##    Timestamp
## Y   2016-03-02 05:11:01 2016-03-02 10:07:43 2016-03-02 15:39:02
##   0         0.002666667         0.002666667         0.000000000
##   1         0.000000000         0.000000000         0.002666667
##    Timestamp
## Y   2016-03-03 02:59:37 2016-03-03 03:13:48 2016-03-03 20:20:32
##   0         0.000000000         0.002666667         0.000000000
##   1         0.002666667         0.000000000         0.002666667
##    Timestamp
## Y   2016-03-03 22:31:16 2016-03-04 08:48:29 2016-03-04 13:47:47
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##   1         0.000000000         0.000000000         0.000000000
##    Timestamp
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##   0         0.002666667         0.002666667         0.000000000
##   1         0.000000000         0.000000000         0.002666667
##    Timestamp
## Y   2016-03-05 23:02:11 2016-03-06 06:51:23 2016-03-06 09:33:46
##   0         0.002666667         0.000000000         0.000000000
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##    Timestamp
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##   1         0.002666667         0.002666667         0.002666667
##    Timestamp
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##   0         0.002666667         0.002666667         0.000000000
##   1         0.000000000         0.000000000         0.002666667
##    Timestamp
## Y   2016-03-08 05:12:57 2016-03-08 05:48:20 2016-03-08 10:39:16
##   0         0.002666667         0.002666667         0.002666667
##   1         0.000000000         0.000000000         0.000000000
##    Timestamp
## Y   2016-03-08 18:00:43 2016-03-09 00:41:46 2016-03-09 02:07:17
##   0         0.000000000         0.000000000         0.000000000
##   1         0.002666667         0.002666667         0.002666667
##    Timestamp
## Y   2016-03-09 03:41:30 2016-03-09 06:22:03 2016-03-09 12:10:08
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##   1         0.002666667         0.002666667         0.000000000
##    Timestamp
## Y   2016-03-09 14:45:33 2016-03-09 14:57:11 2016-03-10 01:36:19
##   0         0.002666667         0.002666667         0.000000000
```

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##   1         0.000000000         0.000000000         0.002666667
##    Timestamp
## Y   2016-03-10 07:07:31 2016-03-10 15:07:44 2016-03-10 23:26:54
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##   1         0.000000000         0.002666667         0.002666667
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##    Timestamp
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##   1         0.000000000         0.002666667         0.002666667
##    Timestamp
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##   1         0.000000000         0.000000000         0.002666667
##    Timestamp
## Y   2016-03-14 23:13:11 2016-03-15 11:25:48 2016-03-15 14:06:17
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##   1         0.002666667         0.002666667         0.002666667
##    Timestamp
## Y   2016-03-15 15:49:14 2016-03-15 17:33:15 2016-03-15 19:35:19
##   0         0.002666667         0.002666667         0.002666667
##   1         0.000000000         0.000000000         0.000000000
##    Timestamp
## Y   2016-03-15 20:19:20 2016-03-16 00:28:10 2016-03-16 07:59:37
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##   1         0.000000000         0.000000000         0.002666667
##    Timestamp
## Y   2016-03-16 20:10:53 2016-03-16 20:19:01 2016-03-17 05:00:12
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##   1         0.002666667         0.002666667         0.000000000
##    Timestamp
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##   1         0.002666667         0.002666667         0.000000000
##    Timestamp
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##   0         0.000000000         0.002666667         0.000000000
##   1         0.002666667         0.000000000         0.002666667
##    Timestamp
## Y   2016-03-18 16:04:59 2016-03-18 17:35:40 2016-03-19 14:23:45
##   0         0.002666667         0.002666667         0.002666667
##   1         0.000000000         0.000000000         0.000000000
##    Timestamp
## Y   2016-03-19 14:57:00 2016-03-20 02:44:13 2016-03-20 22:27:25
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##   1         0.000000000         0.002666667         0.000000000
##    Timestamp
```

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##   1         0.000000000         0.002666667         0.002666667
##    Timestamp
## Y   2016-03-21 21:15:54 2016-03-22 04:13:35 2016-03-22 06:41:38
##   0         0.002666667         0.002666667         0.000000000
##   1         0.000000000         0.000000000         0.002666667
##    Timestamp
## Y   2016-03-23 05:27:35 2016-03-23 06:00:15 2016-03-23 08:52:31
##   0         0.002666667         0.000000000         0.002666667
##   1         0.000000000         0.002666667         0.000000000
##    Timestamp
## Y   2016-03-23 09:43:43 2016-03-23 12:53:23 2016-03-23 19:58:15
##   0         0.002666667         0.000000000         0.000000000
##   1         0.000000000         0.002666667         0.002666667
##    Timestamp
## Y   2016-03-24 02:01:55 2016-03-24 02:35:54 2016-03-24 05:38:01
##   0         0.000000000         0.002666667         0.002666667
##   1         0.002666667         0.000000000         0.000000000
##    Timestamp
## Y   2016-03-24 09:12:52 2016-03-24 09:34:00 2016-03-24 13:37:53
##   0         0.000000000         0.000000000         0.000000000
##   1         0.002666667         0.002666667         0.002666667
##    Timestamp
## Y   2016-03-25 05:05:27 2016-03-25 06:36:53 2016-03-25 15:17:39
##   0         0.002666667         0.000000000         0.000000000
##   1         0.000000000         0.002666667         0.002666667
##    Timestamp
## Y   2016-03-25 19:02:35 2016-03-26 15:28:07 2016-03-27 00:53:11
##   0         0.000000000         0.000000000         0.002666667
##   1         0.002666667         0.002666667         0.000000000
##    Timestamp
## Y   2016-03-27 03:59:26 2016-03-27 08:32:37 2016-03-27 19:50:11
##   0         0.002666667         0.000000000         0.002666667
##   1         0.000000000         0.002666667         0.000000000
##    Timestamp
## Y   2016-03-27 23:59:06 2016-03-28 02:29:19 2016-03-28 23:01:24
##   0         0.000000000         0.002666667         0.002666667
##   1         0.002666667         0.000000000         0.000000000
##    Timestamp
## Y   2016-03-30 05:29:38 2016-03-30 14:36:55 2016-03-30 23:40:52
##   0         0.000000000         0.002666667         0.000000000
##   1         0.002666667         0.000000000         0.002666667
##    Timestamp
## Y   2016-03-31 08:53:43 2016-03-31 10:44:46 2016-04-01 01:57:12
##   0         0.000000000         0.002666667         0.000000000
##   1         0.002666667         0.000000000         0.002666667
##    Timestamp
## Y   2016-04-01 05:17:28 2016-04-01 07:37:18 2016-04-01 09:21:14
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##    Timestamp
## Y   2016-04-01 16:21:05 2016-04-03 05:10:31 2016-04-03 06:17:22
##   0         0.002666667         0.000000000         0.000000000
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##   1         0.000000000         0.002666667         0.002666667
##    Timestamp
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##   1         0.000000000         0.002666667         0.002666667
##    Timestamp
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##   1         0.002666667         0.000000000         0.000000000
##    Timestamp
## Y   2016-04-04 11:39:51 2016-04-04 18:36:59 2016-04-04 20:01:12
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##    Timestamp
## Y   2016-04-04 21:23:13 2016-04-04 22:00:15 2016-04-05 08:18:45
##   0         0.002666667         0.000000000         0.002666667
##   1         0.000000000         0.002666667         0.000000000
##    Timestamp
## Y   2016-04-05 18:02:49 2016-04-06 01:19:08 2016-04-06 17:26:37
##   0         0.002666667         0.000000000         0.002666667
##   1         0.000000000         0.002666667         0.000000000
##    Timestamp
## Y   2016-04-06 21:20:07 2016-04-06 23:10:40 2016-04-07 01:57:38
##   0         0.002666667         0.002666667         0.002666667
##   1         0.000000000         0.000000000         0.000000000
##    Timestamp
## Y   2016-04-07 03:56:16 2016-04-07 10:51:05 2016-04-07 15:18:10
##   0         0.002666667         0.000000000         0.000000000
##   1         0.000000000         0.002666667         0.002666667
##    Timestamp
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##    Timestamp
## Y   2016-04-07 20:38:02 2016-04-08 14:35:44 2016-04-08 22:40:55
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##   1         0.002666667         0.002666667         0.000000000
##    Timestamp
## Y   2016-04-08 22:48:25 2016-04-09 09:26:39 2016-04-09 16:31:15
##   0         0.000000000         0.002666667         0.000000000
##   1         0.002666667         0.000000000         0.002666667
##    Timestamp
## Y   2016-04-09 23:26:42 2016-04-10 00:13:47 2016-04-10 02:02:36
##   0         0.002666667         0.000000000         0.000000000
##   1         0.000000000         0.002666667         0.002666667
##    Timestamp
## Y   2016-04-10 03:30:16 2016-04-10 06:32:11 2016-04-10 14:48:35
##   0         0.000000000         0.002666667         0.002666667
##   1         0.002666667         0.000000000         0.000000000
##    Timestamp
## Y   2016-04-10 16:08:09 2016-04-12 03:26:39 2016-04-12 04:22:42
##   0         0.002666667         0.002666667         0.002666667
##   1         0.000000000         0.000000000         0.000000000
##    Timestamp
```

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## Y   2016-04-12 12:35:39 2016-04-12 14:01:08 2016-04-13 05:42:52
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##   1         0.002666667         0.002666667         0.002666667
##    Timestamp
## Y   2016-04-13 07:07:36 2016-04-14 05:08:35 2016-04-15 06:08:35
##   0         0.000000000         0.000000000         0.000000000
##   1         0.002666667         0.002666667         0.002666667
##    Timestamp
## Y   2016-04-15 10:18:55 2016-04-15 11:51:14 2016-04-15 15:07:17
##   0         0.002666667         0.002666667         0.000000000
##   1         0.000000000         0.000000000         0.002666667
##    Timestamp
## Y   2016-04-16 05:24:33 2016-04-16 08:36:08 2016-04-16 10:36:49
##   0         0.002666667         0.002666667         0.002666667
##   1         0.000000000         0.000000000         0.000000000
##    Timestamp
## Y   2016-04-16 11:53:43 2016-04-16 12:26:31 2016-04-16 14:15:55
##   0         0.002666667         0.002666667         0.002666667
##   1         0.000000000         0.000000000         0.000000000
##    Timestamp
## Y   2016-04-16 16:38:35 2016-04-17 05:08:52 2016-04-17 06:58:18
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##   1         0.000000000         0.002666667         0.000000000
##    Timestamp
## Y   2016-04-17 18:38:14 2016-04-17 19:10:56 2016-04-17 21:39:11
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##   1         0.000000000         0.000000000         0.002666667
##    Timestamp
## Y   2016-04-18 09:33:42 2016-04-18 15:54:33 2016-04-18 21:07:28
##   0         0.002666667         0.000000000         0.000000000
##   1         0.000000000         0.002666667         0.002666667
##    Timestamp
## Y   2016-04-19 07:34:28 2016-04-20 00:41:53 2016-04-20 13:36:42
##   0         0.000000000         0.000000000         0.000000000
##   1         0.002666667         0.002666667         0.002666667
##    Timestamp
## Y   2016-04-20 16:49:15 2016-04-21 09:30:35 2016-04-21 12:34:28
##   0         0.000000000         0.002666667         0.002666667
##   1         0.002666667         0.000000000         0.000000000
##    Timestamp
## Y   2016-04-21 18:31:27 2016-04-21 19:56:24 2016-04-22 00:28:18
##   0         0.000000000         0.000000000         0.000000000
##   1         0.002666667         0.002666667         0.002666667
##    Timestamp
## Y   2016-04-22 02:07:01 2016-04-22 07:48:33 2016-04-22 08:31:24
##   0         0.000000000         0.002666667         0.002666667
##   1         0.002666667         0.000000000         0.000000000
##    Timestamp
## Y   2016-04-22 19:45:19 2016-04-22 20:10:22 2016-04-22 20:32:17
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##   1         0.000000000         0.002666667         0.002666667
##    Timestamp
## Y   2016-04-22 22:01:21 2016-04-23 06:28:43 2016-04-23 08:15:31
##   0         0.000000000         0.000000000         0.002666667
```

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##   1         0.002666667         0.002666667         0.000000000
##    Timestamp
## Y   2016-04-23 09:42:08 2016-04-23 14:34:38 2016-04-24 01:48:21
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##   1         0.002666667         0.002666667         0.002666667
##    Timestamp
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##   0         0.002666667         0.000000000         0.002666667
##   1         0.000000000         0.002666667         0.000000000
##    Timestamp
## Y   2016-04-25 11:01:54 2016-04-25 16:58:50 2016-04-25 19:31:39
##   0         0.000000000         0.002666667         0.000000000
##   1         0.002666667         0.000000000         0.002666667
##    Timestamp
## Y   2016-04-25 21:15:39 2016-04-26 13:13:20 2016-04-26 21:45:50
##   0         0.000000000         0.002666667         0.002666667
##   1         0.002666667         0.000000000         0.000000000
##    Timestamp
## Y   2016-04-27 04:28:17 2016-04-27 09:27:58 2016-04-27 18:25:30
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##   1         0.000000000         0.000000000         0.002666667
##    Timestamp
## Y   2016-04-28 01:24:34 2016-04-28 02:55:10 2016-04-28 05:50:25
##   0         0.002666667         0.002666667         0.000000000
##   1         0.000000000         0.000000000         0.002666667
##    Timestamp
## Y   2016-04-28 18:34:56 2016-04-28 22:54:37 2016-04-29 07:49:01
##   0         0.002666667         0.002666667         0.002666667
##   1         0.000000000         0.000000000         0.000000000
##    Timestamp
## Y   2016-04-29 13:38:19 2016-04-29 14:08:26 2016-04-29 18:53:43
##   0         0.002666667         0.000000000         0.002666667
##   1         0.000000000         0.002666667         0.000000000
##    Timestamp
## Y   2016-04-29 20:40:21 2016-04-30 08:07:13 2016-04-30 19:42:04
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##   1         0.002666667         0.000000000         0.002666667
##    Timestamp
## Y   2016-05-01 00:23:13 2016-05-01 09:23:25 2016-05-01 21:46:37
##   0         0.000000000         0.000000000         0.002666667
##   1         0.002666667         0.002666667         0.000000000
##    Timestamp
## Y   2016-05-01 23:21:53 2016-05-02 00:01:56 2016-05-02 07:00:58
##   0         0.002666667         0.002666667         0.002666667
##   1         0.000000000         0.000000000         0.000000000
##    Timestamp
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##   1         0.002666667         0.002666667         0.000000000
##    Timestamp
## Y   2016-05-03 21:19:58 2016-05-04 00:01:33 2016-05-04 05:01:37
##   0         0.002666667         0.000000000         0.000000000
##   1         0.000000000         0.002666667         0.002666667
##    Timestamp
```

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## Y   2016-05-04 09:00:24 2016-05-04 12:06:18 2016-05-05 11:07:13
##   0         0.000000000         0.002666667         0.000000000
##   1         0.002666667         0.000000000         0.002666667
##    Timestamp
## Y   2016-05-06 21:07:31 2016-05-07 08:39:47 2016-05-08 08:10:10
##   0         0.000000000         0.002666667         0.002666667
##   1         0.002666667         0.000000000         0.000000000
##    Timestamp
## Y   2016-05-08 10:25:08 2016-05-08 12:08:26 2016-05-08 12:12:04
##   0         0.000000000         0.002666667         0.000000000
##   1         0.002666667         0.000000000         0.002666667
##    Timestamp
## Y   2016-05-08 15:38:46 2016-05-08 22:24:27 2016-05-08 22:47:18
##   0         0.002666667         0.000000000         0.002666667
##   1         0.000000000         0.002666667         0.000000000
##    Timestamp
## Y   2016-05-09 02:58:58 2016-05-09 07:13:27 2016-05-09 08:44:55
##   0         0.000000000         0.000000000         0.000000000
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##    Timestamp
## Y   2016-05-09 10:21:48 2016-05-10 04:28:55 2016-05-10 07:22:37
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##    Timestamp
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##   1         0.002666667         0.000000000         0.002666667
##    Timestamp
## Y   2016-05-13 06:09:28 2016-05-13 11:51:10 2016-05-13 11:57:12
##   0         0.000000000         0.000000000         0.000000000
##   1         0.002666667         0.002666667         0.002666667
##    Timestamp
## Y   2016-05-13 14:12:39 2016-05-14 14:49:05 2016-05-14 23:08:14
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##   1         0.000000000         0.002666667         0.000000000
##    Timestamp
## Y   2016-05-15 13:18:34 2016-05-15 18:44:50 2016-05-16 14:50:22
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##   1         0.000000000         0.002666667         0.002666667
##    Timestamp
## Y   2016-05-16 18:51:59 2016-05-17 04:27:31 2016-05-17 06:14:20
##   0         0.000000000         0.002666667         0.000000000
##   1         0.002666667         0.000000000         0.002666667
##    Timestamp
## Y   2016-05-17 18:06:46 2016-05-18 00:07:43 2016-05-18 01:00:52
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##   1         0.000000000         0.000000000         0.000000000
##    Timestamp
## Y   2016-05-18 03:19:03 2016-05-18 19:33:51 2016-05-19 03:52:24
##   0         0.000000000         0.002666667         0.000000000
```

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##   1         0.002666667         0.000000000         0.002666667
##    Timestamp
## Y   2016-05-19 04:23:41 2016-05-19 11:16:59 2016-05-20 00:00:48
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##   1         0.002666667         0.000000000         0.002666667
##    Timestamp
## Y   2016-05-20 12:17:59 2016-05-20 21:31:24 2016-05-21 01:36:16
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##   1         0.000000000         0.000000000         0.002666667
##    Timestamp
## Y   2016-05-22 15:17:25 2016-05-22 20:49:37 2016-05-22 21:54:23
##   0         0.002666667         0.002666667         0.002666667
##   1         0.000000000         0.000000000         0.000000000
##    Timestamp
## Y   2016-05-23 00:32:54 2016-05-23 02:15:04 2016-05-23 08:06:24
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##   1         0.002666667         0.000000000         0.002666667
##    Timestamp
## Y   2016-05-23 21:00:45 2016-05-23 21:14:38 2016-05-24 09:50:41
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## Y   2016-05-25 00:19:57 2016-05-25 00:34:59 2016-05-25 10:39:28
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##   1         0.002666667         0.002666667         0.000000000
##    Timestamp
## Y   2016-05-26 15:40:26 2016-05-26 22:49:47 2016-05-27 05:23:26
##   0         0.002666667         0.000000000         0.002666667
##   1         0.000000000         0.002666667         0.000000000
##    Timestamp
## Y   2016-05-27 05:35:27 2016-05-27 05:54:03 2016-05-27 06:19:27
##   0         0.000000000         0.000000000         0.002666667
##   1         0.002666667         0.002666667         0.000000000
##    Timestamp
## Y   2016-05-27 08:53:51 2016-05-28 12:20:15 2016-05-28 20:41:50
##   0         0.000000000         0.002666667         0.002666667
##   1         0.002666667         0.000000000         0.000000000
##    Timestamp
## Y   2016-05-29 18:12:00 2016-05-30 08:02:27 2016-05-30 18:08:19
##   0         0.000000000         0.000000000         0.000000000
##   1         0.002666667         0.002666667         0.002666667
##    Timestamp
## Y   2016-05-30 20:07:59 2016-05-30 21:22:22 2016-05-31 00:58:37
##   0         0.000000000         0.002666667         0.000000000
##   1         0.002666667         0.000000000         0.002666667
##    Timestamp
```

```
## Y   2016-05-31 02:17:18 2016-05-31 06:21:02 2016-05-31 09:06:29
##   0         0.000000000         0.000000000         0.000000000
##   1         0.002666667         0.002666667         0.002666667
##    Timestamp
## Y   2016-05-31 11:44:45 2016-05-31 17:50:15 2016-05-31 21:41:46
##   0         0.000000000         0.000000000         0.000000000
##   1         0.002666667         0.002666667         0.002666667
##    Timestamp
## Y   2016-05-31 23:32:00 2016-05-31 23:42:26 2016-06-01 03:17:50
##   0         0.002666667         0.002666667         0.000000000
##   1         0.000000000         0.000000000         0.002666667
##    Timestamp
## Y   2016-06-01 09:27:34 2016-06-01 12:27:17 2016-06-02 04:14:37
##   0         0.002666667         0.000000000         0.000000000
##   1         0.000000000         0.002666667         0.002666667
##    Timestamp
## Y   2016-06-02 21:02:22 2016-06-02 22:16:08 2016-06-03 00:55:23
##   0         0.002666667         0.000000000         0.000000000
##   1         0.000000000         0.002666667         0.002666667
##    Timestamp
## Y   2016-06-03 01:14:41 2016-06-03 03:36:18 2016-06-03 04:51:46
##   0         0.000000000         0.002666667         0.002666667
##   1         0.002666667         0.000000000         0.000000000
##    Timestamp
## Y   2016-06-03 06:34:44 2016-06-03 07:00:36 2016-06-03 17:32:47
##   0         0.002666667         0.002666667         0.002666667
##   1         0.000000000         0.000000000         0.000000000
##    Timestamp
## Y   2016-06-03 21:43:21 2016-06-04 09:13:29 2016-06-05 07:54:30
##   0         0.000000000         0.002666667         0.000000000
##   1         0.002666667         0.000000000         0.002666667
##    Timestamp
## Y   2016-06-05 13:16:24 2016-06-05 21:38:22 2016-06-05 22:11:34
##   0         0.002666667         0.002666667         0.000000000
##   1         0.000000000         0.000000000         0.002666667
##    Timestamp
## Y   2016-06-06 21:26:51 2016-06-06 22:41:24 2016-06-07 01:29:06
##   0         0.002666667         0.002666667         0.002666667
##   1         0.000000000         0.000000000         0.000000000
##    Timestamp
## Y   2016-06-07 05:41:16 2016-06-07 23:46:51 2016-06-08 12:25:49
##   0         0.002666667         0.002666667         0.002666667
##   1         0.000000000         0.000000000         0.000000000
##    Timestamp
## Y   2016-06-08 18:54:01 2016-06-08 20:13:27 2016-06-09 14:24:06
##   0         0.002666667         0.002666667         0.000000000
##   1         0.000000000         0.000000000         0.002666667
##    Timestamp
## Y   2016-06-09 17:11:02 2016-06-10 00:35:15 2016-06-10 03:56:41
##   0         0.000000000         0.000000000         0.002666667
##   1         0.002666667         0.002666667         0.000000000
##    Timestamp
## Y   2016-06-10 04:21:57 2016-06-10 10:11:00 2016-06-10 22:21:10
##   0         0.002666667         0.002666667         0.002666667
```

```
##   1         0.000000000         0.000000000         0.000000000
##    Timestamp
## Y   2016-06-11 06:47:55 2016-06-11 08:38:16 2016-06-11 09:37:52
##   0         0.002666667         0.000000000         0.000000000
##   1         0.000000000         0.002666667         0.002666667
##    Timestamp
## Y   2016-06-12 05:31:19 2016-06-12 11:17:25 2016-06-12 15:25:44
##   0         0.002666667         0.000000000         0.000000000
##   1         0.000000000         0.002666667         0.002666667
##    Timestamp
## Y   2016-06-13 06:11:33 2016-06-13 11:06:40 2016-06-13 17:27:09
##   0         0.000000000         0.002666667         0.000000000
##   1         0.002666667         0.000000000         0.002666667
##    Timestamp
## Y   2016-06-13 18:50:00 2016-06-13 22:41:45 2016-06-14 07:02:09
##   0         0.000000000         0.002666667         0.002666667
##   1         0.002666667         0.000000000         0.000000000
##    Timestamp
## Y   2016-06-14 11:59:58 2016-06-14 12:08:10 2016-06-15 05:30:13
##   0         0.000000000         0.000000000         0.002666667
##   1         0.002666667         0.002666667         0.000000000
##    Timestamp
## Y   2016-06-15 11:56:41 2016-06-16 02:01:24 2016-06-16 02:33:22
##   0         0.000000000         0.000000000         0.002666667
##   1         0.002666667         0.002666667         0.000000000
##    Timestamp
## Y   2016-06-16 03:17:45 2016-06-17 03:02:55 2016-06-17 03:23:13
##   0         0.002666667         0.002666667         0.002666667
##   1         0.000000000         0.000000000         0.000000000
##    Timestamp
## Y   2016-06-17 17:11:16 2016-06-17 20:18:27 2016-06-17 23:19:38
##   0         0.000000000         0.002666667         0.002666667
##   1         0.002666667         0.000000000         0.000000000
##    Timestamp
## Y   2016-06-18 01:42:37 2016-06-18 05:17:33 2016-06-18 16:02:34
##   0         0.002666667         0.002666667         0.000000000
##   1         0.000000000         0.000000000         0.002666667
##    Timestamp
## Y   2016-06-18 16:32:58 2016-06-18 17:23:26 2016-06-18 17:56:32
##   0         0.000000000         0.000000000         0.000000000
##   1         0.002666667         0.002666667         0.002666667
##    Timestamp
## Y   2016-06-18 22:31:22 2016-06-19 09:24:35 2016-06-19 18:19:38
##   0         0.000000000         0.002666667         0.002666667
##   1         0.002666667         0.000000000         0.000000000
##    Timestamp
## Y   2016-06-19 23:21:38 2016-06-20 02:25:12 2016-06-20 06:30:06
##   0         0.002666667         0.002666667         0.002666667
##   1         0.000000000         0.000000000         0.000000000
##    Timestamp
## Y   2016-06-20 08:22:09 2016-06-20 08:34:46 2016-06-21 00:52:47
##   0         0.002666667         0.000000000         0.002666667
##   1         0.000000000         0.002666667         0.000000000
##    Timestamp
```

```
## Y   2016-06-21 03:14:41 2016-06-21 13:15:21 2016-06-22 05:22:58
##   0         0.000000000         0.000000000         0.000000000
##   1         0.002666667         0.002666667         0.002666667
##    Timestamp
## Y   2016-06-22 07:33:21 2016-06-22 17:19:09 2016-06-23 00:16:02
##   0         0.002666667         0.002666667         0.002666667
##   1         0.000000000         0.000000000         0.000000000
##    Timestamp
## Y   2016-06-23 01:22:43 2016-06-23 11:05:01 2016-06-24 05:50:22
##   0         0.000000000         0.000000000         0.002666667
##   1         0.002666667         0.002666667         0.000000000
##    Timestamp
## Y   2016-06-24 08:42:20 2016-06-24 21:09:58 2016-06-25 00:33:23
##   0         0.000000000         0.002666667         0.002666667
##   1         0.002666667         0.000000000         0.000000000
##    Timestamp
## Y   2016-06-25 04:21:33 2016-06-25 17:33:35 2016-06-25 18:17:53
##   0         0.000000000         0.000000000         0.000000000
##   1         0.002666667         0.002666667         0.002666667
##    Timestamp
## Y   2016-06-26 02:06:59 2016-06-26 02:34:15 2016-06-26 04:22:26
##   0         0.000000000         0.000000000         0.002666667
##   1         0.002666667         0.002666667         0.000000000
##    Timestamp
## Y   2016-06-26 11:52:18 2016-06-26 17:16:26 2016-06-26 17:25:55
##   0         0.000000000         0.000000000         0.002666667
##   1         0.002666667         0.002666667         0.000000000
##    Timestamp
## Y   2016-06-27 01:56:36 2016-06-27 21:51:47 2016-06-28 09:19:06
##   0         0.000000000         0.000000000         0.000000000
##   1         0.002666667         0.002666667         0.002666667
##    Timestamp
## Y   2016-06-28 12:51:02 2016-06-28 20:13:41 2016-06-29 01:19:21
##   0         0.000000000         0.002666667         0.002666667
##   1         0.002666667         0.000000000         0.000000000
##    Timestamp
## Y   2016-06-29 02:43:29 2016-06-29 03:07:51 2016-06-29 04:23:10
##   0         0.000000000         0.002666667         0.002666667
##   1         0.002666667         0.000000000         0.000000000
##    Timestamp
## Y   2016-06-29 07:20:46 2016-06-29 09:04:31 2016-06-29 13:35:05
##   0         0.002666667         0.000000000         0.000000000
##   1         0.000000000         0.002666667         0.002666667
##    Timestamp
## Y   2016-06-29 21:39:42 2016-06-30 00:19:33 2016-06-30 00:43:40
##   0         0.000000000         0.000000000         0.000000000
##   1         0.002666667         0.002666667         0.002666667
##    Timestamp
## Y   2016-07-01 01:12:04 2016-07-01 04:41:57 2016-07-02 00:24:22
##   0         0.000000000         0.002666667         0.002666667
##   1         0.002666667         0.000000000         0.000000000
##    Timestamp
## Y   2016-07-02 14:57:53 2016-07-02 20:23:15 2016-07-02 21:22:23
##   0         0.002666667         0.002666667         0.002666667
```

```
##   1         0.000000000         0.000000000         0.000000000
##    Timestamp
## Y   2016-07-03 04:33:41 2016-07-03 09:22:30 2016-07-03 12:57:03
##   0         0.000000000         0.000000000         0.002666667
##   1         0.002666667         0.002666667         0.000000000
##    Timestamp
## Y   2016-07-03 22:13:19 2016-07-04 23:17:47 2016-07-05 00:54:11
##   0         0.000000000         0.002666667         0.000000000
##   1         0.002666667         0.000000000         0.002666667
##    Timestamp
## Y   2016-07-05 15:14:10 2016-07-05 17:17:49 2016-07-05 18:59:45
##   0         0.002666667         0.002666667         0.000000000
##   1         0.000000000         0.000000000         0.002666667
##    Timestamp
## Y   2016-07-05 20:16:13 2016-07-05 22:33:48 2016-07-06 05:34:52
##   0         0.002666667         0.002666667         0.002666667
##   1         0.000000000         0.000000000         0.000000000
##    Timestamp
## Y   2016-07-06 15:56:39 2016-07-06 18:36:01 2016-07-06 23:09:07
##   0         0.000000000         0.000000000         0.000000000
##   1         0.002666667         0.002666667         0.002666667
##    Timestamp
## Y   2016-07-07 03:55:01 2016-07-07 12:17:33 2016-07-07 13:37:34
##   0         0.002666667         0.000000000         0.002666667
##   1         0.000000000         0.002666667         0.000000000
##    Timestamp
## Y   2016-07-07 18:07:19 2016-07-07 23:32:38 2016-07-08 21:18:32
##   0         0.000000000         0.002666667         0.002666667
##   1         0.002666667         0.000000000         0.000000000
##    Timestamp
## Y   2016-07-08 22:30:10 2016-07-09 11:04:54 2016-07-09 11:18:02
##   0         0.002666667         0.000000000         0.000000000
##   1         0.000000000         0.002666667         0.002666667
##    Timestamp
## Y   2016-07-09 14:55:36 2016-07-10 16:25:56 2016-07-10 17:24:51
##   0         0.002666667         0.000000000         0.000000000
##   1         0.000000000         0.002666667         0.002666667
##    Timestamp
## Y   2016-07-10 19:15:52 2016-07-11 01:42:51 2016-07-11 15:45:23
##   0         0.002666667         0.002666667         0.002666667
##   1         0.000000000         0.000000000         0.000000000
##    Timestamp
## Y   2016-07-12 10:56:21 2016-07-13 04:10:53 2016-07-13 07:41:42
##   0         0.002666667         0.000000000         0.000000000
##   1         0.000000000         0.002666667         0.002666667
##    Timestamp
## Y   2016-07-13 11:41:29 2016-07-13 14:05:22 2016-07-13 14:30:14
##   0         0.002666667         0.002666667         0.002666667
##   1         0.000000000         0.000000000         0.000000000
##    Timestamp
## Y   2016-07-13 21:31:14 2016-07-14 12:07:10 2016-07-14 22:43:29
##   0         0.002666667         0.000000000         0.000000000
##   1         0.000000000         0.002666667         0.002666667
##    Timestamp
```

```
## Y   2016-07-15 09:08:42 2016-07-15 09:42:19 2016-07-15 15:43:36
##   0         0.000000000         0.002666667         0.000000000
##   1         0.002666667         0.000000000         0.002666667
##    Timestamp
## Y   2016-07-16 05:56:42 2016-07-16 10:14:04 2016-07-16 14:13:54
##   0         0.000000000         0.000000000         0.002666667
##   1         0.002666667         0.002666667         0.000000000
##    Timestamp
## Y   2016-07-16 23:08:54 2016-07-17 01:13:56 2016-07-17 01:58:53
##   0         0.000000000         0.000000000         0.002666667
##   1         0.002666667         0.002666667         0.000000000
##    Timestamp
## Y   2016-07-17 14:26:04 2016-07-17 18:55:38 2016-07-17 22:04:54
##   0         0.000000000         0.002666667         0.002666667
##   1         0.002666667         0.000000000         0.000000000
##    Timestamp
## Y   2016-07-18 02:51:19 2016-07-18 04:53:22 2016-07-18 11:33:31
##   0         0.002666667         0.000000000         0.000000000
##   1         0.000000000         0.002666667         0.002666667
##    Timestamp
## Y   2016-07-18 18:33:05 2016-07-19 07:59:18 2016-07-19 08:32:10
##   0         0.002666667         0.000000000         0.000000000
##   1         0.000000000         0.002666667         0.002666667
##    Timestamp
## Y   2016-07-19 12:05:58 2016-07-19 18:06:22 2016-07-20 01:56:33
##   0         0.002666667         0.002666667         0.002666667
##   1         0.000000000         0.000000000         0.000000000
##    Timestamp
## Y   2016-07-20 13:21:37 2016-07-20 23:08:28 2016-07-21 10:01:50
##   0         0.002666667         0.002666667         0.002666667
##   1         0.000000000         0.000000000         0.000000000
##    Timestamp
## Y   2016-07-21 16:02:40 2016-07-21 20:30:06 2016-07-21 21:16:35
##   0         0.000000000         0.002666667         0.000000000
##   1         0.002666667         0.000000000         0.002666667
##    Timestamp
## Y   2016-07-21 23:14:35 2016-07-22 07:44:43 2016-07-22 11:05:10
##   0         0.002666667         0.000000000         0.002666667
##   1         0.000000000         0.002666667         0.000000000
##    Timestamp
## Y   2016-07-23 04:04:42 2016-07-23 04:37:05 2016-07-23 06:18:51
##   0         0.000000000         0.002666667         0.002666667
##   1         0.002666667         0.000000000         0.000000000
##    Timestamp
## Y   2016-07-23 11:46:28 2016-07-23 14:47:23 2016-07-24 00:22:16
##   0         0.000000000         0.000000000         0.000000000
##   1         0.002666667         0.002666667         0.002666667
```

```
# Predicting our testing set
#
Predict <- predict(classifier,newdata = testing )
predict
```

```
## function (object, ...)
```

```
## UseMethod("predict")
## <bytecode: 0x000000000ec1f710>
## <environment: namespace:stats>
```

```
confusionMatrix(Predict, testing$Clicked.on.Ad )
```

```
## Confusion Matrix and Statistics
##
##           Reference
## Prediction   0   1
##          0 122   1
##          1   3 124
##
##                Accuracy : 0.984
##                  95% CI : (0.9595, 0.9956)
##     No Information Rate : 0.5
##     P-Value [Acc > NIR] : <2e-16
##
##                   Kappa : 0.968
##
##  Mcnemar's Test P-Value : 0.6171
##
##             Sensitivity : 0.9760
##             Specificity : 0.9920
##          Pos Pred Value : 0.9919
##          Neg Pred Value : 0.9764
##              Prevalence : 0.5000
##          Detection Rate : 0.4880
##    Detection Prevalence : 0.4920
##       Balanced Accuracy : 0.9840
##
##        'Positive' Class : 0
##
```

The accuracy is 95%. The incorrect classifications are 4 and7, making it a total of 11 misclassifications.

CONCLUSION:

The highest level of income is between 60000-65000

The highest amount of time spent on thee site is between 75 and 80.

The highest level of daily internet usage is between 100 and 150, and between 225 and 250.

The highest number of people are aged between 30 and 40.

The daily time spent on the site does not influence the clicking of the ad.

Age has no influence on whether one clicks on the ad or not.

The area income has no relationship with the clicking of an ad.

The daily internet usage does not influence clicking on an ad.

As age increases, the level of income decreases.

As age increases, the time spent on the site decreases.

As age increases, the time spent on the internet decreases.

RECOMMENDATION:

The ad should be targeted on the younger individuals.

The reason is because they are the majority people

Another reason is that they spend more time on the internet

They also spend more time on the site, compared to the older individuals.

Another reason is that they earn mre income an can therefore afford the course.

‘‘‘