Customer Segmentation

Problem Definition

Kira Plastinina is a Russian brand that is sold through a defunct chain of retail stores in Russia, Ukraine, Kazakhstan, Belarus, China, Philippines, and Armenia. The brand's Sales and Marketing team would like to understand their customer's behavior from data that they have collected over the past year. More specifically, they would like to learn the characteristics of customer groups.

Data Sourcing

Data being used in this study was provided by Moringa School

Data Description

- The dataset consists of 10 numerical and 8 categorical attributes.
- The Revenue attribute can be used as the class label.
- "Administrative", "Administrative Duration", "Informational", "Informational Duration", "Product Related" and "Product Related Duration" represents the number of different types of pages visited by the visitor in that session and total time spent in each of these page categories. The values of these features are derived from the URL information of the pages visited by the user and updated in real-time when a user takes an action, e.g. moving from one page to another.

Metrics Measured by Google Analytics

- 1. The value of the **Bounce Rate** feature for a web page refers to the percentage of visitors who enter the site from that page and then leave ("bounce") without triggering any other requests to the analytics server during that session.
- 2. The value of the **Exit Rate** feature for a specific web page is calculated as for all pageviews to the page, the percentage that was the last in the session.
- 3. The **Page Value** feature represents the average value for a web page that a user visited before completing an e-commerce transaction.
- The Special Day feature indicates the closeness of the site visiting time to a specific special day (e.g. Mother's Day, Valentine's Day) in which the sessions are more likely to be finalized with the transaction. The value of this attribute is determined by considering the dynamics of e-commerce such as the duration between the order date and delivery date. For example, for Valentina's day, this value takes a nonzero value between February 2 and February 12, zero before and after this date unless it is close to another special day, and its maximum value of 1 on February 8.
- The dataset also includes the operating system, browser, region, traffic type, visitor type as returning or new visitor, a Boolean value indicating whether the date of the visit is weekend, and month of the year.

Reading/Checking data

```
#Loading the data
df <-read.csv("http://bit.ly/EcommerceCustomersDataset", header = TRUE)
#Showing head of data
head(df)</pre>
```

```
Administrative Administrative_Duration Informational Informational_Duration
##
## 1
       0
                                  0
                                        0
## 2
              0
                                   0
                                               0
                                                                   0
## 3
              0
                                               0
                                   -1
                                                                  -1
## 4
              0
                                   0
                                               0
                                                                   0
## 5
              0
                                   0
                                               0
                                                                   0
              0
    ProductRelated ProductRelated_Duration BounceRates ExitRates PageValues
##
       1
                            0.000000 0.20000000 0.2000000
## 1
## 2
              2
                             64.000000 0.00000000 0.1000000
                            -1.000000 0.20000000 0.2000000
              1
## 3
                                                               0
              2
## 4
                             2.666667 0.05000000 0.1400000
                                                                0
              10
## 5
                          627.500000 0.02000000 0.0500000
                                                                0
             19
                          154.216667 0.01578947 0.0245614
    {\tt SpecialDay\ Month\ OperatingSystems\ Browser\ Region\ TrafficType}
##
     0 Feb
## 1
                             1
                                   1
                                         1
          0 Feb
## 2
                               2
                                     2
                                            1
                                                      2
## 3
          0 Feb
                               4
                                     1
                                            9
                                                      3
                               3
                                          2
## 4
          0 Feb
                                     2
                                                     4
                                    3 1
2 1
                              3
          0 Feb
                                                     4
## 5
## 6
          0 Feb
                              2
       VisitorType Weekend Revenue
## 1 Returning_Visitor FALSE FALSE
## 2 Returning_Visitor FALSE FALSE
## 3 Returning_Visitor FALSE FALSE
## 4 Returning_Visitor FALSE FALSE
## 5 Returning_Visitor TRUE FALSE
## 6 Returning_Visitor FALSE
                            FALSE
```

```
#Checking for dimensions and class types str(df)
```

```
## 'data.frame': 12330 obs. of 18 variables:
## $ Administrative : int 000000100...
## $ Administrative_Duration: num 0 0 -1 0 0 0 -1 -1 0 0 ...
## $ Informational : int 0 0 0 0 0 0 0 0 0 ...
## $ Informational_Duration : num 0 0 -1 0 0 0 -1 -1 0 0 ...
## $ ProductRelated : int 1 2 1 2 10 19 1 1 2 3 ...
## $ ProductRelated_Duration: num 0 64 -1 2.67 627.5 ...
## $ BounceRates : num 0.2 0 0.2 0.05 0.02 ...
                          : num 0.2 0.1 0.2 0.14 0.05 ...
## $ ExitRates
## $ PageValues
                          : num 0000000000...
## $ SpecialDay
                          : num 0 0 0 0 0 0 0.4 0 0.8 0.4 ...
## $ OperatingSystems : int 1 2 4 3 3 2 2 1 2 2 ...
## $ Browser : int 1 2 1 2 3 2 4 2 2 4
## $ Month
                          : chr "Feb" "Feb" "Feb" "Feb" ...
## $ Region
                          : int 1192113121...
                       : int 1 2 3 4 4 3 3 5 3 2 ...
: chr "Returning_Visitor" "Returning_Visitor" "Returning_Visitor"
: logi FALSE FALSE FALSE TRUE FALSE ...
## $ TrafficType
## $ VisitorType
## $ Weekend
## $ Revenue
                           : logi FALSE FALSE FALSE FALSE FALSE ...
```

Data has 12330 observations(rows) and 18 variables(columns) We have integers, numerics, character and logical features in our dataset.

```
summary((df))
```

```
## Administrative Administrative_Duration Informational

      Min. : 0.000
      Min. : -1.00
      Min. : 0.000

      1st Qu.: 0.000
      1st Qu.: 0.00
      1st Qu.: 0.000

      Median : 1.000
      Median : 8.00
      Median : 0.000

## Median : 1.000 Median : 8.00
                                  Mean : 0.504
3rd Qu.: 0.000
Max. :24.000
NA's :14
## Mean : 2.318 Mean : 80.91
## 3rd Qu.: 4.000 3rd Qu.: 93.50
## Max. :27.000 Max. :3398.75
## NA's :14 NA's :14
  Informational_Duration ProductRelated ProductRelated_Duration
##
   Min. : -1.00 Min. : 0.00 Min. : -1.0
   1st Qu.: 0.00
                      1st Qu.: 7.00 1st Qu.: 185.0
##
## Median : 0.00
                      Median : 18.00 Median : 599.8
## Mean : 34.51
                      Mean : 31.76 Mean : 1196.0
                      3rd Qu.: 38.00 3rd Qu.: 1466.5
## 3rd Qu.: 0.00
                      Max. :705.00 Max. :63973.5
## Max. :2549.38
                   NA'S
ExitRates
                      NA's :14
## NA's :14
                                      NA's :14
   BounceRates
                                    PageValues
##
                                                     SpecialDay
## Min. :0.000000 Min. :0.00000 Min. : 0.000 Min. :0.00000
## 1st Qu.:0.000000 1st Qu.:0.01429 1st Qu.: 0.000 1st Qu.:0.00000
## Median :0.003119 Median :0.02512 Median : 0.000 Median :0.00000
## Mean :0.022152 Mean :0.04300 Mean : 5.889 Mean :0.06143
## 3rd Qu.:0.016684 3rd Qu.:0.05000 3rd Qu.: 0.000 3rd Qu.:0.00000
## Max. :0.200000 Max. :0.20000 Max. :361.764 Max. :1.00000
##
   NA's :14
                    NA's :14
                    OperatingSystems Browser
##
   Month
                                                  Region
## Length:12330 Min. :1.000 Min. : 1.000 Min. :1.000
## Mode :character Median :2.000 Median : 2.000 Median :3.000
##
                    Mean :2.124 Mean : 2.357 Mean :3.147
                    3rd Qu.:3.000 3rd Qu.: 2.000 3rd Qu.:4.000
##
                    Max. :8.000 Max. :13.000 Max. :9.000
##
##
   TrafficType
                                  Weekend
##
                 VisitorType
                                                Revenue
## Min. : 1.00 Length:12330
                                 Mode :logical Mode :logical
## 1st Qu.: 2.00 Class :character FALSE:9462 FALSE:10422
## Median : 2.00
                Mode :character TRUE :2868 TRUE :1908
## Mean : 4.07
## 3rd Qu.: 4.00
##
   Max. :20.00
##
```

Data Cleaning

```
# Changing the type of the loaded dataset to a dataframe
df = as.data.frame(df)

# Cleaning column names, by making them uniform
colnames(df) = tolower(colnames(df))

#Checking for duplicated rows
duplicated_rows <- df[duplicated(df),]
dim(duplicated_rows)</pre>
```

```
#Dropping duplicated rows
 df <- df[!duplicated(df), ]</pre>
 dim(df)
 ## [1] 12211
                  18
 #Checking for missing values
 colSums(is.na(df))
              administrative administrative_duration
 ##
                                                                informational
 ##
                         12
     informational_duration
                                     productrelated productrelated_duration
 ##
 ##
                                                  12
 ##
                 bouncerates
                                           exitrates
                                                                   pagevalues
 ##
                         12
                                                 12
                                               month operatingsystems
 ##
                 specialday
 ##
                                                  0
                     browser
                                              region
                                                                traffictype
 ##
                                                   0
                                                                           0
 ##
                           0
                                           weekend
 ##
                visitortype
                                                                     revenue
 ##
                                                   0
                                                                            0
Since this data is generated from a website, it doesn't make sense that we have missing values. We will therefore
drop this values.
 #Dropping missing values
 df = na.omit(df)
 colSums(is.na(df))
 ##
              administrative administrative_duration
                                                               informational
 ##
     informational_duration
                                     productrelated productrelated_duration
 ##
 ##
 ##
                 bouncerates
                                           exitrates
                                                                  pagevalues
 ##
                                                   0
 ##
                 specialday
                                              month
                                                           operatingsystems
                         0
                                                  0
  ##
  ##
                    browser
                                             region
                                                                traffictype
 ##
                                                0
                 visitortype
 ##
                                             weekend
                                                                     revenue
                                                   0
                                                                            0
  ##
 dim(df)
 ## [1] 12199
 library(magrittr)
 library(tidyverse)
```

```
## -- Attaching packages ----
                                                                ----- tidvverse
## v ggplot2 3.3.2
                   v purrr 0.3.4
## v tibble 3.0.2 v dplyr 1.0.0
## v tidyr 1.1.0 v stringr 1.4.0
## v readr 1.3.1 v forcats 0.5.0
## -- Conflicts ----- tidyverse_confl.
## x tidyr::extract() masks magrittr::extract()
## x dplyr::filter() masks stats::filter()
## x dplyr::lag() masks stats::lag()
## x purrr::set_names() masks magrittr::set_names()
cat_cols = c('month', 'operatingsystems', 'browser', 'region', 'traffictype', 'visitortyp
# Changing columns to factors
df[,cat_cols] %<>% lapply(function(x) as.factor(as.character(x)))
str(df)
## 'data.frame': 12199 obs. of 18 variables:
## $ administrative : int 0 0 0 0 0 0 1 0 0 ...
## $ administrative_duration: num 0 0 -1 0 0 0 -1 -1 0 0 ...
## $ informational : int 0000000000...
## $ informational_duration : num 0 0 -1 0 0 0 -1 -1 0 0 ...
## $ productrelated : int 1 2 1 2 10 19 1 1 2 3 ...
## $ productrelated_duration: num 0 64 -1 2.67 627.5 ...
                  : num 0.2 0 0.2 0.05 0.02 ...
## $ bouncerates
## $ exitrates
                          : num 0.2 0.1 0.2 0.14 0.05 ...
## $ pagevalues
                         : num 0000000000...
## $ specialday
                         : num 0 0 0 0 0 0 0.4 0 0.8 0.4 ...
                         : Factor w/ 10 levels "Aug", "Dec", "Feb", ...: 3 3 3 3 3 3 3 3 3 3 .
## $ month
## $ operatingsystems : Factor w/ 8 levels "1", "2", "3", "4", ...: 1 2 4 3 3 2 2 1 2 2 ...
                        : Factor w/ 13 levels "1", "10", "11", ...: 1 6 1 6 7 6 8 6 6 8 ...
## $ browser
## $ region
                         : Factor w/ 9 levels "1", "2", "3", "4", ...: 1 1 9 2 1 1 3 1 2 1 ...
## $ traffictype
                         : Factor w/ 20 levels "1", "10", "11", ...: 1 12 14 15 15 14 14 16 14
## $ visitortype
                         : Factor w/ 3 levels "New_Visitor",..: 3 3 3 3 3 3 3 3 3 ...
## $ weekend
                         : logi FALSE FALSE FALSE FALSE TRUE FALSE ...
## $ revenue
                         : logi FALSE FALSE FALSE FALSE FALSE ...
## - attr(*, "na.action")= 'omit' Named int [1:12] 1050 1116 1117 1118 1119 1443 1444 1445 14
## ... attr(*, "names")= chr [1:12] "1066" "1133" "1134" "1135" ...
head(df)
```

```
## administrative administrative_duration informational informational_duration
       0
## 1
                                   0
                                                0
## 2
               0
                                    0
                                                0
                                                                     0
## 3
               0
                                                0
                                   -1
                                                                    -1
## 4
              0
                                    0
                                                0
                                                                     0
## 5
              0
                                    0
                                                0
                                                                     0
               0
##
    productrelated productrelated_duration bouncerates exitrates pagevalues
                             0.000000 0.20000000 0.2000000
## 1
       1
## 2
               2
                             64.000000 0.00000000 0.1000000
                            -1.000000 0.20000000 0.2000000
              1
## 3
                                                                0
## 4
              2
                             2.666667 0.05000000 0.1400000
                                                                0
             10
## 5
                           627.500000 0.02000000 0.0500000
                                                                 0
             19
                           154.216667 0.01578947 0.0245614
## 6
## specialday month operatingsystems browser region traffictype
    0 Feb
## 1
                              1 1
                                         1
          0 Feb
## 2
                               2
                                      2
                                             1
                                                       2
## 3
          0 Feb
                               4
                                      1
                                            9
                                                      3
                                     2 2
3 1
2 1
         0 Feb
0 Feb
                               3
                                                      4
## 4
                               3
                                                      4
## 5
## 6
          0 Feb
                               2
       visitortype weekend revenue
## 1 Returning_Visitor FALSE FALSE
## 2 Returning_Visitor FALSE FALSE
## 3 Returning_Visitor FALSE FALSE
## 4 Returning_Visitor FALSE FALSE
## 5 Returning_Visitor TRUE FALSE
## 6 Returning_Visitor FALSE FALSE
#Checking for unique values to see whether we have any abnormal values
#uniq <- df %<>% lapply(function(x)unique(x)))
```

There are no abnormal values. Next we check for outliers

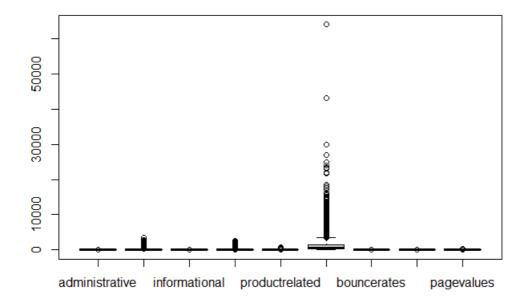
#uniq

```
colnames(df)
## [1] "administrative"
                                  "administrative_duration"
## [3] "informational"
                                  "informational_duration"
## [5] "productrelated"
                                  "productrelated_duration"
                                  "exitrates"
## [7] "bouncerates"
                                  "specialday"
## [9] "pagevalues"
## [11] "month"
                                  "operatingsystems"
## [13] "browser"
                                  "region"
## [15] "traffictype"
                                  "visitortype"
                                  "revenue"
## [17] "weekend"
#Checking for outliers
```

```
#Checking for outliers
#First we select numeric columns
nums <- subset(df, select = -c(specialday, month, operatingsystems, browser, region, traffictype head(nums)</pre>
```

```
##
     administrative administrative_duration informational informational_duration
## 1
## 2
                  0
                                            0
                                                          0
                                                                                   0
## 3
                  0
                                           -1
                                                          0
                                                                                  -1
## 4
                  0
                                            0
                                                          0
                                                                                  0
## 5
                                            0
                                                                                  0
## 6
##
     productrelated productrelated_duration bouncerates exitrates pagevalues
                  1
                                    0.000000 0.20000000 0.2000000
## 1
## 2
                                   64.000000 0.00000000 0.1000000
                                                                              0
## 3
                  1
                                   -1.000000 0.20000000 0.2000000
                                                                              0
## 4
                  2
                                    2.666667 0.05000000 0.1400000
## 5
                 10
                                  627.500000 \quad 0.02000000 \ 0.0500000
                                                                              0
## 6
                                  154.216667 0.01578947 0.0245614
```

boxplot(nums)



All of the

numerical columns have outliers. It is also important to note that a few of this have negative values. But since we are dealing with customers and reatails have all sort of customers who have different values and capabilities we will leave these outliers as they are. This way we will be able to capture this groups when grouping the customers.

Data Exploration

1. Distributions of numerical values

library(ggplot2)
library(psych)

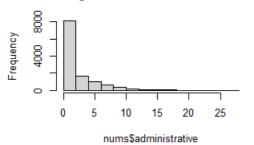
```
##
## Attaching package: 'psych'
## The following objects are masked from 'package:ggplot2':
##
## %+%, alpha
```

```
#Central tendency
describe(nums)
```

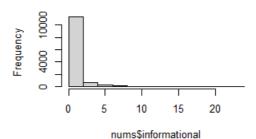
```
## vars n mean sd median trimmed mad min ## administrative 1 12199 2.34 3.33 1.00 1.66 1.48 0
## administrative_duration 2 12199 81.68 177.53 9.00 42.87 13.34 -1
## informational 3 12199 0.51 1.28 0.00 0.18 0.00 0
## productrelated_duration 6 12199 1207.51 1919.93 609.54 832.36 745.12 -1 ## bouncerates 7 12199 0.02 0.05 0.00 0.01 0.00 0
##
                      max range skew kurtosis se
## administrative 27.00 27.00 1.95 4.63 0.03
## administrative_duration 3398.75 3399.75 5.59 50.09 1.61
## informational
                     24.00 24.00 4.01 26.64 0.01
## informational_duration 2549.38 2550.38 7.54 75.45 1.28
## productrelated 705.00 705.00 4.33 31.04 0.40
## productrelated_duration 63973.52 63974.52 7.25 136.57 17.38
## bouncerates
             0.20 0.20 3.15 9.25 0.00
## exitrates
                      0.20 0.20 2.23
                                        4.62 0.00
                    361.76 361.76 6.35 64.93 0.17
## pagevalues
```

```
#Plotting histograms to show distribution of variables
par(mfrow = c(2, 2))
hist(nums$administrative)
hist(nums$informational)
hist(nums$bouncerates)
hist(nums$exitrates)
```

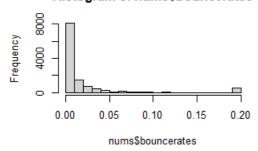
Histogram of nums\$administrative



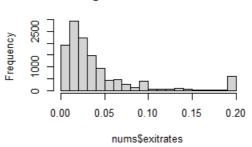
Histogram of nums\$informational



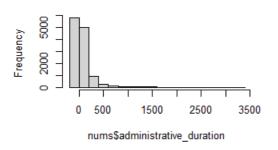
Histogram of nums\$bouncerates



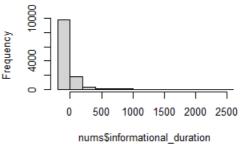
Histogram of nums\$exitrates



```
par(mfrow = c(2, 2))
hist(nums$administrative_duration)
hist(nums$informational_duration)
hist(nums$productrelated_duration)
hist(nums$pagevalues)
```

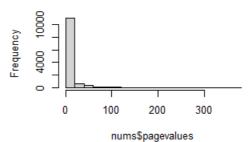


Histogram of nums\$administrative_duratic Histogram of nums\$informational_duratio

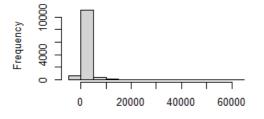


Histogram of nums\$productrelated_duration

nums\$productrelated_duration



Histogram of nums\$pagevalues



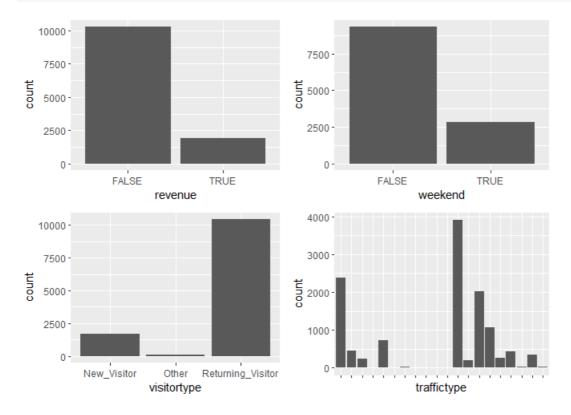
Conclusions

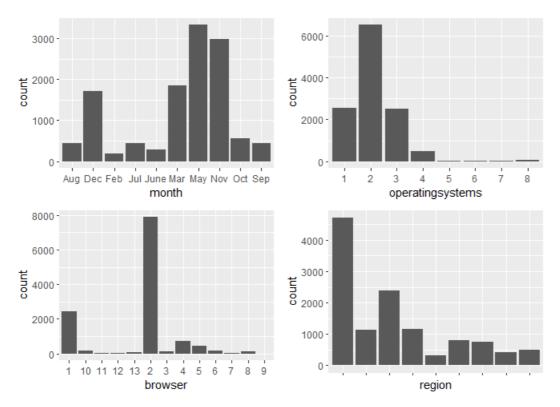
From the central tendency we see that: 1. All variables have a sample size of 12199 2. Product related duration have the largest figures and range, meaning peole visiting the website spend alot of time in the product related page 3. People also spend a considerable amount of time checking on the administration 4. People spend the least of time checking out the information related page

From the above distributions we can conclude that 1. Our numerical values are skewed to the left 2. They don't follow a normal distribution 3. Variables dealing with duration have larger values because they represent duration

2. Categorical data Analysis

```
#install.packages("ggpubr")
library(ggpubr)
```

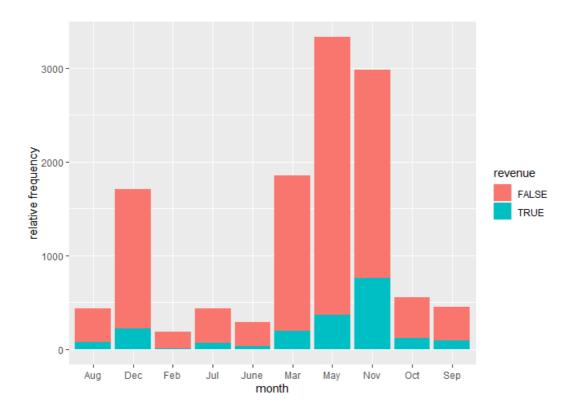




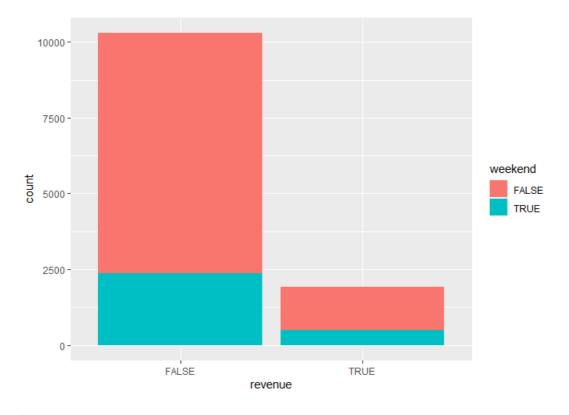
Conclusions 1. Most of the traffic in the website doesn't generate any revenue 2. There is more traffic on weekdays than weekends, but the traffic on weekends is relatively high considering that weekends consist of only 2 days per week. 3. Most of the people visiting the website are returning visitors, only a small percentage are new 4. There is alot of traffic in the website in May, November, March and Dec 5. Almost 5000 of the traffic in the website for the year was from region 1, around 2,300 from region 3 and the other regions ranging from 1000 to 300 individuals.

3. Bivariate Analysis

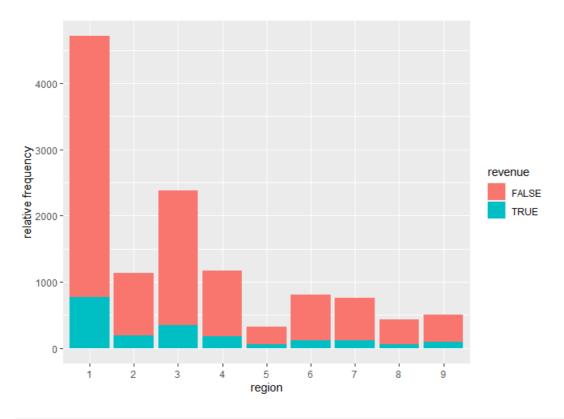
```
#Revenue generation per month
df %>%
   ggplot() +
   aes(x = month, revenue = ..count../nrow(df), fill = revenue) +
   geom_bar() +
   ylab("relative frequency")
```



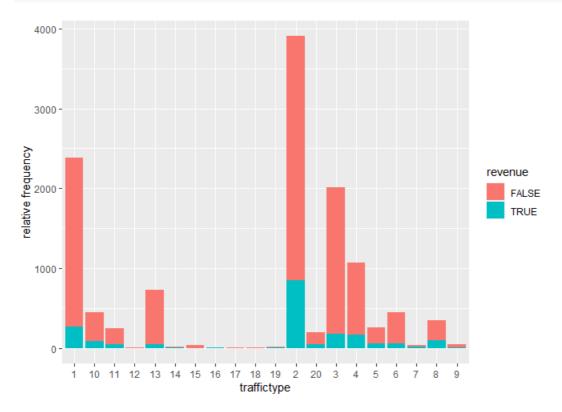
```
#Checking how weekends generated revenue as compared to weekdays
ggplot(df,
    aes(x = revenue,
        fill = weekend)) +
geom_bar(position = "stack")
```



```
df %>%
  ggplot() +
  aes(x = region, revenue = ..count../nrow(df), fill = revenue) +
  geom_bar() +
  ylab("relative frequency")
```

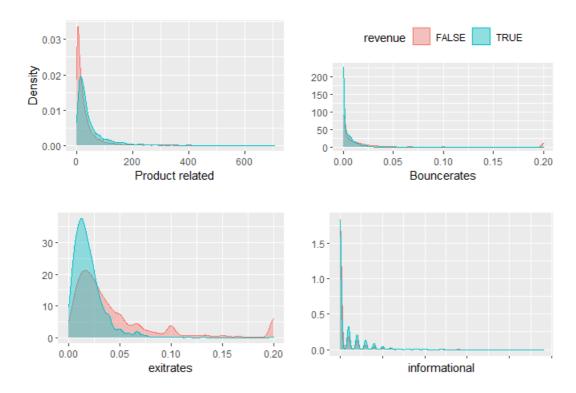


```
df %>%
  ggplot() +
  aes(x = traffictype, revenue = ..count../nrow(df), fill = revenue) +
  geom_bar() +
  ylab("relative frequency")
```



Conclusions 1. Most of the revenue is generated during weekdays, but a relative amount is generated on weekends 2. The month of November had most revenue, i.e most people who visit the site actually purchased 3. Traffic from region 1 seem to purchase from the website but also they are the most frequent 4. Traffic type 2 has the highest revenue count

```
#Checking the distribution of different variables in relation to revenue
options(repr.plot.width = 11, repr.plot.height = 5)
p1 = ggplot(df, aes(productrelated, col = revenue)) +
  geom\_density(aes(fill = revenue), alpha = 0.4) +
  labs(x = 'Product related', y = 'Density', title = '') +
  theme(legend.position = 'none',
       plot.title = element_text(size = 12))
p2 = ggplot(df, aes(bouncerates, col = revenue)) +
  geom_density(aes(fill = revenue), alpha = 0.4) +
  labs(x = 'Bouncerates', y = '', title = '') +
  theme(legend.position = 'top')
p3 = ggplot(df, aes(exitrates, col = revenue)) +
  geom_density(aes(fill = revenue), alpha = 0.4) +
  labs(x = 'exitrates', y = '', title = '') +
  theme(legend.position = 'none',
       plot.title = element_text(size = 12))
p4 = ggplot(df, aes(informational, col = revenue)) +
  geom_density(aes(fill = revenue), alpha = 0.4) +
  labs(x = 'informational', y = '', title = '') +
  theme(legend.position = 'none',
       plot.title = element_text(size = 12))
ggarrange(p1, p2, p3, p4 + rremove("x.text"),
          ncol = 2, nrow = 2)
```



```
## Installing package into 'C:/Users/Karimi/Documents/R/win-library/4.0'
## (as 'lib' is unspecified)

## Warning: unable to access index for repository https://mran.microsoft.com/snapshot/2020-07-
## cannot open URL 'https://mran.microsoft.com/snapshot/2020-07-16/src/contrib/PACKAGES'

## Warning: package 'corrplot' is not available (for R version 4.0.2)

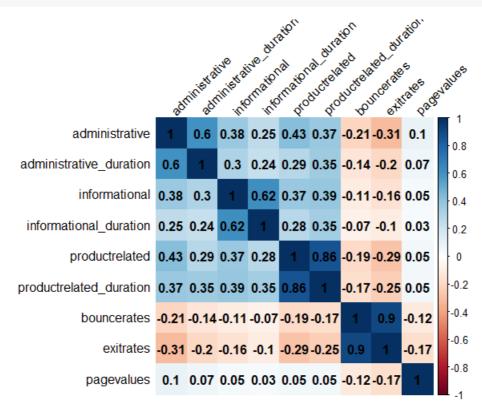
## Warning: unable to access index for repository https://mran.microsoft.com/snapshot/2020-07-
## cannot open URL 'https://mran.microsoft.com/snapshot/2020-07-16/bin/windows/contrib/4.0/P.

| Iibrary(corrplot)

## corrplot 0.84 loaded

#Get the correlation matrix res = cor(nums)
#Plotting a correlation plot

corrplot(res, method="color",addCoef.col = "black", tl.col="black", tl.srt=45)
```



Conclusions *

There is a strong positive correlation between a page and the duration taken by visitors on that page, for example product related and product related duration * There is also a strong correlation between exitrates and bounce rates

Implement the Solution

Feature Engineering

```
#converting the variable weekend to a dummy
#with weekend being a '1' and a weekday being a '0'
mod.data <- df %>%
  mutate(Weekend_binary = ifelse(weekend == "FALSE",0,1))
head(mod.data)
```

```
## administrative administrative_duration informational informational_duration
## 1 0
                                0 0
## 2
               0
                                                    0
                                       0
                                                                           0
               0
                                                    0
## 3
                                       -1
                                                                          -1
## 4
                0
                                       0
                                                     0
                                                                           0
## 5
                0
                                       Θ
                                                    0
                                                                           0
                0
## 6
                                       0
                                                    Θ
## productrelated productrelated_duration bouncerates exitrates pagevalues
      1 0.000000 0.20000000 0.2000000 0
2 64.000000 0.00000000 0.1000000 0
1 -1.000000 0.20000000 0.2000000 0
2 2.666667 0.05000000 0.1400000 0
10 627.500000 0.02000000 0.0500000 0
19 154.216667 0.01578947 0.0245614 0
## 1
## 2
## 3
## 4
## 5
## 6
## specialday month operatingsystems browser region traffictype
## 1 0 Feb 1 1 1 1
## 2
           0 Feb
                                 2
                                         2
                                                1
## 2 0 Feb 2 2 1
## 3 0 Feb 4 1 9
## 4 0 Feb 3 2 2
## 5 0 Feb 3 3 1
## 6 0 Feb 2 2 1
                                         1 9
                                                            3
                                                            4
                                                            4
      visitortype weekend revenue Weekend_binary
## 1 Returning_Visitor FALSE FALSE 0
## 2 Returning_Visitor FALSE FALSE
                                                0
                                                0
## 3 Returning_Visitor FALSE FALSE
## 4 Returning_Visitor FALSE FALSE
                                                0
## 5 Returning_Visitor TRUE FALSE
                                                1
## 6 Returning_Visitor FALSE FALSE
```

```
#Removing the target column and weekday column
mod <- subset(mod.data, select = -c(weekend))
#Separating features from target
mod.new <- mod[, c(1,2,3,4,5,6,7,8,9,10)]
mod.class <- mod[, "revenue"]
head(mod.new)</pre>
```

```
## administrative administrative_duration informational informational_duration
                                     0
## 1 0
                                 0
## 2
              0
                                  0
                                             0
                                                                 0
## 3
              0
                                 -1
                                             0
                                                                -1
                                             0
             0
## 4
                                  0
                                                                 0
## 5
              0
                                  0
                                             Θ
                                                                 0
              0
## productrelated productrelated_duration bouncerates exitrates pagevalues
                           0.000000 0.20000000 0.2000000
## 1
       1
## 2
              2
                           64.000000 0.00000000 0.1000000
                          -1.000000 0.20000000 0.2000000
             1
## 3
                                                             0
             2
## 4
                           2.666667 0.05000000 0.1400000
                                                             0
            10
                         627.500000 0.02000000 0.0500000
## 5
                                                            0
                         154.216667 0.01578947 0.0245614
## 6
            19
## specialday
## 1
     Θ
## 2
          0
## 3
          0
          0
## 4
## 5
          0
## 6
```

```
#Normalizing data
normalize <- function(x) {</pre>
return ((x - min(x)) / (max(x) - min(x)))
## Creating a copy of the original data.
data.mod <- mod.new</pre>
## Normalizing our 10 variables.
data.mod$administrative <- normalize(data.mod$administrative)</pre>
data.mod$administrative_duration <- normalize(data.mod$administrative_duration)</pre>
data.mod$informational <- normalize(data.mod$informational)</pre>
data.mod$informational_duration <- normalize(data.mod$informational_duration)</pre>
data.mod$productrelated <- normalize(data.mod$productrelated)</pre>
data.mod$productrelated_duration <- normalize(data.mod$productrelated_duration)</pre>
data.mod$bouncerates <- normalize(data.mod$bouncerates)</pre>
data.mod$exitrates <- normalize(data.mod$exitrates)</pre>
data.mod$pagevalues <- normalize(data.mod$pagevalues)</pre>
data.mod$specialday <- normalize(data.mod$specialday)</pre>
head(data.mod)
```

```
## administrative administrative_duration informational informational_duration
                    0.0002941393
0.0002941393
0.00000000000
## 1 0 0.0002941393 0 0.0003920992
## 2 0 0.0002941393 0 0.0003920992
## 3 0 0.000000000 0 0.0000000000
## 4 0 0.0002941393 0 0.0003920992
                                       0
0
0
                                            0
0
              0
## 5
                        0.0002941393
                                                        0.0003920992
              0 0.0002941393 0
                                                        0.0003920992
## productrelated productrelated_duration bouncerates exitrates pagevalues
0
                                                              0
                                                              0
## specialday
## 1
      0
          0
## 2
## 3
          0
## 4
          0
          0
## 5
## 6
```

Modelling

1. K-Means Clustering

```
#Load the packages as follow:
library(factoextra)

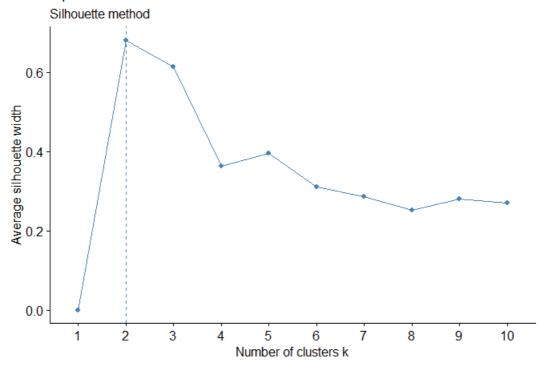
## Welcome! Want to learn more? See two factoextra-related books at https://goo.gl/ve3wBa

library(NbClust)

#Getting the optimal number of clusters
# Silhouette method

fviz_nbclust(data.mod, kmeans, method = "silhouette")+
    labs(subtitle = "Silhouette method")
```

Optimal number of clusters



```
#Modelling using centroid = 2
set.seed(5)
model_k <- kmeans(data.mod,2, iter.max = 100)
#Viewing centers of the clusters
model_k$centers</pre>
```

```
## administrative administrative_duration informational informational_duration
## 1  0.093656006  0.0262669218  0.0228950327  0.0151795833
## 2  0.002185662  0.0007844135  0.0007153076  0.0004178465

## productrelated productrelated_duration bouncerates exitrates pagevalues
## 1  0.048844961  0.020367634  0.04366175  0.1511488  0.01781518
## 2  0.004708855  0.001032834  0.81031289  0.8885226  0.000000000
## specialday
## 1  0.05710482
## 2  0.12081545
```

model_k\$cluster

##	1	2	3	4	5	6	7	8	9	10	11	12	13
##	2	1	2	1	1	1	2	2	1	1	1	1	1
##	14	15	16	17	18	19	20	21	22	23	24	25	26
##	1	1	1	2	1	1	1	1	2	1	1	2	1
##	27	28	29	30	31	32	33	34	35	36	37	38	39
##	1	1	1	1	1	1	1	1	1	1	1	1	1
##	40	41	42	43	44	45	46	47	48	49	50	51	52
##	1	1	1	1	1	1	1	1	2	1	2	2	1
##	53	54	55	56	57	58	59	60	61	62	63	64	65
##	1	1	1	2	2	1	1	1	1	1	1	1	2
##	66	67	68	69	70	71	72	73	74	75	76	77	78
##	1	1	2	1	2	2	1	1	1	1	1	1	1
##	79	80	81	82	83	84	85	86	87	88	89	90	91
##	2	2	1	1	1	1	2	2	1	1	1	1	1
##	92	93	94	95	96	97	98	99	100	101	102	103	104
##	2	1	1	1	1	1	1	1	1	1	1	1	1
##	105	106	107	108	109	110	111	112	113	114	115	116	117
		^	4	4	-	-	-	^	^	4	4	-	-

44.44													
##	1	2	1	1	1	1	1	2	2	1	1	1	1
##	118	119	120	121	122	123	124	125	126	127	128	129	130
##	1	1	1	1	1	1	1	1	2	1	1	1	2
##	131	132	133	134	135	136	137	138	139	140	141	142	143
##	1	1	2	1	1	1	1	1	2	1	2	1	1
##	144	145	146	147	148	149	150	151	152	153	154	155	156
##	2	1	1	1	1	1	1	1	2	2	1	1	1
##	157	158	159	160	161	162	163	164	165	166	167	168	169
##	2	1	2	1	1	1	1	1	1	1	2	1	1
##	170	171	172	173	174	175	176	177	178	179	180	181	182
##	1	1	1	2	1	1	1	1	1	1	2	2	1
##	183	184	185	186	187	188	189	190	191	192	193	194	195
##	1	1	1	1	1	1	2	1	1	1	1	1	1
##	196	197	198	199	200	201	202	203	204	205	206	207	208
##	1	1	1	1	1	1	1	1	1	1	1	1	1
##	209	210	211	212	213	214	215	216	217	218	219	220	221
##	1	1	1	1	1	1	1	1	1	1	1	2	2
##	222	223	224	225	226	227	228	229	230	231	232	233	234
##	1	1	1	1	1	1	1	1	1	1	1	1	1
##	235	236	237	238	239	240	241	242	243	244	245	246	247
##	1	1	1	1	1	1	1	1	1	1	1	1	1
##	248	249	250	251	252	253	254	255	256	257	258	259	260
##	1	1	1	2	2	1	1	1	1	1	1	1	2
##	261	262	263	264	265	266	267	268	269	270 2	271	272	273
##	1 274	1 275	276	277	279	270	1	201	1		204	1	1 286
##	274 1	1	276 1	277 1	278 1	279 1	280 1	281 1	282 1	283 1	284 1	285 2	200
##	287	288	289	290	291	292	293	294	295	296	297	298	299
##	1	200	209	290	291	292	293	294	295	290	291	290	299
##	300	301	302	303	304	305	306	307	308	309	310	311	312
##	1	2	1	1	1	1	1	1	1	1	1	1	1
##	313	314	315	316	317	318	319	320	321	322	323	324	325
##	1	1	1	1	1	1	1	1	1	1	1	1	1
##	326	327	328	329	330	331	332	333	334	335	336	337	338
##	1	1	1	2	1	1	1	1	1	1	1	1	1
##	339	340	341	342	343	344	345	346	347	348	349	350	351
##	1	2	2	1	2	1	1	1	1	1	1	1	1
##	352	353	354	355	356	357	358	359	360	361	362	363	364
##	1											303	
##	365		1	2	1	1	2		1	1	1		1
	303	1 366		2 368	1 369	1 370	2 371	1	1 373	1 374	1 375	1	1 377
##	305		367	368	1 369 1	370	371	1 372	373	374	375	1 376	377
##		366			369			1	373			1 376	
	1	366 1	367 1	368 1	369 1	370 1	371 1	1 372 1	373 1	374 1	375 1	1 376 1	377 1
##	1 378	366 1 379	367 1 380	368 1 381	369 1 382	370 1 383	371 1 384	1 372 1 385	373 1 386	374 1 387	375 1 388	1 376 1 389	377 1 390
## ##	1 378 1	366 1 379 1	367 1 380 2	368 1 381 1	369 1 382 2	370 1 383 1	371 1 384 1	1 372 1 385 1	373 1 386 1	374 1 387 1	375 1 388 1	1 376 1 389 1	377 1 390 1
## ## ##	1 378 1 391	366 1 379 1 392	367 1 380 2 393	368 1 381 1 394	369 1 382 2 395	370 1 383 1 396	371 1 384 1 397	1 372 1 385 1 398	373 1 386 1 399	374 1 387 1 400	375 1 388 1 401	1 376 1 389 1 402	377 1 390 1 403
## ## ## ##	1 378 1 391 1	366 1 379 1 392 1	367 1 380 2 393 1	368 1 381 1 394 1	369 1 382 2 395 1	370 1 383 1 396 1	371 1 384 1 397 2	1 372 1 385 1 398 1	373 1 386 1 399 1	374 1 387 1 400 1	375 1 388 1 401 1	1 376 1 389 1 402	377 1 390 1 403 1
## ## ## ##	1 378 1 391 1 404	366 1 379 1 392 1 405	367 1 380 2 393 1 406	368 1 381 1 394 1 407	369 1 382 2 395 1 408	370 1 383 1 396 1 409	371 1 384 1 397 2 410	1 372 1 385 1 398 1 411	373 1 386 1 399 1 412	374 1 387 1 400 1 413	375 1 388 1 401 1 414	1 376 1 389 1 402 1 415	377 1 390 1 403 1 416
## ## ## ## ##	1 378 1 391 1 404	366 1 379 1 392 1 405	367 1 380 2 393 1 406 1	368 1 381 1 394 1 407	369 1 382 2 395 1 408	370 1 383 1 396 1 409	371 1 384 1 397 2 410 1	1 372 1 385 1 398 1 411	373 1 386 1 399 1 412	374 1 387 1 400 1 413	375 1 388 1 401 1 414 1	1 376 1 389 1 402 1 415	377 1 390 1 403 1 416 1
## ## ## ## ##	1 378 1 391 1 404 1 417	366 1 379 1 392 1 405 1 418	367 1 380 2 393 1 406 1 419	368 1 381 1 394 1 407 1 420	369 1 382 2 395 1 408 1 421	370 1 383 1 396 1 409 1	371 1 384 1 397 2 410 1 423	1 372 1 385 1 398 1 411 1	373 1 386 1 399 1 412 1 425	374 1 387 1 400 1 413 1 426	375 1 388 1 401 1 414 1 427	1 376 1 389 1 402 1 415 1	377 1 390 1 403 1 416 1
## ## ## ## ## ##	1 378 1 391 1 404 1 417	366 1 379 1 392 1 405 1 418 1	367 1 380 2 393 1 406 1 419	368 1 381 1 394 1 407 1 420 1	369 1 382 2 395 1 408 1 421 1	370 1 383 1 396 1 409 1 422 1	371 1 384 1 397 2 410 1 423	1 372 1 385 1 398 1 411 1 424 2	373 1 386 1 399 1 412 1 425 1	374 1 387 1 400 1 413 1 426 1	375 1 388 1 401 1 414 1 427 2	1 376 1 389 1 402 1 415 1 428	377 1 390 1 403 1 416 1 429
## ## ## ## ## ##	1 378 1 391 1 404 1 417 1 430	366 1 379 1 392 1 405 1 418 1 431	367 1 380 2 393 1 406 1 419 2 432	368 1 381 1 394 1 407 1 420 1 433	369 1 382 2 395 1 408 1 421 1 434	370 1 383 1 396 1 409 1 422 1 435	371 1 384 1 397 2 410 1 423 1 436	1 372 1 385 1 398 1 411 1 424 2	373 1 386 1 399 1 412 1 425 1 438	374 1 387 1 400 1 413 1 426 1 439	375 1 388 1 401 1 414 1 427 2 440	1 376 1 389 1 402 1 415 1 428 1	377 1 390 1 403 1 416 1 429 1
## ## ## ## ## ## ##	1 378 1 391 1 404 1 417 1 430	366 1 379 1 392 1 405 1 418 1 431	367 1 380 2 393 1 406 1 419 2 432 1	368 1 381 1 394 1 407 1 420 1 433 1	369 1 382 2 395 1 408 1 421 1 434 1	370 1 383 1 396 1 409 1 422 1 435 1	371 1 384 1 397 2 410 1 423 1 436 1	1 372 1 385 1 398 1 411 1 424 2 437	373 1 386 1 399 1 412 1 425 1 438 1	374 1 387 1 400 1 413 1 426 1 439 1	375 1 388 1 401 1 414 1 427 2 440	1 376 1 389 1 402 1 415 1 428 1 441	377 1 390 1 403 1 416 1 429 1 442 1
## ## ## ## ## ## ##	1 378 1 391 1 404 1 417 1 430 1	366 1 379 1 392 1 405 1 418 1 431 1	367 1 380 2 393 1 406 1 419 2 432 1 445	368 1 381 1 394 1 407 1 420 1 433 1 446	369 1 382 2 395 1 408 1 421 1 434 1 447	370 1 383 1 396 1 409 1 422 1 435 1 448	371 1 384 1 397 2 410 1 423 1 436 1 449	1 372 1 385 1 398 1 411 1 424 2 437 1 450	373 1 386 1 399 1 412 1 425 1 438 1 451	374 1 387 1 400 1 413 1 426 1 439 1 452	375 1 388 1 401 1 414 1 427 2 440 1 453	1 376 1 389 1 402 1 415 1 428 1 441 1 454	377 1 390 1 403 1 416 1 429 1 442 1 455
## ## ## ## ## ## ##	1 378 1 391 1 404 1 417 1 430 1 443	366 1 379 1 392 1 405 1 418 1 431 1 444 1	367 1 380 2 393 1 406 1 419 2 432 1 445 1	368 1 381 1 394 1 407 1 420 1 433 1 446 1 459 1	369 1 382 2 395 1 408 1 421 1 434 1 447 1 460 1	370 1 383 1 396 1 409 1 422 1 435 1 448 1	371 1 384 1 397 2 410 1 423 1 436 1 449 1 462 1	1 372 1 385 1 398 1 411 1 424 2 437 1 450	373 1 386 1 399 1 412 1 425 1 438 1 451 1 464 1	374 1 387 1 400 1 413 1 426 1 439 1 452 1	375 1 388 1 401 1 414 1 427 2 440 1 453 1	1 376 1 389 1 402 1 415 1 428 1 441 1 454	377 1 390 1 403 1 416 1 429 1 442 1 455 2
## ## ## ## ## ## ## ##	1 378 1 391 1 404 1 417 1 430 1 443 1 456 1 469	366 1 379 1 392 1 405 1 418 1 431 1 444 1 457	367 1 380 2 393 1 406 1 419 2 432 1 445 1 458	368 1 381 1 394 1 407 1 420 1 433 1 446 1 459	369 1 382 2 395 1 408 1 421 1 434 1 447 1 460	370 1 383 1 396 1 409 1 422 1 435 1 448 1 461	371 1 384 1 397 2 410 1 423 1 436 1 449 1 462	1 372 1 385 1 398 1 411 1 424 2 437 1 450 1 463 1 476	373 1 386 1 399 1 412 1 425 1 438 1 451 1 464 1 477	374 1 387 1 400 1 413 1 426 1 439 1 452 1 465 2 478	375 1 388 1 401 1 414 1 427 2 440 1 453 1 466	1 376 1 389 1 402 1 415 1 428 1 441 1 454 1	377 1 390 1 403 1 416 1 429 1 442 1 455 2 468 2 481
## ## ## ## ## ## ## ##	1 378 1 391 1 404 1 417 1 430 1 443 1 456	366 1 379 1 392 1 405 1 418 1 431 1 444 1 457	367 1 380 2 393 1 406 1 419 2 432 1 445 1 458 1	368 1 381 1 394 1 407 1 420 1 433 1 446 1 459 1	369 1 382 2 395 1 408 1 421 1 434 1 447 1 460 1	370 1 383 1 396 1 409 1 422 1 435 1 448 1 461 1	371 1 384 1 397 2 410 1 423 1 436 1 449 1 462 1 475 1	1 372 1 385 1 398 1 411 1 424 2 437 1 450 1	373 1 386 1 399 1 412 1 425 1 438 1 451 1 464 1	374 1 387 1 400 1 413 1 426 1 439 1 452 1 465 2	375 1 388 1 401 1 414 1 427 2 440 1 453 1 466 1	1 376 1 389 1 402 1 415 1 428 1 441 1 454 1 467 1 480	377 1 390 1 403 1 416 1 429 1 442 1 455 2 468 2
## ## ## ## ## ## ## ##	1 378 1 391 1 404 1 417 1 430 1 443 1 456 1 469 2 482	366 1 379 1 392 1 405 1 418 1 431 1 444 1 457 1 470 1 483	367 1 380 2 393 1 406 1 419 2 432 1 445 1 458 1 471	368 1 381 1 394 1 407 1 420 1 433 1 446 1 459 1 472	369 1 382 2 395 1 408 1 421 1 434 1 447 1 460 1 473 1 486	370 1 383 1 396 1 409 1 422 1 435 1 448 1 461 1 474	371 1 384 1 397 2 410 1 423 1 436 1 449 1 462 1 475	1 372 1 385 1 398 1 411 1 424 2 437 1 450 1 463 1 476	373 1 386 1 399 1 412 1 425 1 438 1 451 1 464 1 477 1 490	374 1 387 1 400 1 413 1 426 1 439 1 452 1 465 2 478	375 1 388 1 401 1 414 1 427 2 440 1 453 1 466 1 479	1 376 1 389 1 402 1 415 1 428 1 441 1 454 1 467 1 480	377 1 390 1 403 1 416 1 429 1 442 1 455 2 468 2 481 1 494
## ## ## ## ## ## ## ## ## ##	1 378 1 391 1 404 1 417 1 430 1 443 1 456 1 469 2 482	366 1 379 1 392 1 405 1 418 1 431 1 444 1 457 1 470 1 483 1	367 1 380 2 393 1 406 1 419 2 432 1 445 1 458 1 471 1 484 1	368 1 381 1 394 1 407 1 420 1 433 1 446 1 459 1 472 1 485 1	369 1 382 2 395 1 408 1 421 1 434 1 447 1 460 1 473 1 486 1	370 1 383 1 396 1 409 1 422 1 435 1 448 1 461 1 474 1 487 1	371 1 384 1 397 2 410 1 423 1 436 1 449 1 462 1 475 1 488 1	1 372 1 385 1 398 1 411 1 424 2 437 1 450 1 463 1 476 2 489	373 1 386 1 399 1 412 1 425 1 438 1 451 1 464 1 477 1 490 1	374 1 387 1 400 1 413 1 426 1 439 1 452 1 465 2 478 1 491 1	375 1 388 1 401 1 414 1 427 2 440 1 453 1 466 1 479 1 492 1	1 376 1 389 1 402 1 415 1 428 1 441 1 454 1 467 1 480 1 493 1	377 1 390 1 403 1 416 1 429 1 442 1 455 2 468 2 481 1 494 1
## ## ## ## ## ## ## ## ## ## ##	1 378 1 391 1 404 1 417 1 430 1 443 1 456 1 469 2 482 1 495	366 1 379 1 392 1 405 1 418 1 431 1 444 1 457 1 470 1 483 1 496	367 1 380 2 393 1 406 1 419 2 432 1 445 1 458 1 471 1 484 1 497	368 1 381 1 394 1 407 1 420 1 433 1 446 1 459 1 472 1 485 1 498	369 1 382 2 395 1 408 1 421 1 434 1 447 1 460 1 473 1 486 1 499	370 1 383 1 396 1 409 1 422 1 435 1 448 1 461 1 474 1 487 1 500	371 1 384 1 397 2 410 1 423 1 436 1 449 1 462 1 475 1 488 1 501	1 372 1 385 1 398 1 411 1 424 2 437 1 450 1 463 1 476 2 489 1 502	373 1 386 1 399 1 412 1 425 1 438 1 451 1 464 1 477 1 490 1 503	374 1 387 1 400 1 413 1 426 1 439 1 452 1 465 2 478 1 491 1 504	375 1 388 1 401 1 414 1 427 2 440 1 453 1 466 1 479 1 492 1 505	1 376 1 389 1 402 1 415 1 428 1 441 1 454 1 467 1 480 1 493 1	377 1 390 1 403 1 416 1 429 1 442 1 455 2 468 2 481 1 494 1 507
## ## ## ## ## ## ## ## ## ## ## ##	1 378 1 391 1 404 1 417 1 430 1 443 1 456 1 469 2 482 1 495	366 1 379 1 392 1 405 1 418 1 431 1 457 1 470 1 483 1 496 1	367 1 380 2 393 1 406 1 419 2 432 1 445 1 458 1 471 1 484 1 497 1	368 1 381 1 394 1 407 1 420 1 433 1 446 1 459 1 472 1 485 1 498 1	369 1 382 2 395 1 408 1 421 1 434 1 447 1 460 1 473 1 486 1 499 1	370 1 383 1 396 1 409 1 422 1 435 1 448 1 461 1 474 1 487 1 500 1	371 1 384 1 397 2 410 1 423 1 436 1 449 1 462 1 475 1 488 1 501 1	1 372 1 385 1 398 1 411 1 424 2 437 1 450 1 463 1 476 2 489 1 502 1	373 1 386 1 399 1 412 1 425 1 438 1 451 1 464 1 477 1 490 1 503 1	374 1 387 1 400 1 413 1 426 1 439 1 452 1 465 2 478 1 491 1 504 1	375 1 388 1 401 1 414 1 427 2 440 1 453 1 466 1 479 1 492 1 505 1	1 376 1 389 1 402 1 415 1 428 1 441 1 454 1 467 1 480 1 493 1 506 1	377 1 390 1 403 1 416 1 429 1 442 1 455 2 468 2 481 1 494 1 507 1
## ## ## ## ## ## ## ## ## ## ## ##	1 378 1 391 1 404 1 417 1 430 1 443 1 456 1 469 2 482 1 495 1 508	366 1 379 1 392 1 405 1 418 1 431 1 457 1 470 1 483 1 496 1 509	367 1 380 2 393 1 406 1 419 2 432 1 445 1 471 1 484 1 497 1 510	368 1 381 1 394 1 407 1 420 1 433 1 446 1 459 1 472 1 485 1 498 1 511	369 1 382 2 395 1 408 1 421 1 434 1 447 1 460 1 473 1 486 1 499 1 512	370 1 383 1 396 1 409 1 422 1 435 1 448 1 461 1 474 1 487 1 500 1 513	371 1 384 1 397 2 410 1 423 1 436 1 449 1 462 1 475 1 488 1 501 1 514	1 372 1 385 1 398 1 411 1 424 2 437 1 450 1 463 1 476 2 489 1 502 1 515	373 1 386 1 399 1 412 1 425 1 438 1 451 1 464 1 477 1 490 1 503 1 516	374 1 387 1 400 1 413 1 426 1 439 1 452 1 465 2 478 1 491 1 504 1 517	375 1 388 1 401 1 414 1 427 2 440 1 453 1 466 1 479 1 492 1 505 1 518	1 376 1 389 1 402 1 415 1 428 1 441 1 454 1 467 1 480 1 493 1 506 1 519	377 1 390 1 403 1 416 1 429 1 442 1 455 2 468 2 481 1 494 1 507 1 520
## ## ## ## ## ## ## ## ## ## ## ## ##	1 378 1 391 1 404 1 417 1 430 1 443 1 456 1 469 2 482 1 495 1 508 1	366 1 379 1 392 1 405 1 418 1 431 1 444 1 457 1 470 1 483 1 496 1 509 1	367 1 380 2 393 1 406 1 419 2 432 1 445 1 471 1 484 1 497 1 510 2	368 1 381 1 394 1 407 1 420 1 433 1 446 1 459 1 472 1 485 1 498 1 511 1	369 1 382 2 395 1 408 1 421 1 434 1 447 1 460 1 473 1 486 1 499 1 512 1	370 1 383 1 396 1 409 1 422 1 435 1 448 1 461 1 474 1 487 1 500 1 513 1	371 1 384 1 397 2 410 1 423 1 436 1 449 1 462 1 475 1 488 1 501 1 514 1	1 372 1 385 1 398 1 411 1 424 2 437 1 450 1 463 1 476 2 489 1 502 1 515 1	373 1 386 1 399 1 412 1 425 1 438 1 451 1 464 1 477 1 490 1 503 1 516 1	374 1 387 1 400 1 413 1 426 1 439 1 452 1 465 2 478 1 491 1 504 1 517 1	375 1 388 1 401 1 414 1 427 2 440 1 453 1 466 1 479 1 492 1 505 1 518 1	1 376 1 389 1 402 1 415 1 428 1 441 1 454 1 467 1 480 1 493 1 506 1 519 1	377 1 390 1 403 1 416 1 429 1 442 1 455 2 468 2 481 1 494 1 507 1 520 1
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##	1977 1	1978 1	1979 2	1980 1	1981 1	1982 1	1983 1	1984 1	1985 1	1986 1	1987 1	1988 1	1989 1	
##	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002	
##	1	1	1	1	1	1	1	1	1	2	1	1	1	
##	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	
##	1	1	1	2	1	1	1	1	1	1	2	1	1	
##	2016 1	2017 1	2018	2019	2020 1	2021	2022	2023	2024 1	2025 1	2026 1	2027 1	2028 1	
##	2029	2030	2031	2032	2033	2034	2035	2036	2037	2038	2039	2040	2041	
##	1	1	1	1	1	2	1	1	1	1	1	1	1	
##	2042	2043	2044	2045	2046	2047	2048	2049	2050	2051	2052	2053	2054	
##	2055	2056	2057	2059	2050	2060	2061	2062	2062	2064	2065		2067	
## ##	2055 1	2056 1	2057 1	2058 1	2059 1	2060 1	2061	2062 1	2063 1	2064 1	2065 1	2066 1	2067 1	
##	2068	2069	2070	2071	2072	2073	2074	2075	2076	2077	2078	2079	2080	
##	1	1	1	1	1	1	1	2	1	1	1	1	1	
##	2081	2082	2083	2084	2085	2086	2087	2088	2089	2090	2091	2092	2093	
## ##	1 2094	1 2095	1 2096	1 2097	1 2098	1 2099	2 2100	1 2101	1 2102	1 2103	1 2104	1 2105	2 2106	
##	2034	2093	2030	1	2030	2033	2	1	1	1	1	1	1	
##	2107	2108	2109	2110	2111	2112	2113	2114	2115	2116	2117	2118	2119	
##	1	2	1	1	2	1	1	1	1	1	2	1	1	
##	2120	2121	2122	2123	2124	2125	2126	2127	2128	2129	2130	2131	2132	
## ##	2 2133	2 2134	2 2135	1 2136	1 2137	1 2138	1 2139	2 2140	1 2141	1 2142	1 2143	1 2144	1 2145	
##	1	2	1	1	1	1	1	1	1	1	1	1	1	
##	2146	2147	2148	2149	2150	2151	2152	2153	2154	2155	2156	2157	2158	
##	1	1	1	1	1	1	1	1	1	2	1	1	1	
##	2159	2160	2161	2162	2163	2164	2165	2166	2167	2168	2169	2170	2171	
## ##	1 2172	1 2173	1 2174	1 2175	1 2176	1 2177	1 2178	2 2179	1 2180	1 2181	1 2182	1 2183	1 2184	
##	1	1	2	1	1	1	1	1	2	2	1	1	2	
##	2185	2186	2187	2188	2189	2190	2191	2192	2193	2194	2195	2196	2197	
##	1	1	1	1	1	1	1	1	1	1	1	1	1	
##	2198	2199	2200	2201	2202	2203	2204	2205	2206	2207	2208	2209	2210	
##	1	1	1	1	1	1	1	1	1	2	1	1	1	
##		2212	2213	2214	2215	2216	2217	2218	2219	2220	2221	2222	2223	
## ##	2211	2212	2213	2214 1	2215 1	2216 2	2217 1	2218 1	2219 1	2220 2	2221 1	2222 1	2223 1	
	2211													
##	2211	2	1	1	1	2	1	1	1	2	1	1	1	

##	2237	2238	2239	2240	2241	2242	2243	2244	2245	2246	2247	2248	2249	
##	2	1	1	1	1	1	1	1	1	1	1	1	1	
##	2250	2251	2252	2253	2254	2255	2256	2257	2258	2259	2260	2261	2262	
##	1	1	1	1	1	1	1	1	1	1	1	1	1	
##	2263	2264	2265	2266	2267	2268	2269	2270	2271	2272	2273	2274	2275	
##	1	1	2	1	2	2	2	1	1	1	1	1	2	
##	2276	2277	2278	2279	2280	2281	2282	2283	2284	2285	2286	2287	2288	
##	2	2	1	1	1	1	1	2	1	1	1		1	
	2289	2290	2291	2292	2293	2294	2295	2296	2297	2298	2299	2300	2301	
##														
##	1	1	1	1	1	1	2	2	1	1	1	_	1	
##	2302	2303	2304	2305	2306	2307	2308	2309	2310	2311	2312	2313	2314	
##	1	1	1	1	1	2	1	1	1	1	1	1	1	
##	2315	2316	2317	2318	2319	2320	2321	2322	2323	2324	2325	2326	2327	
##	1	1	1	1	1	1	2	1	1	2	1	1	1	
##	2328	2329	2330	2331	2332	2333	2334	2335	2336	2337	2338	2339	2340	
##	1	1	1	1	1	1	1	1	1	2	1	1	1	
##	2341	2342	2343	2344	2345	2346	2347	2348	2349	2350	2351	2352	2353	
##	1	1	1	1	1	1	1	1	1	1	1	1	1	
##	2354	2355	2356	2357	2358	2359	2360	2361	2362	2363	2364	2365	2366	
##	1	1	1	1	1	1	2	1	2	1	2		1	
													_	
##	2367	2368	2369	2370	2371	2372	2373	2374	2375	2376	2377	2378	2379	
##	2	1	1	1	1	1	1	2	1	1	2	_	2	
##	2380	2381	2382	2383	2384	2385	2386	2387	2388	2389	2390	2391	2392	
##	1	1	2	1	1	1	1	1	1	1	1	2	1	
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##	1	1	1	1	2 700	1	1	1	1	1	1		1	
				2448				2452						
##	2445	2446	2447		2449	2450	2451		2453	2454	2455	2456	2457	
##	1	1	1	1	1	1	1	1		1	1	_	2	
##	2458	2459	2460	2461	2/62		2464		2466	2/67				
		2 100	2400	2401	2462	2463	2404	2465	2400	2467	2468	2469	2470	
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		1	1	1	2	1	2	2	1	1	1	1	1	
##	2471	1 2472	1 2473	1 2474	2 2475	1 2476	2 2477	2 2478	1 2479	1 2480	1 2481	1 2482	1 2483	
## ##	2471	1 2472 2	1 2473 1	1 2474 1	2 2475 1	1 2476 1	2 2477 2	2 2478 1	1 2479 1	1 2480 2	1 2481 1	1 2482 1	1 2483 1	
## ## ##	2471 1 2484	1 2472 2 2485	1 2473 1 2486 1	1 2474 1 2487 1	2 2475 1 2488	1 2476 1 2489 1	2 2477 2 2490 1	2 2478 1 2491 1	1 2479 1 2492 1	1 2480 2 2493 2	1 2481 1 2494 1	1 2482 1 2495 1	1 2483 1 2496	
## ## ## ##	2471 1 2484 2 2497	1 2472 2 2485 1 2498	1 2473 1 2486 1 2499	1 2474 1 2487 1 2500	2 2475 1 2488 2 2501	1 2476 1 2489 1 2502	2 2477 2 2490 1 2503	2 2478 1 2491 1 2504	1 2479 1 2492 1 2505	1 2480 2 2493 2 2506	1 2481 1 2494 1 2507	1 2482 1 2495 1 2508	1 2483 1 2496 1 2509	
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## ## ## ## ## ##	2471 1 2484 2 2497 1 2510	1 2472 2 2485 1 2498 2 2511	1 2473 1 2486 1 2499 1 2512	1 2474 1 2487 1 2500 1 2513	2 2475 1 2488 2 2501 1 2514	1 2476 1 2489 1 2502 1 2515	2 2477 2 2490 1 2503 1 2516	2 2478 1 2491 1 2504 1 2517	1 2479 1 2492 1 2505 1 2518	1 2480 2 2493 2 2506 2 2519	1 2481 1 2494 1 2507 1 2520	1 2482 1 2495 1 2508 1 2521	1 2483 1 2496 1 2509 1 2522	
## ## ## ## ## ##	2471 1 2484 2 2497 1 2510 1	1 2472 2 2485 1 2498 2 2511	1 2473 1 2486 1 2499 1 2512	1 2474 1 2487 1 2500 1 2513 2	2 2475 1 2488 2 2501 1 2514	1 2476 1 2489 1 2502 1 2515	2 2477 2 2490 1 2503 1 2516	2 2478 1 2491 1 2504 1 2517	1 2479 1 2492 1 2505 1 2518	1 2480 2 2493 2 2506 2 2519	1 2481 1 2494 1 2507 1 2520 2	1 2482 1 2495 1 2508 1 2521	1 2483 1 2496 1 2509 1 2522	
## ## ## ## ## ##	2471 1 2484 2 2497 1 2510 1 2523	1 2472 2 2485 1 2498 2 2511 1 2524	1 2473 1 2486 1 2499 1 2512 1 2525	1 2474 1 2487 1 2500 1 2513 2 2526	2 2475 1 2488 2 2501 1 2514 1 2527	1 2476 1 2489 1 2502 1 2515 1 2528	2 2477 2 2490 1 2503 1 2516 1 2529	2 2478 1 2491 1 2504 1 2517 1 2530	1 2479 1 2492 1 2505 1 2518 1 2531	1 2480 2 2493 2 2506 2 2519 1 2532	1 2481 1 2494 1 2507 1 2520 2 2533	1 2482 1 2495 1 2508 1 2521 1 2534	1 2483 1 2496 1 2509 1 2522 1 2535	
## ## ## ## ## ## ##	2471 1 2484 2 2497 1 2510 1 2523	1 2472 2 2485 1 2498 2 2511 1 2524	1 2473 1 2486 1 2499 1 2512 1 2525 1	1 2474 1 2487 1 2500 1 2513 2 2526	2 2475 1 2488 2 2501 1 2514 1 2527	1 2476 1 2489 1 2502 1 2515 1 2528	2 2477 2 2490 1 2503 1 2516 1 2529	2 2478 1 2491 1 2504 1 2517 1 2530	1 2479 1 2492 1 2505 1 2518 1 2531	1 2480 2 2493 2 2506 2 2519 1 2532	1 2481 1 2494 1 2507 1 2520 2 2533 1	1 2482 1 2495 1 2508 1 2521 1 2534	1 2483 1 2496 1 2509 1 2522 1 2535	
## ## ## ## ## ##	2471 1 2484 2 2497 1 2510 1 2523	1 2472 2 2485 1 2498 2 2511 1 2524	1 2473 1 2486 1 2499 1 2512 1 2525	1 2474 1 2487 1 2500 1 2513 2 2526	2 2475 1 2488 2 2501 1 2514 1 2527	1 2476 1 2489 1 2502 1 2515 1 2528	2 2477 2 2490 1 2503 1 2516 1 2529	2 2478 1 2491 1 2504 1 2517 1 2530	1 2479 1 2492 1 2505 1 2518 1 2531	1 2480 2 2493 2 2506 2 2519 1 2532	1 2481 1 2494 1 2507 1 2520 2 2533	1 2482 1 2495 1 2508 1 2521 1 2534	1 2483 1 2496 1 2509 1 2522 1 2535	
## ## ## ## ## ## ##	2471 1 2484 2 2497 1 2510 1 2523	1 2472 2 2485 1 2498 2 2511 1 2524	1 2473 1 2486 1 2499 1 2512 1 2525 1	1 2474 1 2487 1 2500 1 2513 2 2526	2 2475 1 2488 2 2501 1 2514 1 2527	1 2476 1 2489 1 2502 1 2515 1 2528	2 2477 2 2490 1 2503 1 2516 1 2529	2 2478 1 2491 1 2504 1 2517 1 2530	1 2479 1 2492 1 2505 1 2518 1 2531	1 2480 2 2493 2 2506 2 2519 1 2532	1 2481 1 2494 1 2507 1 2520 2 2533 1	1 2482 1 2495 1 2508 1 2521 1 2534	1 2483 1 2496 1 2509 1 2522 1 2535	
## ## ## ## ## ## ##	2471 1 2484 2 2497 1 2510 1 2523 1 2536	1 2472 2 2485 1 2498 2 2511 1 2524 1 2537	1 2473 1 2486 1 2499 1 2512 1 2525 1 2538	1 2474 1 2487 1 2500 1 2513 2 2526 1 2539	2 2475 1 2488 2 2501 1 2514 1 2527 1 2540	1 2476 1 2489 1 2502 1 2515 1 2528 1 2541	2 2477 2 2490 1 2503 1 2516 1 2529 1 2542	2 2478 1 2491 1 2504 1 2517 1 2530 1 2543	1 2479 1 2492 1 2505 1 2518 1 2531 1 2544	1 2480 2 2493 2 2506 2 2519 1 2532 1 2545	1 2481 1 2494 1 2507 1 2520 2 2533 1 2546	1 2482 1 2495 1 2508 1 2521 1 2534 1 2547	1 2483 1 2496 1 2509 1 2522 1 2535 1 2548	
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## ## ## ## ## ## ## ##	2471 1 2484 2 2497 1 2510 1 2523 1 2536 1 2549	1 2472 2 2485 1 2498 2 2511 1 2524 1 2537 2	1 2473 1 2486 1 2499 1 2512 1 2525 1 2538 1 2551	1 2474 1 2487 1 2500 1 2513 2 2526 1 2539 1 2552	2 2475 1 2488 2 2501 1 2514 1 2527 1 2540 2 2553	1 2476 1 2489 1 2502 1 2515 1 2528 1 2541 1 2554	2 2477 2 2490 1 2503 1 2516 1 2529 1 2542 1 2555	2 2478 1 2491 1 2504 1 2517 1 2530 1 2543 1 2556	1 2479 1 2492 1 2505 1 2518 1 2531 1 2544 1 2557	1 2480 2 2493 2 2506 2 2519 1 2532 1 2545 1 2558	1 2481 1 2494 1 2507 1 2520 2 2533 1 2546 1 2559	1 2482 1 2495 1 2508 1 2521 1 2534 1 2547 1 2560	1 2483 1 2496 1 2509 1 2522 1 2535 1 2548 1 2561	
## ## ## ## ## ## ## ##	2471 1 2484 2 2497 1 2510 1 2523 1 2536 1 2549 1	1 2472 2 2485 1 2498 2 2511 1 2524 1 2537 2 2550 1	1 2473 1 2486 1 2499 1 2512 1 2525 1 2538 1 2551	1 2474 1 2487 1 2500 1 2513 2 2526 1 2539 1 2552 1	2 2475 1 2488 2 2501 1 2514 1 2527 1 2540 2 2553 1	1 2476 1 2489 1 2502 1 2515 1 2528 1 2541 1 2554	2 2477 2 2490 1 2503 1 2516 1 2529 1 2542 1 2555 1	2 2478 1 2491 1 2504 1 2517 1 2530 1 2543 1 2556	1 2479 1 2492 1 2505 1 2518 1 2531 1 2544 1 2557	1 2480 2 2493 2 2506 2 2519 1 2532 1 2545 1 2558	1 2481 1 2494 1 2507 1 2520 2 2533 1 2546 1 2559 2	1 2482 1 2495 1 2508 1 2521 1 2534 1 2547 1 2560	1 2483 1 2496 1 2509 1 2522 1 2535 1 2548 1 2561	
## ## ## ## ## ## ## ## ##	2471 1 2484 2 2497 1 2510 1 2523 1 2536 1 2549 1 2562 1	1 2472 2 2485 1 2498 2 2511 1 2524 1 2537 2 2550 1 2563 2	1 2473 1 2486 1 2499 1 2512 1 2525 1 2538 1 2551 1 2564	1 2474 1 2487 1 2500 1 2513 2 2526 1 2539 1 2552 1 2565 1	2 2475 1 2488 2 2501 1 2514 1 2527 1 2540 2 2553 1 2566	1 2476 1 2489 1 2502 1 2515 1 2528 1 2541 1 2554 1 2567	2 2477 2 2490 1 2503 1 2516 1 2529 1 2542 1 2555 1 2568	2 2478 1 2491 1 2504 1 2517 1 2530 1 2543 1 2556 1 2569	1 2479 1 2492 1 2505 1 2518 1 2531 1 2544 1 2557 1 2570	1 2480 2 2493 2 2506 2 2519 1 2532 1 2545 1 2558 1 2571	1 2481 1 2494 1 2507 1 2520 2 2533 1 2546 1 2559 2 2572	1 2482 1 2495 1 2508 1 2521 1 2534 1 2547 1 2560 1 2573	1 2483 1 2496 1 2509 1 2522 1 2535 1 2548 1 2561 1 2574	
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## ## ## ## ## ## ## ## ## ##	2471 1 2484 2 2497 1 2510 1 2523 1 2536 1 2549 1 2562 1 2575	1 2472 2 2485 1 2498 2 2511 1 2524 1 2537 2 2550 1 2563 2 2576	1 2473 1 2486 1 2499 1 2512 1 2525 1 2538 1 2551 1 2564 1 2577	1 2474 1 2487 1 2500 1 2513 2 2526 1 2539 1 2552 1 2565 1 2578	2 2475 1 2488 2 2501 1 2514 1 2527 1 2540 2 2553 1 2566 1 2579	1 2476 1 2489 1 2502 1 2515 1 2528 1 2541 1 2554 1 2567 1 2580 1	2 2477 2 2490 1 2503 1 2516 1 2529 1 2542 1 2555 1 2568 1 2581	2 2478 1 2491 1 2504 1 2517 1 2530 1 2543 1 2556 1 2569 1 2582	1 2479 1 2492 1 2505 1 2518 1 2531 1 2544 1 2557 1 2570 1 2583 1	1 2480 2 2493 2 2506 2 2519 1 2532 1 2545 1 2575 1 2571 2571 2584 2	1 2481 1 2494 1 2507 1 2520 2 2533 1 2546 1 2559 2 2572 1 2585	1 2482 1 2495 1 2508 1 2521 1 2534 1 2547 1 2560 1 2573 1 2586	1 2483 1 2496 1 2509 1 2522 1 2535 1 2548 1 2561 1 2574 1 2587	
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## ## ## ## ## ## ## ## ## ## ## ## ##	2471 1 2484 2 2497 1 2510 1 2523 1 2536 1 2549 1 2562 1 2575 1 2588 1 2601 1 2614 1 2627 1 2640	1 2472 2 2485 1 2498 2 2511 1 2524 1 2537 2 2550 1 2563 2 2576 1 2589 1 2602 1 2615 1 2628 2 2641 1	1 2473 1 2486 1 2499 1 2512 1 2525 1 2538 1 2551 1 2564 1 2577 1 2590 1 2603 1 2616 1 2629 2 2642 1	1 2474 1 2487 1 2500 1 2513 2 2526 1 2539 1 2552 1 2565 1 2578 1 2591 1 2604 1 2617 1 2630 1 2643 1	2 2475 1 2488 2 2501 1 2514 1 2527 1 2540 2 2553 1 2566 1 2579 1 2605 1 2618 1 2631 2631 2644 1	1 2476 1 2489 1 2502 1 2515 1 2528 1 2554 1 2567 1 2580 1 2606 1 2619 2 2632 1 2645 2	2 2477 2 2490 1 2503 1 2516 1 2529 1 2542 1 2555 1 2568 1 2581 2 2594 1 2607 1 2620 1 2633 1 2646 1	2 2478 1 2491 1 2504 1 2517 1 2530 1 2543 1 2556 1 2569 1 2582 1 2698 1 2621 1 2634 1 2634 1 2647 2	1 2479 1 2492 1 2505 1 2518 1 2531 1 2544 1 2557 1 2570 1 2583 1 2596 1 2609 1 2622 2 2635 1 2648 1	1 2480 2 2493 2 2506 2 2519 1 2532 1 2545 1 2571 2584 2 2597 2 2610 1 2623 2 2636 1 2649 1	1 2481 1 2494 1 2507 1 2520 2 2533 1 2546 1 2559 2 2572 1 2585 1 2598 1 2611 1 2624 2 2637 1 2624 2 2637	1 2482 1 2495 1 2508 1 2521 1 2534 1 2547 1 2560 1 2573 1 2586 1 2599 1 2612 1 2625 1 2638 1 2638 1 2638 1	1 2483 1 2496 1 2509 1 2522 1 2535 1 2548 1 2561 1 2574 1 2587 1 2600 2 2613 1 2626 2 2639 1 2652 1	
## ## ## ## ## ## ## ## ## ## ## ## ##	2471 1 2484 2 2497 1 2510 1 2523 1 2536 1 2549 1 2562 1 2575 1 2588 1 2601 1 2614 1 2627 1 2640 1 2653	1 2472 2 2485 1 2498 2 2511 1 2524 1 2537 2 2550 1 2563 2 2576 1 2589 1 2602 1 2615 1 2628 2 2641 1 2624	1 2473	1 2474 1 2487 1 2500 1 2513 2 2526 1 2539 1 2552 1 2565 1 2578 1 2591 1 2604 1 2617 1 2630 1 2630	2 2475 1 2488 2 2501 1 2514 1 2527 1 2540 2 2553 1 2566 1 2579 1 2605 1 2618 1 2631 2631 2644 1 2657	1 2476 1 2489 1 2502 1 2515 1 2528 1 2567 1 2580 1 2593 1 2606 1 2619 2 2632 1 2645 2 2658	2 2477 2 2490 1 2503 1 2516 1 2529 1 2542 1 2555 1 2568 1 2581 2 2 2594 1 2607 1 2620 1 2633 1 2646 1 2659	2 2478 1 2491 1 2504 1 2517 1 2530 1 2543 1 2556 1 2569 1 2582 1 2595 1 2608 1 2621 1 2634 1 2647 2 2660	1 2479 1 2492 1 2505 1 2518 1 2531 1 2544 1 2557 1 2570 1 2583 1 2596 1 2609 1 2622 2 2635 1 2648 1 2661	1 2480 2 2493 2 2506 2 2519 1 2532 1 2545 1 2558 1 2571 2584 2 2597 2 2610 1 2623 2 2636 1 2649 1 2662	1 2481 1 2494 1 2507 1 2520 2 2533 1 2546 1 2559 2 2572 1 2585 1 2598 1 2611 1 2624 2 2637 1 2637 1 2650 2 2637	1 2482 1 2495 1 2508 1 2521 1 2534 1 2547 1 2560 1 2573 1 2586 1 2599 1 2612 1 2625 1 2638 1 2638 1 2631 1 2631 1 2631	1 2483 1 2496 1 2509 1 2522 1 2535 1 2548 1 2561 1 2574 1 2587 1 2600 2 2613 1 2626 2 2639 1 2652 1 2665	

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## ##	3303	3304	2	3300	3307	3300	3309	3310	3311	3312	3313	3314	3313
##	3316	3317	3318	3319	3320	3321	3322	3323	3324	3325	3326	3327	3328
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##	3329	3330	3331	3332	3333	3334	3335	3336	3337	3338	3339	3340	3341
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##	3342	3343	3344	3345	3346	3347	3348	3349	3350	3351	3352	3353	3354
## ##	1 3355	1 3356	1 3357	1 3358	1 3359	1 3360	1 3361	1 3362	1 3363	1 3364	1 3365	2 3366	1 3367
##	1	1	1	1	1	3300	1	1	1	1	1		1
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##	1	2	1	1	1	1	1	1	2	1	1	1	1
##	3381	3382	3383	3384	3385	3386	3387	3388	3389	3390	3391	3392	3393
##	1	1	1	1	1	1	1	1		1	1		1
##	3394	3395 1	3396	3397	3398	3399	3400	3401	3402	3403	3404	3405	3406
## ##	1 3407	3408	1 3409	1 3410	1 3411	1 3412	2 3413	1 3414	1 3415	2 3416	1 3417	1 3418	1 3419
##	1	1	1	1	2	1	1	1		1	1		1
##	3420	3421	3422	3423	3424	3425	3426	3427	3428	3429	3430	3431	3432
##	1	1	1	2	1	1	1	1	2	1	1	1	1
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## ##	1 3459	3460	3461	3462	3463	3464	3465	3466	3467	3468	3469	3470	3471
##	1	2	1	1	1	1	1	1		1	1		1
##	3472	3473	3474	3475	3476	3477	3478	3479	3480	3481	3482	3483	3484
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##	1	1	2		1	1	_	1		1	1	2	
## ##	3498 1	3499 1	3500 1	3501 1	3502 1	3503 1	3504 2	3505 1	3506 1	3507 2	3508 1	3509 1	3510 1
##				251 <i>/</i>									

ππ	JULL	JJIL	JULU	JJIH	JULU	2210	JJII	JJIU	OOTS	JJZU	JJZI	JJZZ	JJZJ
##	1	1	1	1	1		1	1	1	1	1	1	1
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##		1		1		2		1			1		1
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##		1		1		1			1				
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##		1		2		1			1			1	
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##		1		1		1			1 3649				
##		3642 1	3643	3044	3645	3646 1	3647		3649	3650	3651	3652 1	3653
##		3655	3656	3657		3659	3660		3662	3663		3665	3666
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##		3707	3708 1	3709	3710	3711			3714	3715	3716		3718
##		1 3720	3721	2 3722		1 3724	3725		1 3727			2 3730	3731
##		1		1		1			1			1	
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##	1	1	1	1	1	1	1	1	1	2	1	1	1
##	3862	3863	3864	3865	3866	3867	3868	3869	3870	3871	3872	3873	3874
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##	1 3927	1 3928	1 3929	2 3930	2 3931	1 3932	1 3933	1 3934	1 3935	1 3936	1 3937	2 3938	1 3939
##	3927	3920	3929	1	3931	3932	3933		3935		3937	3930	3939
11 11	_	_	_	_	_	_	_	_	_	_	_	_	

##	3940	3941	3942	3943	3944	3945	3946	3947	3948	3949	3950	3951	3952
##	2052	2054	2055	2056			2050		2061		2062	2064	
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##		3993	3994	3995 1	3996 1	3997 1	3990	3999 1	4000 1	4001 1	4002 1	4003	
##	4005	4006	4007	4008	4009	4010	4011	4012	4013	4014	4015	4016	4017
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##	1 4070	1 4071	1 4072	1 4073	2 4074	1 4075	1 4076	1 4077	1 4078	1 4079	1 4080	1 4081	2 4082
##	1	1	1	1		2	1	1		1	1	4001	
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##	1 4109	1 4110	1 4111	2 4112	1 4113	1 4114	2 4115	1 4116	1 4117	1 4118	1 4119	1 4120	2 4121
##	1	2	1	1			1	1		1		1	
##	4122	4123	4124	4125	4126	4127	4128	4129	4130	4131	4132	4133	4134
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##		1	1	1			1			1		4159	
##	4161	4162	4163	4164		4166	4167			4170		4172	4173
##	1	1	1			1			1			1	
##			4176										
##		1 4188		1 4190			1 4193		4195			2 4198	
##		1		1			1		1			1	
##	4200	4201	4202	4203	4204	4205	4206	4207	4208	4209	4210	4211	4212
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##	4213	4214 1	4215 1	4216 1	4217	4218	4219 1		4221 2	4222 1		4224 2	
##	4226	4227	4228		4230	4231	4232		4234	4235		4237	
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	-	_	-	-	-	-	-	-	-	-	-	-	_

##	1	1	1	1	1	1	1	1	1	1	1	1	1
##	4369	4370	4371	4372	4373	4374	4375	4376	4377	4378	4379	4380	4381
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##	4551	4552	4553	4554	4555	4556	4557	4558	4559	4560	4561	4562	4563
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##	1	1	1		1	1		1	1		1		1
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##	4694	1 4695	1 4696	1 4697	1 4698		1 4700	1 4701	1 4702	1 4703	1 4704		4706
## ##				4697				4701	4702	4703		4705	
	4694	4695	4696	4697	4698	4699 1	4700	4701	4702	4703	4704	4705 1	4706
##	4694 1	4695 1	4696 1	4697 1 4710	4698 1	4699 1	4700 1	4701 1 4714	4702 1 4715	4703 1 4716	4704 1	4705 1 4718	4706 1
## ## ##	4694 1 4707 1 4720	4695 1 4708 2 4721	4696 1 4709 1 4722	4697 1 4710 1 4723	4698 1 4711 1 4724	4699 1 4712 1 4725	4700 1 4713 1 4726	4701 1 4714 1 4727	4702 1 4715 1 4728	4703 1 4716 1 4729	4704 1 4717 1 4730	4705 1 4718 1 4731	4706 1 4719 1 4732
## ## ## ##	4694 1 4707 1 4720 1	4695 1 4708 2 4721 1	4696 1 4709 1 4722 2	4697 1 4710 1 4723 1	4698 1 4711 1 4724 1	4699 1 4712 1 4725 1	4700 1 4713 1 4726 1	4701 1 4714 1 4727 1	4702 1 4715 1 4728 1	4703 1 4716 1 4729 1	4704 1 4717 1 4730 1	4705 1 4718 1 4731 1	4706 1 4719 1 4732
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##		1	1	1			2		1			1	
## ##	6423 1	6424 1	6425 2	6426 1	6427 1	6428 1	6429 1	6430 1	6431 1	6432 1	6433 1		6435 1
##	6436	6437	6438	6439	6440	6441	6442		6444	6445	6446		6448
##		1	1	1			1		1				1
##	6449	6450	6451	6452	6453	6454	6455	6456	6457	6458	6459	6460	6461
## ##	1 6462	1 6463	1 6464	1 6465	1 6466	1 6467	1 6468		1 6470	1 6471	1 6472	1 6473	1 6474
##		1	1	1			1		1			1	
##		6476	6477	6478	6479	6480	6481		6483	6484	6485		6487
##	1	1	1	1	1	1	1	1	1	1	1	2	1

##	6488	6489	6490	6491	6492	6493	6494	6495	6496	6497	6498	6499	6500
##	1	1	1	1	1	1	1	1	1	1	1	1	1
##	6501	6502	6503	6504	6505	6506	6507	6508	6509	6510	6511	6512	6513
##	1	1	1	1 6517	1 6518	1 6510	1	1	6522	6522	6524	1	1
## ##	6514 1	6515 1	6516 1	6517 1	1	6519 1	6520 2	6521 1	6522 1	6523 1	6524 1	6525 1	6526 1
##	6527	6528	6529	6530	6531	6532	6533	6534	6535	6536	6537	6538	6539
##	1	0526	0529	1	1	1	1	1	1	1	1	1	2
##	6540	6541	6542	6543	6544	6545	6546	6547	6548	6549	6550	6551	6552
##	1	1	1	1	1	1	1	1	1	1	1	1	2
##	6553	6554	6555	6556	6557	6558	6559	6560	6561	6562	6563	6564	6565
##	1	1	1	1	1	1	1	1	1	1	1	2	1
##	6566	6567	6568	6569	6570	6571	6572	6573	6574	6575	6576	6577	6578
##	1	1	1	1	1	1	1	1	1	1	1	1	2
##	6579	6580	6581	6582	6583	6584	6585	6586	6587	6588	6589	6590	6591
##	1	1	1	1	1	1	1	1	1	1	1	1	1
##	6592	6593	6594	6595	6596	6597	6598	6599	6600	6601	6602	6603	6604
##	1	1	1	1	1	1	1	2	1	1	1	1	1
##	6605	6606	6607	6608	6609	6610	6611	6612	6613	6614	6615	6616	6617
##	1	1	1	1	2	1	2	1	1	1	1	1	1
##	6618	6619	6620	6621	6622	6623	6624	6625	6626	6627	6628	6629	6630
##	1	1	1	1	1	1	1	2	1	2	1	1	1
##	6631	6632	6633	6634	6635	6636	6637	6638	6639	6640	6641	6642	6643
##	1	1	1	1	1	1	1	1	1	1	1	1	1
##	6644	6645	6646	6647	6648	6649	6650	6651	6652	6653	6654	6655	6656
##	1	1	1	1	1	1	1	1	2	1	1	1	1
##	6657	6658	6659	6660	6661	6662	6663	6664	6665	6666	6667	6668	6669
##	1	1	1	1	1	1	1	2	1	1	2	1	1
##	6670	6671	6672	6673	6674	6675	6676	6677	6678	6679	6680	6681	6682
##	1	1	1	1	1	1	1	1	1	1	1	1	1
##	6683	6684	6685	6686	6687	6688	6689	6690	6691	6692	6693	6694	6695
##	1	1	1	1	1	1	1	1	1	1	2	1	1
##	6696	6697	6698	6699	6700	6701	6702	6703	6704	6705	6706	6707	6708
##	1	1	1	1	1	1	1	1	2	1	1	1	1
##	6709	6710	6711	6712	6713	6714	6715	6716	6717	6718	6719	6720	6721
##	1	2	1	1	1	1	1	1	1	1	2	1	1
##	6722	6723	6724	6725	6726	6727	6728	6729	6730	6731	6732	6733	
##	2	1	1	1	1	1	1	1	1	1	1	1	1
##	6735	6736	6737	6738	6739	6740	6741	6742	6743	6744	6745	6746	6747
##	1	2	1	1	2	1	1	1	1	1	1	1	1
##	6748	6749	6750	6751	6752	6753	6754	6755	6756	6757	6758	6759	6760
##	1	1	1	1	1	1	1	1	1	1	1	1	1
##	6761	6762	6763	6764	6765	6766	6767	6768	6769	6770	6771	6772	6773
## ##	1 6774	1 6775	1 6776	1 6777	2 6778	1 6779	1 6780	1 6781	1 6782	1 6783	1 6784	1 6785	1 6786
##	1	1	1	1	1	1	1	1	1	1	1	1	1
##	6787	6788	6789	6790	6791	6792	6793	6794	6795	6796	6797	6798	6799
##	1	1	1	1	1	1	1	1	1	1	1	1	1
##	6800	6801	6802	6803	6804	6805	6806	6807	6808	6809	6810	6811	6812
##	1	1	1	1	1	1	1	1	1	1	1	1	1
##	6813	6814	6815	6816	6817	6818	6819	6820	6821	6822	6823	6824	6825
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##	6826	6827	6828	6829	6830	6831	6832	6833	6834	6835	6836	6837	6838
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##	6839	6840	6841	6842	6843	6844	6845	6846	6847	6848	6849	6850	6851
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##	6852	6853	6854	6855	6856	6857	6858	6859	6860	6861	6862	6863	6864
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##	6865	6866	6867	6868	6869	6870	6871	6872	6873	6874	6875	6876	6877
##	1	1	1	1	1	1	1	1	1	1	1	1	1
##	6878	6879	6880	6881	6882	6883	6884	6885	6886	6887	6888	6889	6890
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##	6891	6892	6893	6894	6895	6896	6897	6898	6899	6900	6901	6902	6903
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##	1	1	1	1	1	1	1	1	1	2	1	1	1

##	6917	6918	6919	6920	6921	6922	6923	6924	6925	6926	6927	6928	6929
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##	6930 1	6931 1	6932 1	6933 1	6934 1	6935 1	6936 1	6937 1	6938 1	6939 1	6940 1	6941 1	6942 1
##	6943	6944	6945	6946	6947	6948	6949	6950	6951	6952	6953	6954	6955
##	1	1	1	1	1	1	1	1	2	1	1	1	1
##	6956	6957	6958	6959	6960	6961	6962	6963	6964	6965	6966	6967	6968
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##	6969 1	6970 1	6971 1	6972 1	6973 1	6974 1	6975 1	6976 1	6977 1	6978 1	6979 2	6980 1	6981 1
##	6982	6983	6984	6985	6986	6987	6988	6989	6990	6991	6992	6993	6994
##	1	1	1	1	1	1	1	1	1	1	1	1	1
##	6995	6996	6997	6998	6999	7000	7001	7002	7003	7004	7005	7006	7007
##	1	1	1	1	1	1	1	1	1	1	1	1	1
##	7008 1	7009 1	7010 1	7011 1	7012 1	7013 1	7014 1	7015 1	7016 1	7017 1	7018 2	7019 1	7020 1
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##	1	1	1	1	1	1	1	1	1	1	1	1	1
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##	1 7060	7061	7062	7063	7064	7065	7066	1 7067	7068	7069	7070	7071	7072
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##	7073	7074	7075	7076	7077	7078	7079	7080	7081	7082	7083	7084	7085
##	1	1	1	1	1	1	1	1	1	1	1	1	1
##	7086	7087	7088	7089	7090	7091	7092	7093	7094	7095	7096	7097	7098
##	1 7099	1 7100	1 7101	1 7102	1 7103	1 7104	2 7105	1 7106	1 7107	1 7108	1 7109	1 7110	1 7111
##	1	1	1	1	1	1	1	1	1	1	1	1	1
##	7112	7113	7114	7115	7116	7117	7118	7119	7120	7121	7122	7123	7124
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##	1	1	1	1	1	1	1	1	1	1	1	1	1
##	7151	7152	7153	7154	7155	7156	7157	7158	7159	7160	7161	7162	7163
##	1	1	1	1	1	1	1	1	1	1	1	1	1
##	7164	7165	7166	7167	7168	7169	7170	7171	7172	7173	7174	7175	7176
##	1 7177	1 7178	1 7179	1 7180	1 7181	1 7182	1 7183	1 7184	2 7185	2 7186	1 7187	1 7188	1 7189
##	1	1	1	1	1	2	2	1	1	1	1	1	1
##	7190	7191	7192	7193	7194	7195	7196	7197	7198	7199	7200	7201	7202
##	1	1	2	1	1	2	1	1	1	1	1	1	1
##	7203	7204	7205	7206	7207	7208	7209	7210	7211	7212	7213	7214	7215
##	1 7216	1 7217	1 7218	1 7219	1 7220	1 7221	1 7222	1 7223	1 7224	1 7225	1 7226	1 7227	1 7228
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##	7229	7230	7231	7232	7233	7234	7235	7236	7237	7238	7239	7240	7241
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##	7242	7243	7244	7245	7246	7247	7248	7249	7250	7251	7252	7253	7254
##	1 7255	1 7256	1 7257	1 7258	1 7259	1 7260	1 7261	1 7262	1 7263	2 7264	1 7265	1 7266	1 7267
##	1	1	1	1	1	1		1	1	1	1		2
##	7268	7269	7270	7271	7272	7273	7274	7275	7276	7277	7278	7279	7280
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##	7281	7282	7283	7284	7285	7286	7287	7288	7289	7290	7291	7292	7293
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##	1294	1295	1290	1291	1290	1299		1301	1302	1303	1304	1305	1300
##	7307	7308	7309	7310	7311	7312	7313	7314	7315	7316	7317	7318	7319
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##	7320	7321	7322	7323	7324	7325	7326	7327	7328	7329	7330	7331	7332
##	1 7333	1 7334	1 7335		1 7337	1 7338		1 7340	1 7341	1 7342	1 7343	1 7344	1 7345
ππ	, 555	, 554	, 555	, 550	1001	, 550	, 555	, 540	, 041	1042	, 0+0	, 544	, 5-5

##	1	1	1	2	7050	1	1	1	1	2	1	1	7050
##	7346 1	7347 1	7348 1	7349 1	7350 1	7351 2	7352 1	7353 1	7354 1	7355 1	7356 1	7357 1	7358 1
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## ##	1 7463	1 7464	1 7465	1 7466	1 7467	1 7468	1 7469	1 7470	1 7471	1 7472	1 7473	2 7474	1 7475
##	1403	1404	1403	1400	1407	1400	1409	1470	1471	1472	1473	2	1473
##	7476	7477	7478	7479	7480	7481	7482	7483	7484	7485	7486	7487	7488
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##	7502	7503	7504	7505	7506	7507	7508	7509	7510	7511	7512	7513	7514
##	7515	7516	1 7517	7510	7510	2	2	2	7522	7524	7525	7526	7527
## ##	7515 1	7516 1	1517	7518 1	7519 1	7520 1	7521 1	7522 1	7523 1	7524 1	7525 1	7526 1	7527 1
##	7528	7529	7530	7531	7532	7533	7534	7535	7536	7537	7538	7539	7540
##	1	1	1	1	1	1	1	1	1	1	1	1	1
##	7541	7542	7543	7544	7545	7546	7547	7548	7549	7550	7551	7552	7553
##	1	1	1	1	1	1	1	2	1	1	1	1	1
##	7554	7555	7556	7557	7558	7559	7560	7561	7562	7563	7564	7565	7566
##	7567	7560	7560	7570	7571	7572	7572	7574	7575	1 7576	1	7570	7570
## ##	7567 1	7568 1	7569 1	7570 1	7571 1	7572 1	7573 2	7574 1	7575 1	1576	7577 1	7578 1	7579 1
##	7580	7581	7582	7583	7584	7585	7586	7587	7588	7589	7590	7591	7592
##	1	1	1	1	1	1	1	1	1	1	1	2	1
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##	1	1	1	1	1	1	1	1	1	1	1	1	1
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##	7610	7620	7621	7622	2	7624	7625	7626	7627	7620	7620	7620	7621
## ##	7619 1	7620 1	7621 1	7622 2	7623 1	7624 1	7625 1	7626 1	7627 1	7628 1	7629 1	7630 1	7631 1
##	7632	7633	7634	7635	7636	7637	7638	7639	7640	7641	7642	7643	7644
##	1	1	1	1	1	1	1	2	1	1	1	1	1
##	7645	7646	7647	7648	7649	7650	7651	7652	7653	7654	7655	7656	7657
##	1	1	1	1	1	1	2	1	1	1	1	1	1
##	7658	7659	7660	7661	7662	7663	7664	7665	7666	7667	7668	7669	7670
##	7671	7672	7672	1 7674	7675	7676	7677	7670	7670	7690	7601	7692	7602
## ##	7671 1	7672 1	7673 1	7674 1	7675 1	7676 1	7677 2	7678 1	7679 1	7680 1	7681 1	7682 1	7683 1
##	7684	7685	7686	7687	7688	7689	7690	7691	7692	7693	7694	7695	7696
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##	7700	7704	7725	1	7707	7720	1	7720	1	7722	7722	7724	2
## ##	7723 1	7724 1	7725 1	7726 1	7727 1	7728 1	7729 2	7730 1	7731 1	7732 2	7733 2	7734 1	7735 1
##	7736	7737	7738	7739	7740	7741	7742	7743	7744	7745	7746	7747	7748
##	1	1	1	1	1	1	1	2	1	1	1	1	1
## ##		1 7750	1 7751	1 7752	1 7753	1 7754	1 7755	2 7756	1 7757	1 7758	1 7759	1 7760	1 7761
	1 7749 1	7750 1	7751 1		7753 2	7754 1	7755 1	7756 1	7757 1	7758 1	7759 1	7760 1	7761 1

##	1	1	1	1	1	1	1	2	1	2	1	1	1
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##	7801	7802	7803	7804	7805	7806	7807	7808	7809	7810	7811	7812	7813
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##	1	1	1	1	1	1	1	1	1	1	1	1	1
##	7827	7828	7829	7830	7831	7832	7833	7834	7835	7836	7837	7838	7839
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##	7840	7841	7842	7843	7844	7845	7846	7847	7848	7849	7850	7851	7852
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##	7853	7854	7855	7856	7857	7858	7859	7860	7861	7862	7863	7864	7865
##	1	1	1	1	1	1	1	1	1	1	2	1	1
##	7866	7867	7868	7869	7870	7871	7872	7873	7874	7875	7876	7877	7878
##	1	1	1	1	1	1	1	1	1	1	1	1	1
##	7879	7880	7881	7882	7883	7884	7885	7886	7887	7888	7889	7890	7891
##	1	1	1	1	1	1	1	1	1	2	1	1	1
##	7892	7893	7894	7895	7896	7897	7898	7899	7900	7901	7902	7903	7904
##	1	1	1	1	1	1	1	1	1	1	1	2	1
##	7905	7906	7907	7908	7909	7910	7911	7912	7913	7914	7915	7916	7917
##	1	1	2	1	1	1	1	1	1	1	1	1	2
##	7918	7919	7920	7921	7922	7923	7924	7925	7926	7927	7928	7929	7930
##	1	1	1	1	1	1	1	1	1	2	1	1	1
##	7931	7932	7933	7934	7935	7936	7937	7938	7939	7940	7941	7942	7943
##	1	1	1	1	1	1	1	1	1	1	1	1	1
##	7944	7945	7946	7947	7948	7949	7950	7951	7952	7953	7954	7955	7956
##	1	1	1	1	1	1	1	1	1	1	2	1	1
##	7957	7958	7959	7960	7961	7962	7963	7964	7965	7966	7967	7968	7969
##	1	2	1	1	1	1	1	1	1	1	1	1	1
##	7970	7971	7972	7973	7974	7975	7976	7977	7978	7979	7980	7981	7982
##	2	1	1	2	1	2	1	1	1	1	2	1	1
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##	1	1	1	1	1	1	1	1	1	1	1	1	1
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##	1	1	1	2	1	1	1	1	1	1	1	1	1
##	8022	8023	8024	8025	8026	8027	8028	8029	8030	8031	8032	8033	8034
##	1	1	1	1	1	1	1	1	1	1	1	1	1
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##	2061	1 8062	2062	2064	2065	2	2067	1 8068	2060	2070	2071	2072	2072
	8061		8063	8064	8065	8066	8067	2	8069	8070	8071	8072 2	8073
##	8074	1 8075	1 8076	1 8077	1 8078	1 8079	1 8080	8081	1 8082	1 8083	1 8084	8085	1 8086
##	1	1	1	1	1	1	1	1	1	1	1	1	1
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##	1	1	1	1	1	1	1	1	1	1	1	1	1
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##	8191	8192	8193	8194	8195	8196	8197	8198	8199	8200	8201	8202	8203
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##	1	1	0323	1	1	1	1	1	1	1	1	1	1
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##	1	1	1	1	1	1	1	2	1	1	1	1	1
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##	1 8438	1 8439	1 8440	1 8441	1 8442	1 8443	1 8444	1 8445	1 8446	1 8447	1 8448	1 8449	2 8450
##		1	1		2	1	1	1		2		1	1
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##	9465	9466	9467	9468	9469	9470	9471	9472	9473	9474	9475	9476	9477	
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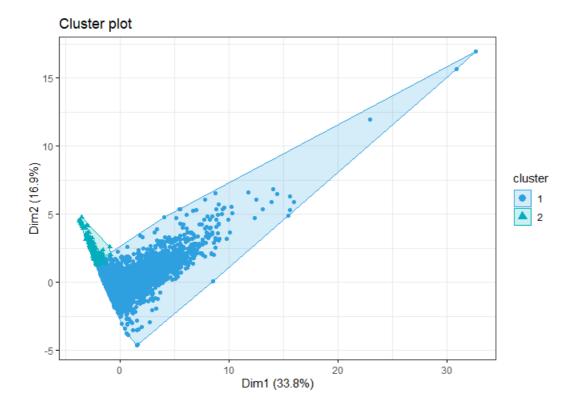
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## 11337 11338 11339 11340 11341 11342 11343 11344 11345 11346 11347 11348 11349
   ## 11350 11351 11352 11353 11354 11355 11356 11357 11358 11359 11360 11361 11362
\#\# 1 1 1 1 1 1 1 1 1 1 1 1
## 11363 11364 11365 11366 11367 11368 11369 11370 11371 11372 11373 11374 11375
  1 1 1 1 1 1 1 1 1 1 1 1 1
## 11376 11377 11378 11379 11380 11381 11382 11383 11384 11385 11386 11387 11388
  1 1 1 1 1 1 1 1 1 1 1 1
## 11389 11390 11391 11392 11393 11394 11395 11396 11397 11398 11399 11400 11401
               1 1 2 1
                               1
                                           1 1 1
       2
           1
                                   1
                                       1
## 11402 11403 11404 11405 11406 11407 11408 11409 11410 11411 11412 11413 11414
      1
           1 1
                   1 1 1 1 1 1 1 1 1
## 11415 11416 11417 11418 11419 11420 11421 11422 11423 11424 11425 11426 11427
       1
           1
               1
                   1 1 1 1 2 1 1
                                               1 1
   1
## 11428 11429 11430 11431 11432 11433 11434 11435 11436 11437 11438 11439 11440
           1 1 1 1 1 1 1 1 1 1 1
   1
       1
## 11441 11442 11443 11444 11445 11446 11447 11448 11449 11450 11451 11452 11453
  1 1 1 1 1 1 1 1 1 1 1 1
## 11454 11455 11456 11457 11458 11459 11460 11461 11462 11463 11464 11465 11466
  ## 11467 11468 11469 11470 11471 11472 11473 11474 11475 11476 11477 11478 11479
   1 1 1 1 1 1 1 1 1 1 1 1
## 11480 11481 11482 11483 11484 11485 11486 11487 11488 11489 11490 11491 11492
    1 1 1 1 1 1 1 1 1
                                           1 1 1
## 11493 11494 11495 11496 11497 11498 11499 11500 11501 11502 11503 11504 11505
       1
           1
               1
                   1 1 2 1
                                  1
                                       1
                                           2
## 11506 11507 11508 11509 11510 11511 11512 11513 11514 11515 11516 11517 11518
    1
       1
           1
               1
                   1 1 1 1
                                   1
                                       1
                                           1
                                               1
## 11519 11520 11521 11522 11523 11524 11525 11526 11527 11528 11529 11530 11531
   1
       ## 11532 11533 11534 11535 11536 11537 11538 11539 11540 11541 11542 11543 11544
   1 1 1 1 1 1 1 1 1 1 1 1 1
## 11545 11546 11547 11548 11549 11550 11551 11552 11553 11554 11555 11556 11557
  ## 11558 11559 11560 11561 11562 11563 11564 11565 11566 11567 11568 11569 11570
   1 1 1 2 1 1 1 1 1 1 1 1 1
## 11571 11572 11573 11574 11575 11576 11577 11578 11579 11580 11581 11582 11583
  ## 11584 11585 11586 11587 11588 11589 11590 11591 11592 11593 11594 11595 11596
```

```
## 1 1 2 1 1 1 1 1 1 1 1 1
## 11597 11598 11599 11600 11601 11602 11603 11604 11605 11606 11607 11608 11609
   1 1 1 1 1 1 1 1 1 1 1 1 1
## 11610 11611 11612 11613 11614 11615 11616 11617 11618 11619 11620 11621 11622
            1 1 1 1 1 1 1 1 1 1 1
        1
## 11623 11624 11625 11626 11627 11628 11629 11630 11631 11632 11633 11634 11635
    1 1 1 1 2 1 1 1 1 1 1 1 1
## 11636 11637 11638 11639 11640 11641 11642 11643 11644 11645 11646 11647 11648
  1 1 1 1 1 2 1 1 1 1 1 1 1
## 11649 11650 11651 11652 11653 11654 11655 11656 11657 11658 11659 11660 11661
    ## 11662 11663 11664 11665 11666 11667 11668 11669 11670 11671 11672 11673 11674
       ## 11675 11676 11677 11678 11679 11680 11681 11682 11683 11684 11685 11686 11687
       1
          1 1 1 1 1
                                1
                                    1
                                         1
                                             1 1
## 11688 11689 11690 11691 11692 11693 11694 11695 11696 11697 11698 11699 11700
                1
                    1
                        1
                            1
                                 1
                                     1
                                         2
    1
        1
            1
                                             1
                                                 1
## 11701 11702 11703 11704 11705 11706 11707 11708 11709 11710 11711 11712 11713
    1
        1
           1 1 1 1 1
                                1
                                    1
                                         1 2 1 1
## 11714 11715 11716 11717 11718 11719 11720 11721 11722 11723 11724 11725 11726
    1 1 1 1 1 1 1 1 1 1 1 1 1
## 11727 11728 11729 11730 11731 11732 11733 11734 11735 11736 11737 11738 11739
      1 1 1 1 1 1 1 1 1 1 2
## 11740 11741 11742 11743 11744 11745 11746 11747 11748 11749 11750 11751 11752
    1
## 11753 11754 11755 11756 11757 11758 11759 11760 11761 11762 11763 11764 11765
      1 1 1 1 1 1 1 1 1 1
## 11766 11767 11768 11769 11770 11771 11772 11773 11774 11775 11776 11777 11778
                  1 1 1
        1
            1
                1
                                1
                                    1
                                         1
                                             1
## 11779 11780 11781 11782 11783 11784 11785 11786 11787 11788 11789 11790 11791
        1
            1
                1
                    1
                        1 1
                               1
                                   1
                                         1
                                            1
                                                 1
    1
## 11792 11793 11794 11795 11796 11797 11798 11799 11800 11801 11802 11803 11804
    1
        ## 11805 11806 11807 11808 11809 11810 11811 11812 11813 11814 11815 11816 11817
    1
       ## 11818 11819 11820 11821 11822 11823 11824 11825 11826 11827 11828 11829 11830
      1 1 1 1 2 1 1 1 1 1 1
    1
## 11831 11832 11833 11834 11835 11836 11837 11838 11839 11840 11841 11842 11843
      1 1 1 1 2 1 1 1 1 1
    1
                                                2
                                                    1
## 11844 11845 11846 11847 11848 11849 11850 11851 11852 11853 11854 11855 11856
      ## 11857 11858 11859 11860 11861 11862 11863 11864 11865 11866 11867 11868 11869
                    1 2 1
                                     1
                                         2
            1
                1
                                1
                                             1
        1
## 11870 11871 11872 11873 11874 11875 11876 11877 11878 11879 11880 11881 11882
            1
                1
                    1
                        1 1
                                1
                                     1
                                         1
                                             1
## 11883 11884 11885 11886 11887 11888 11889 11890 11891 11892 11893 11894 11895
            2
                    1
                        1
                            1
    1
        1
                1
                                 1
                                     1
                                         1
                                             1
                                                 1
## 11896 11897 11898 11899 11900 11901 11902 11903 11904 11905 11906 11907 11908
        1 1 1 1
                        1
                            1
                                1
                                    1
                                         1
                                             1 1 1
## 11909 11910 11911 11912 11913 11914 11915 11916 11917 11918 11919 11920 11921
    1 1 1 1 1 1 1 1 1 1 1 1
## 11922 11923 11924 11925 11926 11927 11928 11929 11930 11931 11932 11933 11934
      1 1 1 1 1 1 2 1 1 1 1 2
## 11935 11936 11937 11938 11939 11940 11941 11942 11943 11944 11945 11946 11947
    1 2 1 1 1 1 1 1 1 1 1
## 11948 11949 11950 11951 11952 11953 11954 11955 11956 11957 11958 11959 11960
                1 1 1
                            2
                                 1
                                     1
        2
            1
                                         1
                                             1
## 11961 11962 11963 11964 11965 11966 11967 11968 11969 11970 11971 11972 11973
            2
              1
                  1 1 1
                                1
                                    1
                                         1
                                            1
        1
## 11974 11975 11976 11977 11978 11979 11980 11981 11982 11983 11984 11985 11986
                    1
                        1
                            1
                                 1
                                     1
                                         1
                                             1
                                                 1
                                                      1
    1
        1
            1
                1
## 11987 11988 11989 11990 11991 11992 11993 11994 11995 11996 11997 11998 11999
            2
                    1
                        1 1
                                1 1
                                        1 1 1
                1
## 12000 12001 12002 12003 12004 12005 12006 12007 12008 12009 12010 12011 12012
       1 1 1
                  1 1 1
                                1 1 1
                                             1
                                                 1
## 12012 12014 12015 12016 12017 12018 12010 12020 12021 12022 12024 12025
```

```
## 1 1 1 1 1 1 1 1 1
                                             1 1 1
## 12026 12027 12028 12029 12030 12031 12032 12033 12034 12035 12036 12037 12038
\#\# 1 1 1 1 1 1 1 1 1 1 1 1 1
## 12039 12040 12041 12042 12043 12044 12045 12046 12047 12048 12049 12050 12051
                                 2
       1 1 1 1 1 1
                                              1
                                     2
                                          1
## 12052 12053 12054 12055 12056 12057 12058 12059 12060 12061 12062 12063 12064
  1 1 1 1 1 1 1 1 1 1 1 1
## 12065 12066 12067 12068 12069 12070 12071 12072 12073 12074 12075 12076 12077
\#\# 1 1 2 1 1 2 1 1 1 1 1 1
## 12078 12079 12080 12081 12082 12083 12084 12085 12086 12087 12088 12089 12090
## 1 1 1 1 1 1 1 1 1 1 2
## 12091 12092 12093 12094 12095 12096 12097 12098 12099 12100 12101 12102 12103
\#\# 1 1 1 1 1 1 1 1 1 1 1 1
## 12104 12105 12106 12107 12108 12109 12110 12111 12112 12113 12114 12115 12116
  1 1 1 1 1 1 1 1 1 1 1 1 1
## 12117 12118 12119 12120 12121 12122 12123 12124 12125 12126 12127 12128 12129
\#\# 1 1 1 1 1 1 1 1 1 1 1 1
## 12130 12131 12132 12133 12134 12135 12136 12137 12138 12139 12140 12141 12142
       1 1 1 1 1 1 1 1
                                         1 1
## 12143 12144 12145 12146 12147 12148 12149 12150 12151 12152 12153 12154 12155
  1 1 1 1 1 1 1 1 1 1 1 1
## 12156 12157 12158 12159 12160 12161 12162 12163 12164 12165 12166 12167 12168
   ## 12169 12170 12171 12172 12173 12174 12175 12176 12177 12178 12179 12180 12181
\#\# 1 1 2 1 1 1 1 1 1 1 1 1
## 12182 12183 12184 12185 12186 12187 12188 12189 12190 12191 12192 12193 12194
## 1 1 1 1 1
                        1 1 1 1 2 1 1 1
## 12195 12196 12197 12198 12199
## 1 1 1 1 1
# Previewing the no. of records in each cluster
model_k$size
## [1] 11267 932
t1 <- table(model_k$cluster, mod.class)</pre>
   mod.class
    FALSE TRUE
##
##
   1 9365 1902
     926 6
fviz_cluster(model_k, data = data.mod,
         palette = c("#2E9FDF", "#00AFBB", "#E7B800"),
         geom = "point",
         ellipse.type = "convex",
         ggtheme = theme_bw()
```

 $\pi\pi$ 12010 12014 12010 12010 12011 12010 12013 12020 12021 12022 12023 12024 12020



Conclusion From the K Means Clustering, using two centroids and a 100 iterations, we can see that the algorithm did a good job by classifying most True's in the revenue column as true but did not cluster the false group well. It clusters well to around 50% on both

Hierarchical Clustering

```
library(cluster)
library(dendextend)
```

```
##
## Welcome to dendextend version 1.13.4
## Type citation('dendextend') for how to cite the package.
## Type browseVignettes(package = 'dendextend') for the package vignette.
## The github page is: https://github.com/talgalili/dendextend/
##
## Suggestions and bug-reports can be submitted at: https://github.com/talgalili/dendextend/is
## Or contact: <tal.galili@gmail.com>
##
   To suppress this message use: suppressPackageStartupMessages(library(dendextend))
##
##
## Attaching package: 'dendextend'
## The following object is masked from 'package:ggpubr':
##
##
       rotate
## The following object is masked from 'package:stats':
##
##
       cutree
```

library(purrr)

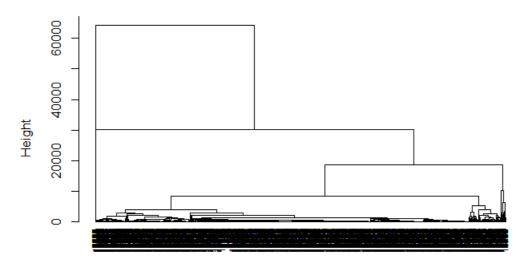
```
# Dissimilarity matrix

d <- dist(mod.new, method = "euclidean")

# Hierarchical clustering using Complete Linkage
hc1 <- hclust(d, method = "complete")

# Plot the obtained dendrogram
plot(hc1, cex = 0.6, hang = -1)</pre>
```

Cluster Dendrogram

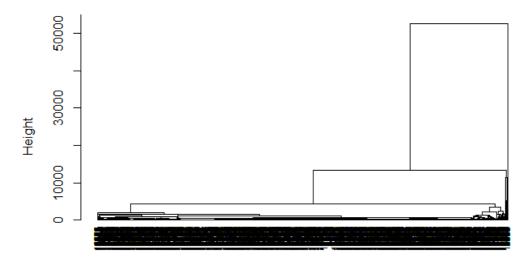


d hclust (*, "complete")

```
# Hierarchical clustering using Average Linkage
hc2 <- hclust(d, method = "average" )

# Plot the obtained dendrogram
plot(hc2, cex = 0.6, hang = -1)</pre>
```

Cluster Dendrogram

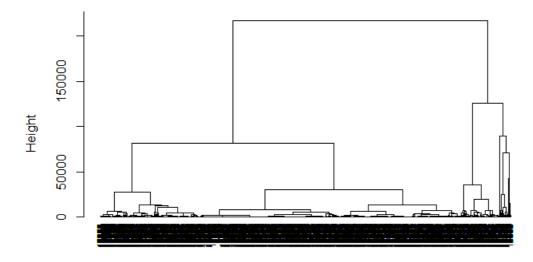


d hclust (*, "average")

```
# Hierarchical clustering using Average Linkage
hc3 <- hclust(d, method = "ward.D2" )

# Plot the obtained dendrogram
plot(hc3, cex = 0.6, hang = -1)</pre>
```

Cluster Dendrogram



d hclust (*, "ward.D2")

Conclusion

It would be advised that the Kira Plastinina marketers should use the K Means clustering for Customer Segmentation since the clusters are clearer. * But, it would also be great to use DBSCAN for this study to be able to classify potential customers and also the outliers.