

R-Unsupervised Learning- Analysis and Modelling

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CUSTOMER CLUSTERING

Defining the Question

a) Specifying the question

To identify different customer groups based on different customer behaviors.

b) Metric for success

To be able to correctly group customers based on their behaviors.

c) Understanding the Context

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.

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.

The "Bounce Rate", "Exit Rate" and "Page Value" features represent the metrics measured by "Google Analytics" for each page in the e-commerce site.

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.

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.

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 Valentine’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.

d) Experimental Design

1. Problem Definition
2. Data Sourcing
3. Check the Data
4. Perform Data Cleaning
5. Perform Exploratory Data Analysis (Univariate, Bivariate & Multivariate)
6. Implement the Solution - Modelling
7. Challenge the Solution
8. Follow up Questions

e) Data Relevance /Sourcing

The dataset is relevant as it successfully managed to create different clusters of the customers based on different factors.

Data Understanding

Loading Libraries

```
# loading the necessary libraries
library(data.table)
#install.packages('caret')
library(caret)

## Loading required package: ggplot2

## Loading required package: lattice

library(purrr)

##
## Attaching package: 'purrr'

## The following object is masked from 'package:caret':
##      lift
```

```
## The following object is masked from 'package:data.table':
##
##     transpose
```

Loading the Dataset

```
# Loading the dataset
# we use fread and load it from a url

ecommerce <-fread("http://bit.ly/EcommerceCustomersDataset")

#previewing the first 6 rows
head(ecommerce)
```

```
##      Administrative Administrative_Duration Informational Informational_Duration
##          <int>                      <num>        <int>                      <num>
## 1:          0                      0            0                      0
## 2:          0                      0            0                      0
## 3:          0                     -1            0                      -1
## 4:          0                      0            0                      0
## 5:          0                      0            0                      0
## 6:          0                      0            0                      0
##      ProductRelated ProductRelated_Duration BounceRates ExitRates PageValues
##          <int>                      <num>        <num>        <num>        <num>
## 1:          1                     0.000000  0.20000000  0.2000000          0
## 2:          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          0
## 5:         10                  627.500000  0.02000000  0.0500000          0
## 6:         19                 154.216667  0.01578947  0.0245614          0
##      SpecialDay Month OperatingSystems Browser Region TrafficType
##          <num> <char>           <int>   <int>   <int>        <int>
## 1:          0   Feb             1       1       1          1
## 2:          0   Feb             2       2       1          2
## 3:          0   Feb             4       1       9          3
## 4:          0   Feb             3       2       2          4
## 5:          0   Feb             3       3       1          4
## 6:          0   Feb             2       2       1          3
##      VisitorType Weekend Revenue
##          <char>  <lgcl> <lgcl>
## 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
```

The last six items

```
#previewing the last 6 rows of the dataset
tail(ecommerce)
```

```
##      Administrative Administrative_Duration Informational Informational_Duration
```

```

##          <int>      <num>      <int>      <num>
## 1:       0           0           1           0
## 2:       3          145          0           0
## 3:       0           0           0           0
## 4:       0           0           0           0
## 5:       4           75          0           0
## 6:       0           0           0           0
##   ProductRelated ProductRelated_Duration BounceRates ExitRates PageValues
##          <int>            <num>      <num>      <num>      <num>
## 1:       16        503.000 0.000000000 0.03764706  0.00000
## 2:       53       1783.792 0.007142857 0.02903061 12.24172
## 3:       5        465.750 0.000000000 0.02133333 0.00000
## 4:       6        184.250 0.083333333 0.08666667 0.00000
## 5:       15       346.000 0.000000000 0.02105263 0.00000
## 6:       3        21.250 0.000000000 0.06666667 0.00000
##   SpecialDay Month OperatingSystems Browser Region TrafficType
##          <num> <char>      <int>      <int>      <int>      <int>
## 1:       0    Nov         2         2         1         1
## 2:       0    Dec         4         6         1         1
## 3:       0    Nov         3         2         1         8
## 4:       0    Nov         3         2         1        13
## 5:       0    Nov         2         2         3        11
## 6:       0    Nov         3         2         1         2
##   VisitorType Weekend Revenue
##          <char>  <lgcl>  <lgcl>
## 1: Returning_Visitor FALSE  FALSE
## 2: Returning_Visitor TRUE  FALSE
## 3: Returning_Visitor TRUE  FALSE
## 4: Returning_Visitor TRUE  FALSE
## 5: Returning_Visitor FALSE FALSE
## 6: New_Visitor     TRUE  FALSE

```

Exploratory Data Analysis

Exploring the Dataset

Converting into a tibble

```

# convert into a tibble for easier manipulation
library(tibble)
ecom<-tibble(ecommerce)

ecom <-data.frame(ecommerce)

# previewing
head(ecom)

```

```

##   Administrative Administrative_Duration Informational Informational_Duration
## 1           0                  0           0           0
## 2           0                  0           0           0
## 3           0                 -1           0           -1
## 4           0                  0           0           0
## 5           0                  0           0           0

```

```

## 6          0          0          0          0
## ProductRelated ProductRelated_Duration BounceRates ExitRates PageValues
## 1           1           0.000000  0.2000000  0.2000000      0
## 2           2           64.000000 0.0000000  0.1000000      0
## 3           1           -1.000000 0.2000000  0.2000000      0
## 4           2            2.666667 0.0500000  0.1400000      0
## 5           10          627.500000 0.0200000  0.0500000      0
## 6          19           154.216667 0.01578947 0.0245614      0
## SpecialDay Month OperatingSystems Browser Region TrafficType
## 1           0    Feb           1       1       1       1
## 2           0    Feb           2       2       1       2
## 3           0    Feb           4       1       9       3
## 4           0    Feb           3       2       2       4
## 5           0    Feb           3       3       1       4
## 6           0    Feb           2       2       1       3
## 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

```

Dimensions

```

# checking the dimensions of the dataset
# to see how many rows and coulums there are
dim(ecom)

```

```
## [1] 12330     18
```

There are 12,330 rows and 18 columns in the dataset

Data Types

```

#Checking the datatypes of the dataset
str(ecom)

```

```

## 'data.frame': 12330 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 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 ...
## $ ExitRates : num 0.2 0.1 0.2 0.14 0.05 ...
## $ PageValues : num 0 0 0 0 0 0 0 0 0 ...
## $ SpecialDay : num 0 0 0 0 0 0 0.4 0 0.8 0.4 ...
## $ Month : chr "Feb" "Feb" "Feb" "Feb" ...
## $ OperatingSystems : int 1 2 4 3 3 2 2 1 2 2 ...
## $ Browser : int 1 2 1 2 3 2 4 2 2 4 ...
## $ Region : int 1 1 9 2 1 1 3 1 2 1 ...

```

```

## $ TrafficType : int 1 2 3 4 4 3 3 5 3 2 ...
## $ VisitorType : chr "Returning_Visitor" "Returning_Visitor" "Returning_Visitor" "Return...
## $ Weekend : logi FALSE FALSE FALSE FALSE TRUE FALSE ...
## $ Revenue : logi FALSE FALSE FALSE FALSE FALSE FALSE ...
# 'Revenue' attribute can be used as the class label, "Administrative", "Administrative Duration", "Inf...
```

There are categorical(label encoded) and numerical variables, the datatypes are correct
Summary

```
# checking summary of the dataframe
summary(ecom)
```

```

## 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
## Mean : 2.318 Mean : 80.91 Mean : 0.504
## 3rd Qu.: 4.000 3rd Qu.: 93.50 3rd Qu.: 0.000
## Max. :27.000 Max. :3398.75 Max. :24.000
## NA's :14 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.: 0.00 3rd Qu.: 38.00 3rd Qu.: 1466.5
## Max. :2549.38 Max. :705.00 Max. :63973.5
## NA's :14 NA's :14 NA's :14
## BounceRates ExitRates 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
## Month OperatingSystems Browser Region
## Length:12330 Min. :1.000 Min. : 1.000 Min. :1.000
## Class :character 1st Qu.:2.000 1st Qu.: 2.000 1st Qu.: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 VisitorType Weekend 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
##
```

The summary gives us the summary statistics of all the variables

Column names

```
# checking the column names  
colnames(ecom)
```

```
## [1] "Administrative"          "Administrative_Duration"  
## [3] "Informational"           "Informational_Duration"  
## [5] "ProductRelated"          "ProductRelated_Duration"  
## [7] "BounceRates"              "ExitRates"  
## [9] "PageValues"               "SpecialDay"  
## [11] "Month"                    "OperatingSystems"  
## [13] "Browser"                  "Region"  
## [15] "TrafficType"              "VisitorType"  
## [17] "Weekend"                  "Revenue"
```

Data Cleaning

Missing values

```
#Checking for the sum of Missing values  
colSums(is.na(ecom))
```

```
##      Administrative Administrative_Duration      Informational  
##                 14                      14                     14  
##      Informational_Duration      ProductRelated ProductRelated_Duration  
##                 14                      14                     14  
##      BounceRates             ExitRates      PageValues  
##                 14                      14                     0  
##      SpecialDay               Month      OperatingSystems  
##                  0                      0                     0  
##      Browser                  Region      TrafficType  
##                  0                      0                     0  
##      VisitorType              Weekend      Revenue  
##                  0                      0                     0
```

There are 14 missing values in most columns, these will be dropped since they are not too many and dropping them won't affect our data.

Dropping missing values

```
# using the omit function to remove missing values  
ecom1 <- na.omit(ecom)  
  
# checking the changes  
colSums(is.na(ecom1))
```

```
##      Administrative Administrative_Duration      Informational  
##                 0                      0                     0  
##      Informational_Duration      ProductRelated ProductRelated_Duration  
##                 0                      0                     0  
##      BounceRates             ExitRates      PageValues
```

```

##          0          0          0
##      SpecialDay Month OperatingSystems
##          0          0          0
##      Browser Region TrafficType
##          0          0          0
##      VisitorType Weekend Revenue
##          0          0          0

```

All the missing values have been removed

Duplicates

```

#Checking for duplicates in the dataset
ecom1.duplicates <- ecom1[duplicated(ecom1),]

#printing duplicated rows
#ecom1.duplicates

```

There are 117 duplicated rows, these are to be dropped

Dropping duplicates

```

# Apply unique function for data frame in R to remove duplicates
# and assign it to a new variable

# other functions
#library(dplyr)
#distinct(mydata)
#mydata %>% distinct()
#distinct(mydata,NAME, .keep_all= TRUE)
#mydata %>% distinct(NAME, .keep_all= TRUE)

ecom2 <- unique(ecom1)

```

Confirming the changes

```

#Checking for duplicates in the dataset
ecom2.duplicates <- ecom2[duplicated(ecom2),]

#printing duplicated rows
ecom2.duplicates

```

```

## [1] Administrative           Administrative_Duration Informational
## [4] Informational_Duration ProductRelated           ProductRelated_Duration
## [7] BounceRates              ExitRates                PageValues
## [10] SpecialDay               Month                  OperatingSystems
## [13] Browser                 Region                 TrafficType
## [16] VisitorType              Weekend                Revenue
## <0 rows> (or 0-length row.names)

```

All the duplicates have been removed

Outliers More Libraries

```

library(data.table)
library(ggplot2)
library(plyr); library(dplyr)

## 
## Attaching package: 'plyr'

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

## 
## Attaching package: 'dplyr'

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

## The following objects are masked from 'package:data.table':
## 
##     between, first, last

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

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

library(moments)
library(ggcorrplot)

```

Extracting numerical columns

```

#Extracting numeric columns to analyse for outliers
library(tibble)
library(tidyverse)

## -- Attaching packages ----- tidyverse 1.3.1 --

## v tidyr    1.2.0      v stringr 1.4.0
## v readr    2.1.2      vforcats 0.5.1

## -- Conflicts ----- tidyverse_conflicts() --
## x dplyr::arrange()  masks plyr::arrange()
## x dplyr::between()  masks data.table::between()
## x plyr::compact()   masks purrr::compact()
## x dplyr::count()    masks plyr::count()

```

```

## x dplyr::failwith() masks plyr::failwith()
## x dplyr::filter() masks stats::filter()
## x dplyr::first() masks data.table::first()
## x dplyr::id() masks plyr::id()
## x dplyr::lag() masks stats::lag()
## x dplyr::last() masks data.table::last()
## x purrr::lift() masks caret::lift()
## x dplyr::mutate() masks plyr::mutate()
## x dplyr::rename() masks plyr::rename()
## x dplyr::summarise() masks plyr::summarise()
## x dplyr::summarize() masks plyr::summarize()
## x purrr::transpose() masks data.table::transpose()

```

```
#num.cols <- unlist(lapply(ecom2, is.numeric))
```

```
#printing numeric columns
#num.cols
```

```
#Extracting numeric columns to analyse for outliers
ecom2.numeric = ecom2 %>% select_if(is.numeric)
```

```
# previewing
```

```
head(ecom2.numeric)
```

```

##   Administrative Administrative_Duration Informational Informational_Duration
## 1             0                  0            0                  0
## 2             0                  0            0                  0
## 3             0                 -1            0                  -1
## 4             0                  0            0                  0
## 5             0                  0            0                  0
## 6             0                  0            0                  0
##   ProductRelated ProductRelated_Duration BounceRates ExitRates PageValues
## 1             1                0.0000000  0.20000000  0.2000000          0
## 2             2                64.0000000 0.00000000  0.1000000          0
## 3             1               -1.0000000  0.20000000  0.2000000          0
## 4             2                2.6666667  0.05000000  0.1400000          0
## 5            10                627.500000  0.02000000  0.0500000          0
## 6            19                154.2166667 0.01578947  0.0245614          0
##   SpecialDay OperatingSystems Browser Region TrafficType
## 1             0           1       1       1           1
## 2             0           2       2       1           2
## 3             0           4       1       9           3
## 4             0           3       2       2           4
## 5             0           3       3       1           4
## 6             0           2       2       1           3

```

There are eight non-numerical columns. However, some columns may appear to be numeric but are categorical, this will be dealt with during analysis. We now have a dataframe with only the numeric columns.

Column names of the numeric dataframe

```
# checking column names
print(colnames(ecom2.numeric))
```

```

## [1] "Administrative"           "Administrative_Duration"
## [3] "Informational"            "Informational_Duration"
## [5] "ProductRelated"           "ProductRelated_Duration"
## [7] "BounceRates"              "ExitRates"
## [9] "PageValues"                "SpecialDay"
## [11] "OperatingSystems"          "Browser"
## [13] "Region"                   "TrafficType"

```

Checking data types

```

# checking column names
str(ecom2.numeric)

```

```

## 'data.frame':   12199 obs. of  14 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  0 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 ...
## $ ExitRates : num  0.2 0.1 0.2 0.14 0.05 ...
## $ PageValues : num  0 0 0 0 0 0 0 0 0 0 ...
## $ 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 ...
## $ Region : int  1 1 9 2 1 1 3 1 2 1 ...
## $ TrafficType : int  1 2 3 4 4 3 3 5 3 2 ...
## - attr(*, "na.action")= 'omit' Named int [1:14] 1066 1133 1134 1135 1136 1137 1474 1475 1476 1477 ...
## ..- attr(*, "names")= chr [1:14] "1066" "1133" "1134" "1135" ...

```

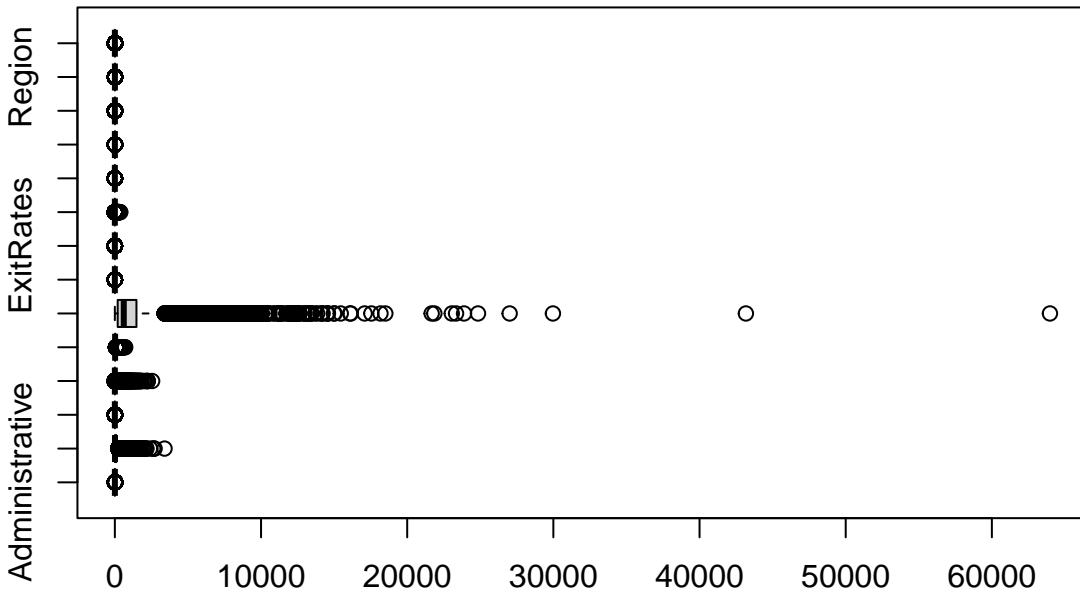
All the data types are correct, including categorical label encoded variables.

Box plots to check for outliers

```

# Summary boxplot for all numerical values
boxplot(ecom2.numeric, color = "Blue", horizontal = TRUE, notch = FALSE)

```



There are outliers in all numerical columns, with most outliers in the ProductRelated_Duration column. These will not be removed as they vital in the analysis.

Univariate Analysis

Summary statistics

```
#checking summary statistics
summary(ecom2.numeric)
```

```
##   Administrative  Administrative_Duration Informational
##   Min.    : 0.00    Min.    : -1.00        Min.    : 0.0000
##   1st Qu.: 0.00    1st Qu.:  0.00        1st Qu.: 0.0000
##   Median  : 1.00    Median  :  9.00        Median  : 0.0000
##   Mean    : 2.34    Mean    : 81.68        Mean    : 0.5088
##   3rd Qu.: 4.00    3rd Qu.: 94.75        3rd Qu.: 0.0000
##   Max.    :27.00    Max.    :3398.75        Max.    :24.0000
##   Informational_Duration ProductRelated_Duration
##   Min.    : -1.00    Min.    :  0.00        Min.    : -1.0
##   1st Qu.:  0.00    1st Qu.:  8.00        1st Qu.: 193.6
##   Median  :  0.00    Median  : 18.00        Median  : 609.5
##   Mean    : 34.84    Mean    : 32.06        Mean    : 1207.5
##   3rd Qu.:  0.00    3rd Qu.: 38.00        3rd Qu.: 1477.6
##   Max.    :2549.38    Max.    :705.00        Max.    :63973.5
##   BounceRates      ExitRates       PageValues      SpecialDay
```

```

## Min. :0.00000 Min. :0.00000 Min. : 0.000 Min. :0.00000
## 1st Qu.:0.00000 1st Qu.:0.01422 1st Qu.: 0.000 1st Qu.:0.00000
## Median :0.00293 Median :0.02500 Median : 0.000 Median :0.00000
## Mean :0.02045 Mean :0.04150 Mean : 5.952 Mean :0.06197
## 3rd Qu.:0.01667 3rd Qu.:0.04848 3rd Qu.: 0.000 3rd Qu.:0.00000
## Max. :0.20000 Max. :0.20000 Max. :361.764 Max. :1.00000
## OperatingSystems Browser Region TrafficType
## Min. :1.000 Min. : 1.000 Min. :1.000 Min. : 1.000
## 1st Qu.:2.000 1st Qu.: 2.000 1st Qu.:1.000 1st Qu.: 2.000
## Median :2.000 Median : 2.000 Median :3.000 Median : 2.000
## Mean :2.124 Mean : 2.358 Mean :3.153 Mean : 4.075
## 3rd Qu.:3.000 3rd Qu.: 2.000 3rd Qu.:4.000 3rd Qu.: 4.000
## Max. :8.000 Max. :13.000 Max. :9.000 Max. :20.000

```

Univariate summary gives us the minimum, median, mean and maximum of all numerical variables, including categorical label encoded variables.

Measures of Central Tendency

###i) Mean

```

#means of all numeric columns in the dataset
# assigning a mean variable
ecom2.numeric.means <- colMeans(data.frame(ecom2.numeric))

# Printing out
ecom2.numeric.means

```

```

##      Administrative Administrative_Duration      Informational
##      2.340028e+00          8.168214e+01          5.088122e-01
##  Informational_Duration      ProductRelated ProductRelated_Duration
##      3.483734e+01          3.205845e+01          1.207508e+03
##      BounceRates           ExitRates           PageValues
##      2.044674e-02          4.149678e-02          5.952500e+00
##      SpecialDay            OperatingSystems        Browser
##      6.197229e-02          2.124354e+00          2.358144e+00
##      Region                TrafficType
##      3.153291e+00          4.074596e+00

```

The means of all the numerical variables are shown above. The administrative units were averagely 2.3, administrative duration 81.68, informational 0.5 units, informational duration 34.83 units. The bounce rates had an average of 0.02 units while exit rates had an average of 0.04 units.

###ii) Median

```

#median of all numeric columns in the dataset
# importing matrixstats library
library(matrixStats)

```

```

##
## Attaching package: 'matrixStats'

```

```

## The following object is masked from 'package:dplyr':
##
##     count

## The following object is masked from 'package:plyr':
##
##     count

library(dbplyr)

##
## Attaching package: 'dbplyr'

## The following objects are masked from 'package:dplyr':
##
##     ident, sql

library(dplyr)

#assigning a median variable
ecom2.numeric.median <- colMedians(as.matrix.data.frame(ecom2.numeric))

# Printing out
print(ecom2.numeric.median)

## [1] 1.000000e+00 9.000000e+00 0.000000e+00 0.000000e+00 1.800000e+01
## [6] 6.095417e+02 2.930403e-03 2.500000e-02 0.000000e+00 0.000000e+00
## [11] 2.000000e+00 2.000000e+00 3.000000e+00 2.000000e+00

```

The median of all the variables is shown above. Median is the measure of the most central data point when the data point is sort in some order.

####iii) Mode

```

# We create the mode function that will perform our mode operation for us
# The mode will give us values that appeared the most number of times
#mode function
FindMode <- function(ecom2) {
  uniqv <- unique(ecom2)
  uniqv[which.max(tabulate(match(ecom2, uniqv)))]
}

# Calculating the mode using out getmode() function
ecom2.numeric.mode <- data.frame(ecom2)

# Printing out

apply(ecom2.numeric.mode, 2, FindMode)

```

```

##          Administrative Administrative_Duration      Informational
##                  " 0"           " 0.000000"           " 0"
##  Informational_Duration       ProductRelated ProductRelated_Duration

```

```

##          " 0.000000"           " 1"          " 0.000000"
##      BounceRates          ExitRates        PageValues
##      "0.000000000"       "0.200000000"     " 0.00000000"
##      SpecialDay          Month          OperatingSystems
##          "0.0"            "May"           "2"
##      Browser             Region          TrafficType
##          " 2"            "1"              " 2"
##      VisitorType         Weekend         Revenue
##      "Returning_Visitor" "FALSE"        "FALSE"

```

Mode shows the most common data point. The month of May appeared most compared to other months. Most visitors were return visitors. Region type 1, browser type 2 and operating system 2 appeared the most

Measures of Dispersion

We will use the numeric data-frame while calculating measures of dispersion

i) Minimum

```

# Finding the minimum values of the numerical columns
sapply(ecom2.numeric, min)

```

```

##      Administrative Administrative_Duration      Informational
##          0                  -1                      0
##  Informational_Duration          ProductRelated ProductRelated_Duration
##          -1                  0                      -1
##      BounceRates          ExitRates        PageValues
##          0                  0                      0
##      SpecialDay          OperatingSystems      Browser
##          0                  1                      1
##      Region             TrafficType
##          1                  1

```

Most variables had minimum values of -1, 0 and 1.

ii) Maximum

```

# Finding the maximum values of the numerical columns
sapply(ecom2.numeric, max)

```

```

##      Administrative Administrative_Duration      Informational
##      27.0000          3398.7500          24.0000
##  Informational_Duration          ProductRelated ProductRelated_Duration
##      2549.3750          705.0000         63973.5222
##      BounceRates          ExitRates        PageValues
##          0.2000          0.2000          361.7637
##      SpecialDay          OperatingSystems      Browser
##          1.0000          8.0000          13.0000
##      Region             TrafficType
##          9.0000          20.0000

```

The maximum values of the variables are shown above.

iii) Variance

```
# Finding the variance of all the variables
# area <- sd(no.outliers.numeric$Area.Income)
sapply(ecom2.numeric, var)
```

```
##          Administrative Administrative_Duration      Informational
##          1.109457e+01      3.151625e+04      1.627710e+00
##  Informational_Duration
##          2.001051e+04      1.989241e+03      3.686121e+06
##          BounceRates        ExitRates        PageValues
##          2.061387e-03      2.138800e-03      3.481132e+02
##          SpecialDay        OperatingSystems      Browser
##          3.988432e-02      8.226229e-01      2.926075e+00
##          Region            TrafficType
##          5.771712e+00      1.612675e+01
```

The variance of the variables are shown above.

iv) Standard Deviation

```
# Finding the standard deviation for all numeric variables
sapply(ecom2.numeric, sd)
```

```
##          Administrative Administrative_Duration      Informational
##          3.330851e+00      1.775282e+02      1.275817e+00
##  Informational_Duration
##          1.414585e+02      4.460091e+01      1.919927e+03
##          BounceRates        ExitRates        PageValues
##          4.540250e-02      4.624716e-02      1.865779e+01
##          SpecialDay        OperatingSystems      Browser
##          1.997106e-01      9.069856e-01      1.710578e+00
##          Region            TrafficType
##          2.402439e+00      4.015813e+00
```

The standard deviation of the variables are shown above.

v) Kurtosis

```
# finding the kurtosis of the numerical columns
kurtosis(ecom2.numeric) #, pvalue = FALSE)
```

```
##          Administrative Administrative_Duration      Informational
##          7.636106      53.093885      29.642540
##  Informational_Duration
##          ProductRelated ProductRelated_Duration
```

```

##          78.464088          34.049027          139.590792
##      BounceRates           ExitRates          PageValues
##          12.255064          7.624252          67.940307
##      SpecialDay           OperatingSystems       Browser
##          12.786054          13.268868          15.536590
##      Region                TrafficType
##          2.840195          6.466127

```

Kurtosis can be interpreted as below:

If the coefficient of kurtosis is less than 3, then the data distribution is platykurtic, the tip of the curve is almost flat.

If the coefficient of kurtosis is equal to 3 or approximately close to 3, then the data distribution is mesokurtic (normal distribution curve).

If the coefficient of kurtosis is greater than 3, then the data distribution is leptokurtic (very steep curve).

All variables are leptokurtic except Region that tends to have a mesokurtic skewness.

vi) Skewness

```

# Finding the skewness of the numerical columns
skewness(ecom2.numeric) #, pvalue = FALSE

```

```

##      Administrative Administrative_Duration      Informational
##          1.9462480          5.5902100          4.0134515
##  Informational_Duration           ProductRelated ProductRelated_Duration
##          7.5374347          4.3321339          7.2514033
##      BounceRates           ExitRates          PageValues
##          3.1528740          2.2331253          6.3486630
##      SpecialDay           OperatingSystems       Browser
##          3.2844806          2.0319546          3.2156527
##      Region                TrafficType
##          0.9787304          1.9585221

```

All the variables are positively skewed

Univariate Graphical Analysis

previewing data-frame

```

# Previewing the first 6 rows of the
# categorical and numerical data-frame initially loaded

head(ecom2)

```

```

##      Administrative Administrative_Duration Informational Informational_Duration
## 1              0                      0              0                  0
## 2              0                      0              0                  0
## 3              0                     -1              0                 -1
## 4              0                      0              0                  0
## 5              0                      0              0                  0

```

```

## 6          0          0          0          0
## ProductRelated ProductRelated_Duration BounceRates ExitRates PageValues
## 1          1          0.000000  0.2000000  0.2000000  0
## 2          2          64.000000 0.0000000  0.1000000  0
## 3          1          -1.000000 0.2000000  0.2000000  0
## 4          2          2.666667  0.0500000  0.1400000  0
## 5          10         627.500000 0.0200000  0.0500000  0
## 6          19         154.216667 0.01578947 0.0245614  0
## SpecialDay Month OperatingSystems Browser Region TrafficType
## 1          0   Feb          1      1      1      1
## 2          0   Feb          2      2      1      2
## 3          0   Feb          4      1      9      3
## 4          0   Feb          3      2      2      4
## 5          0   Feb          3      3      1      4
## 6          0   Feb          2      2      1      3
## 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

```

Columns

```
# printing column names
colnames(ecom2)
```

```

## [1] "Administrative"           "Administrative_Duration"
## [3] "Informational"            "Informational_Duration"
## [5] "ProductRelated"           "ProductRelated_Duration"
## [7] "BounceRates"               "ExitRates"
## [9] "PageValues"                "SpecialDay"
## [11] "Month"                     "OperatingSystems"
## [13] "Browser"                   "Region"
## [15] "TrafficType"               "VisitorType"
## [17] "Weekend"                   "Revenue"

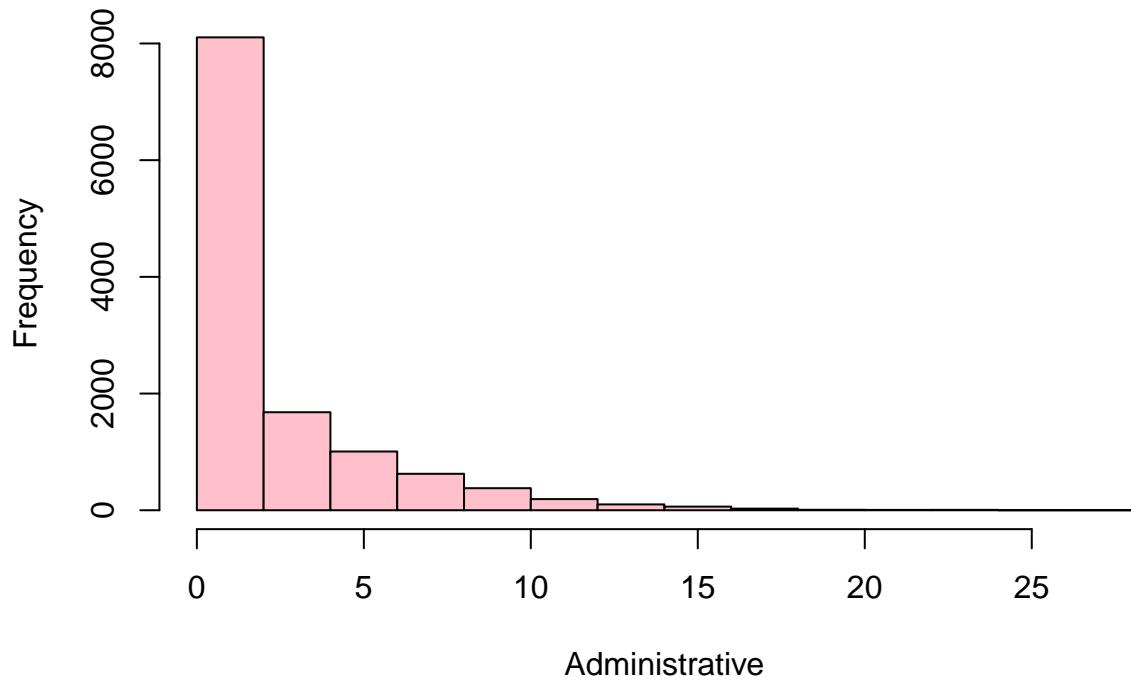
```

Plotting Histograms

Numerical Administrative

```
#Histogram of administrative column
hist(ecom2$Administrative,
      main = 'Histogram of Administrative',
      xlab = 'Administrative',
      col= "pink")
```

Histogram of Administrative

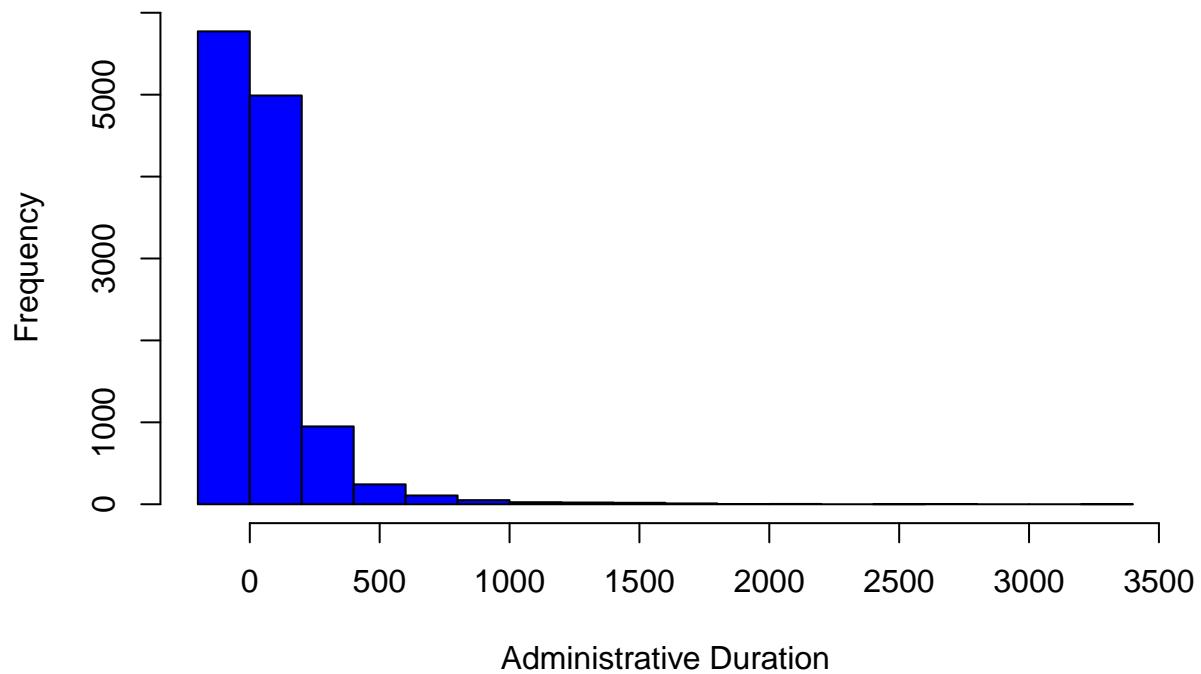


Data from the administrative column is skewed to the right, with very steep values on the left. More people visited the Administrative page but did not spend so much time on the page.

Administrative Duration

```
#Histogram of administrative duration
hist(ecom2$Administrative_Duration,
      main = 'Histogram of Administrative Duration',
      xlab = 'Administrative Duration',
      col= "blue")
```

Histogram of Administrative Duration

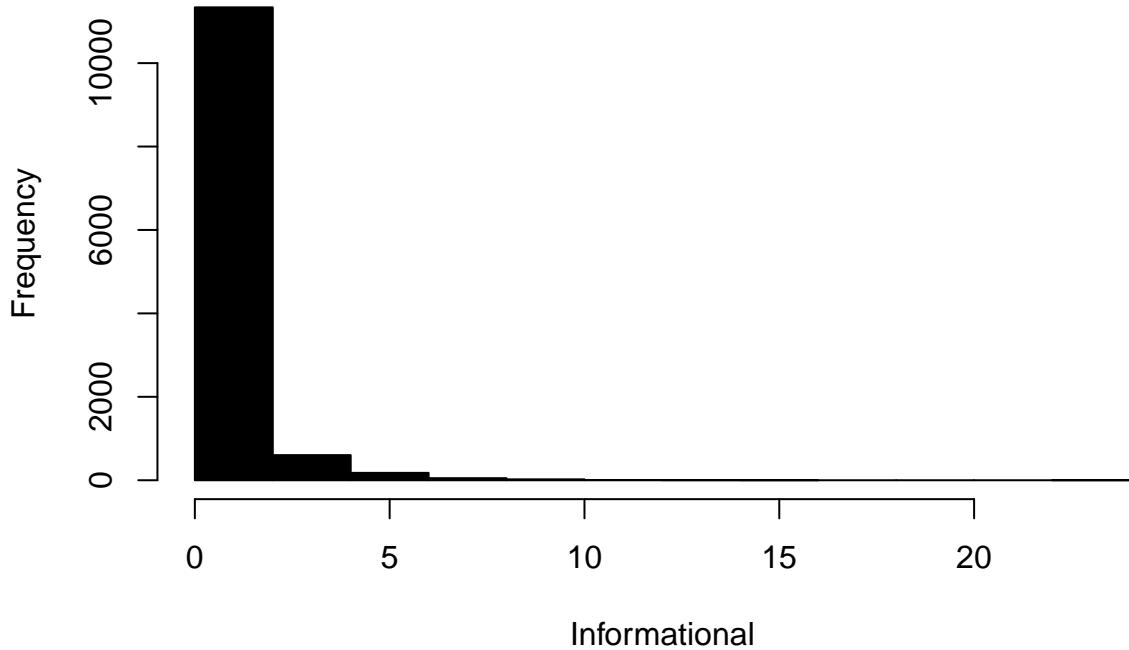


Administrative Duration is slightly skewed to the right with high values on the left. This means that people spent slightly much time Administrative page.

Informational

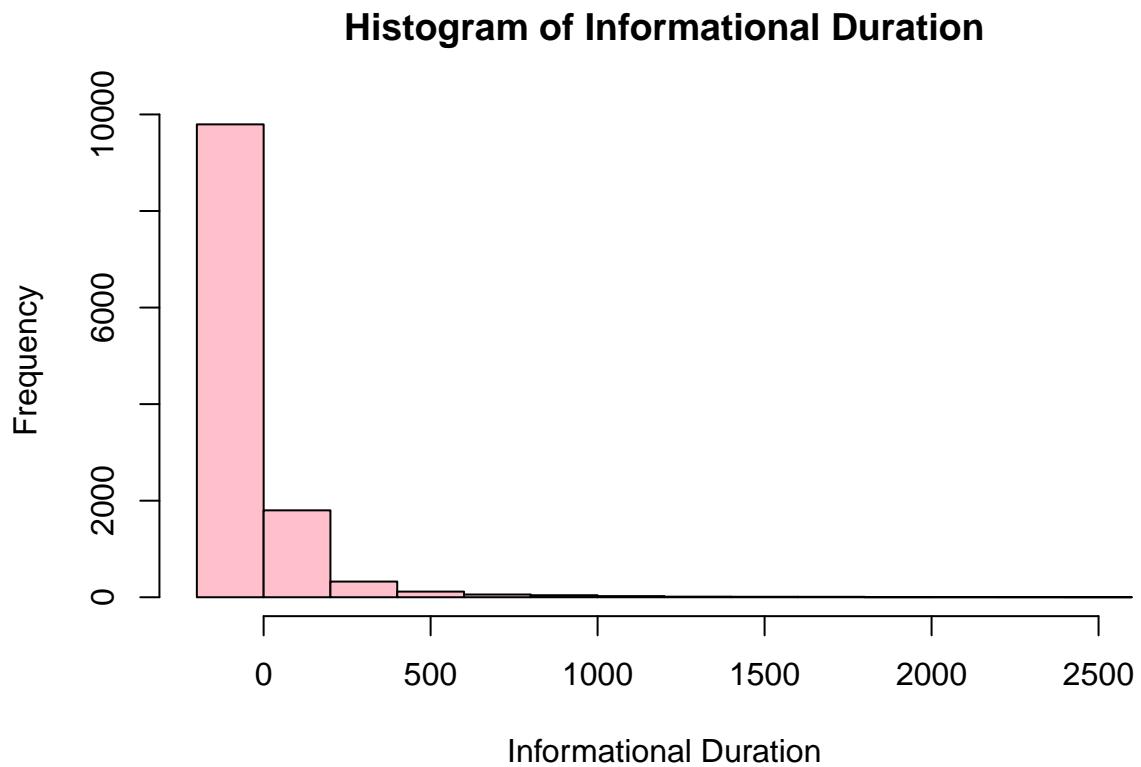
```
#Histogram of informational column
hist(ecom2$Informational,
  main = 'Histogram of Informational',
  xlab = 'Informational',
  col= "black")
```

Histogram of Informational



The variable informational is skewed to the right. Most people spent more time on the Informational pages.
Informational Duration

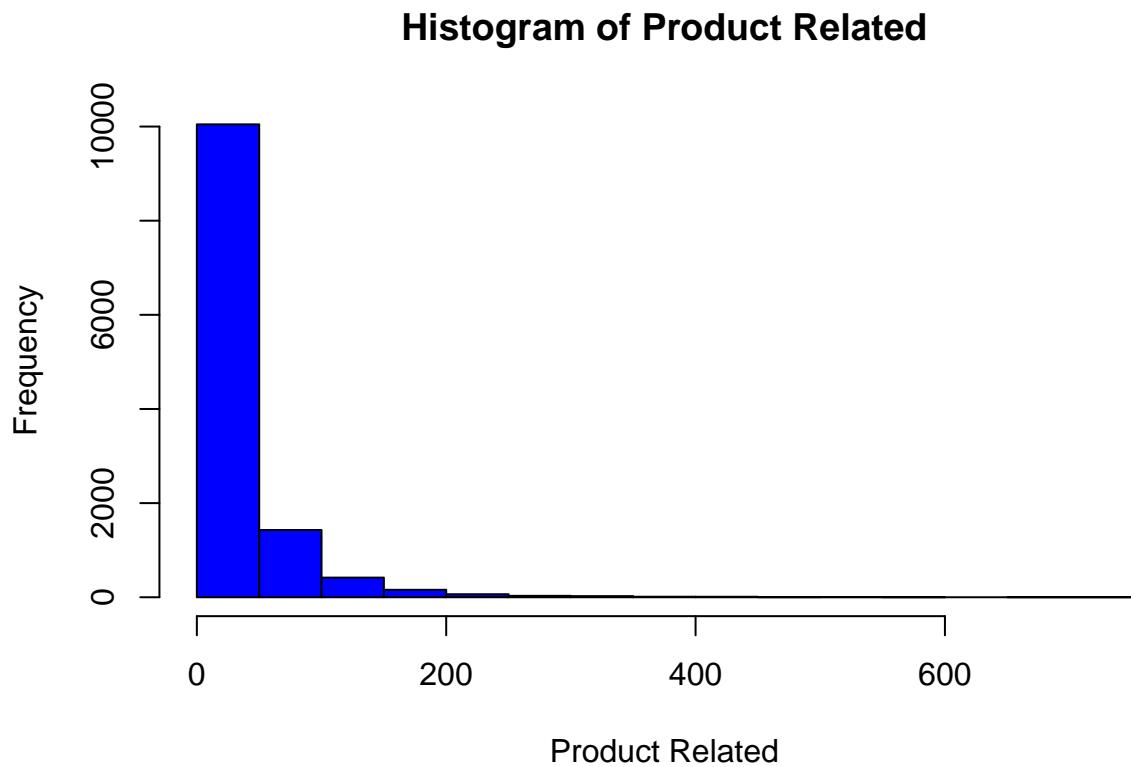
```
#Histogram of Informational_Duration column
hist(ecom2$Informational_Duration,
      main = 'Histogram of Informational Duration',
      xlab = 'Informational Duration',
      col= "pink")
```



Informational duration data is right skewed, with a steep peak. This shows that most people spent much time on the page.

Product Related

```
#Histogram of ProductRelated column
hist(ecom2$ProductRelated,
      main = 'Histogram of Product Related',
      xlab = 'Product Related',
      col= "blue")
```

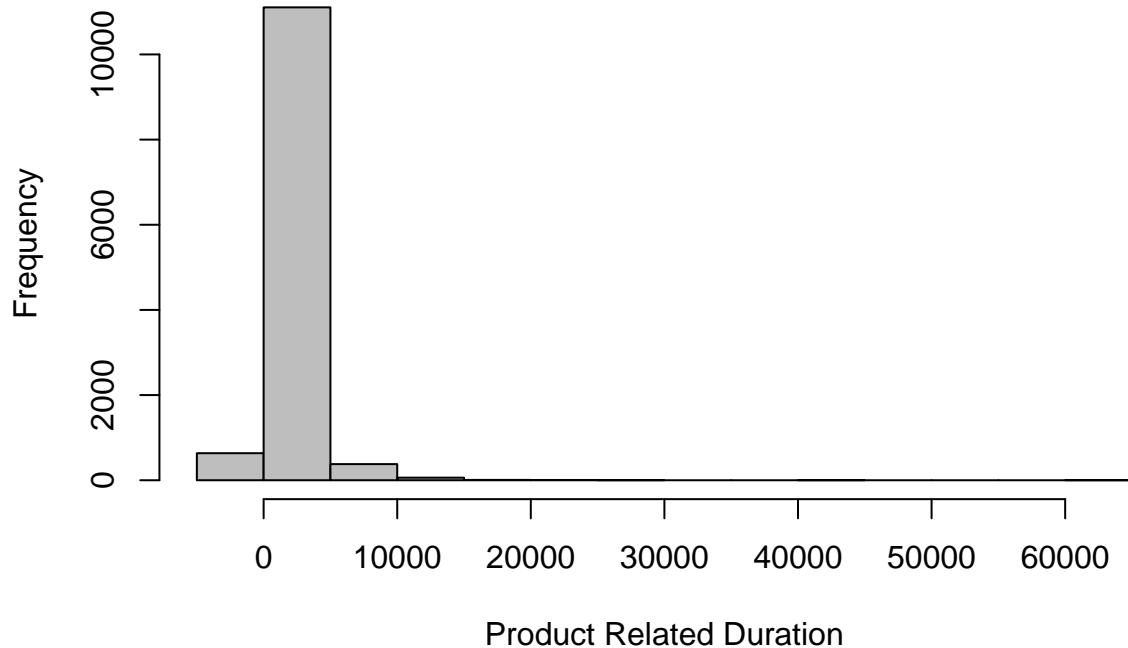


The time spent on the sites is right skewed, meaning most people spent much time on the page.

Product Related Duration

```
#Histogram of ProductRelated_Duration column
hist(ecom2$ProductRelated_Duration,
  main = 'Histogram of Product Related Duration',
  xlab = 'Product Related Duration',
  col= "grey")
```

Histogram of Product Related Duration



There is a normal distribution with a very steep peak. This is leptokurtic distribution. This means that the amount of time spent on the site is normally distributed, with very high peaks.

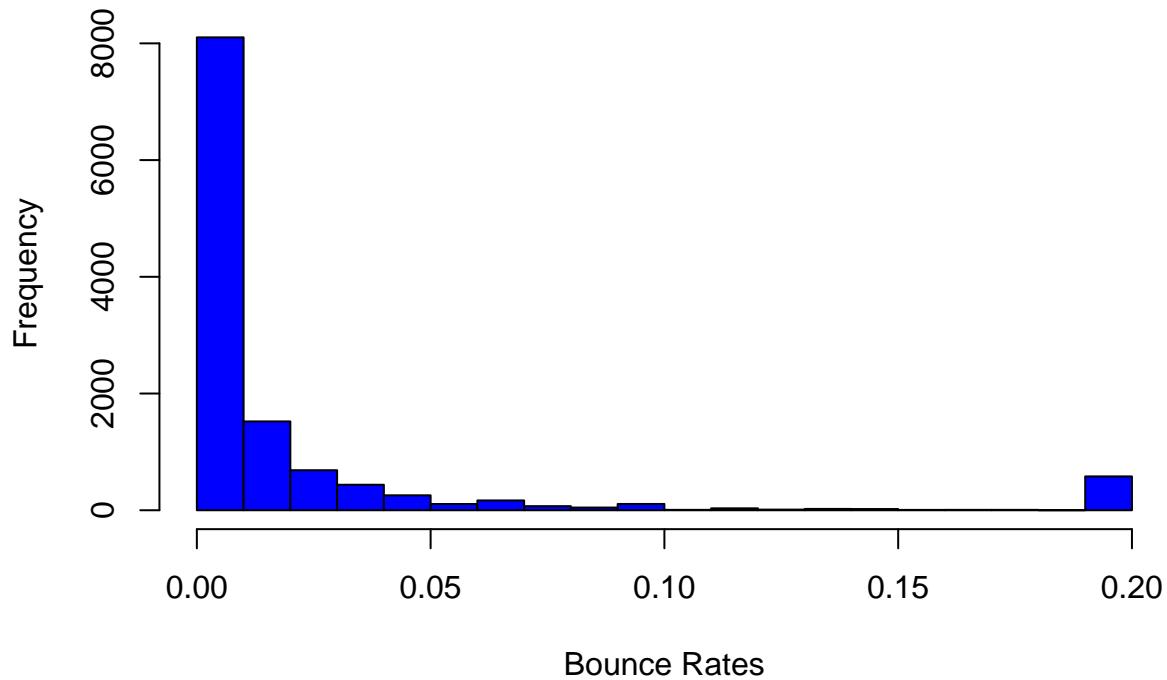
```
# printing column names
colnames(ecom2)

## [1] "Administrative"          "Administrative_Duration"
## [3] "Informational"           "Informational_Duration"
## [5] "ProductRelated"          "ProductRelated_Duration"
## [7] "BounceRates"              "ExitRates"
## [9] "PageValues"               "SpecialDay"
## [11] "Month"                    "OperatingSystems"
## [13] "Browser"                  "Region"
## [15] "TrafficType"              "VisitorType"
## [17] "Weekend"                  "Revenue"
```

Bounce Rates

```
#Histogram of BounceRates column
hist(ecom2$BounceRates,
     main = 'Histogram of Bounce Rates',
     xlab = 'Bounce Rates',
     col= "blue")
```

Histogram of Bounce Rates

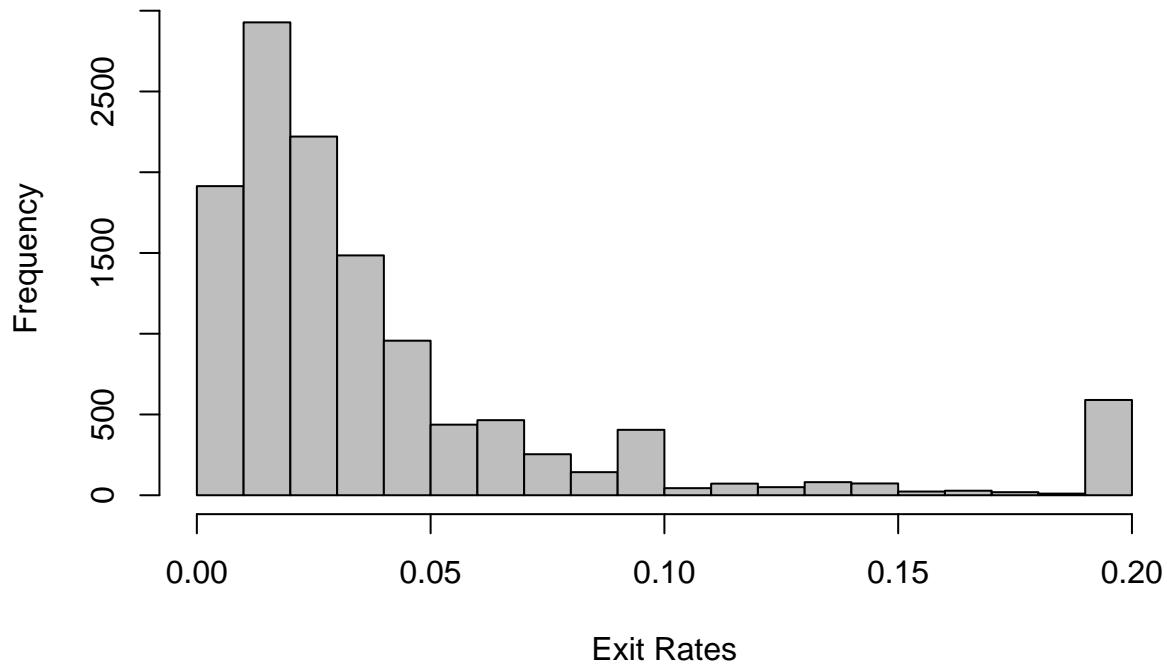


The distribution is right skewed. This means that most people who would enter the site from those pages would also trigger other requests.

Exit Rates

```
#Histogram of ExitRates column
hist(ecom2$ExitRates,
  main = 'Histogram of Exit Rates',
  xlab = 'Exit Rates',
  col= "grey")
```

Histogram of Exit Rates

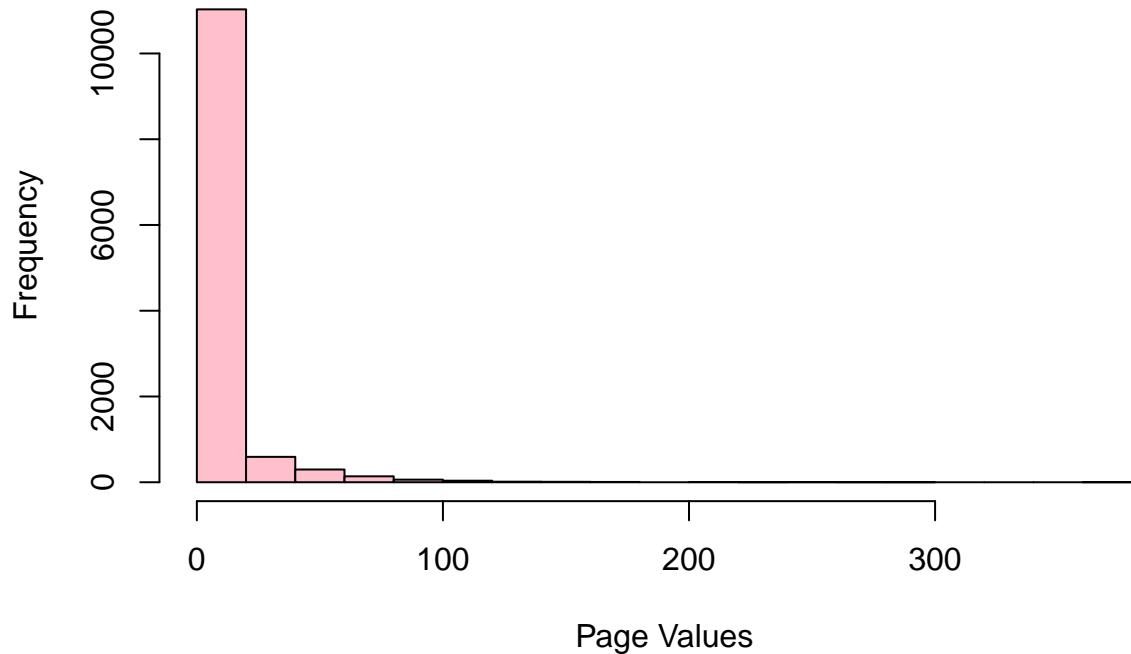


Data is slightly skewed to the right. This means that there were lower exit rates. Meaning most people would spend a good amount of time on the pages per session.

Page Values

```
#Histogram of PageValues column
hist(ecom2$PageValues,
  main = 'Histogram of Page Values',
  xlab = 'Page Values',
  col= "pink")
```

Histogram of Page Values

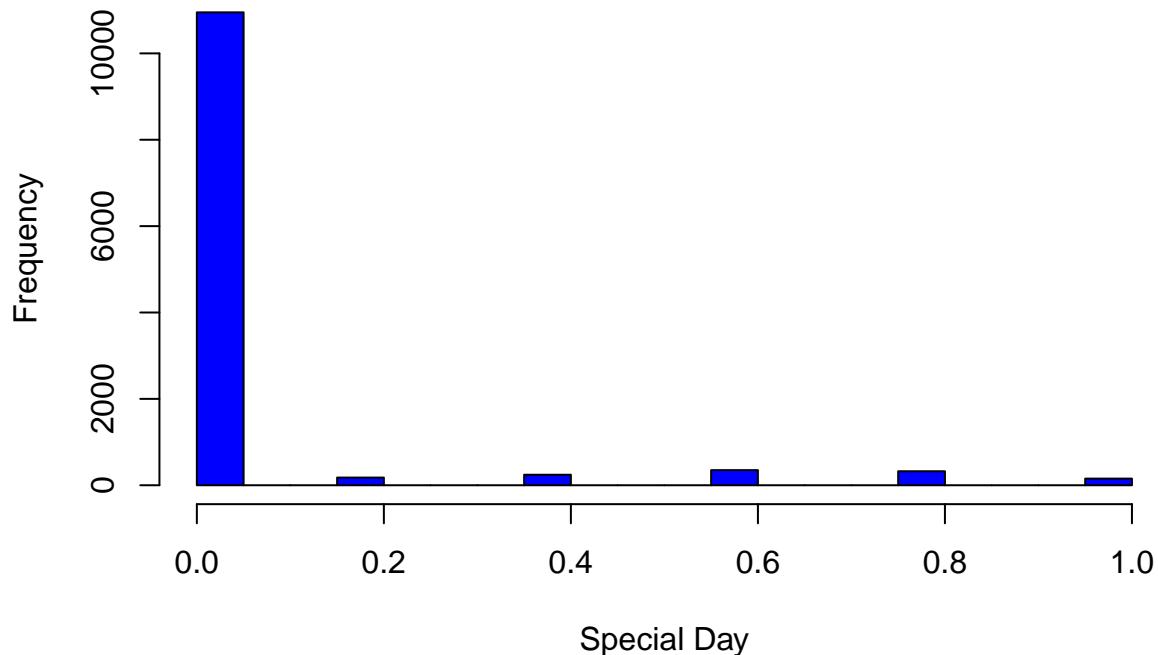


The data points for Page Values are right skewed with a steep peak. Pages with low values had people spend so much time on them before completing an e-commerce transaction.

Special Day

```
#Histogram of SpecialDay column
hist(ecom2$SpecialDay,
  main = 'Histogram of Special Day',
  xlab = 'Special Day',
  col= "blue")
```

Histogram of Special Day



The data points of Special Day are right skewed. Most people visited the pages before or after special days.

Categorical column names

```
colnames(ecom2)

## [1] "Administrative"          "Administrative_Duration"
## [3] "Informational"           "Informational_Duration"
## [5] "ProductRelated"          "ProductRelated_Duration"
## [7] "BounceRates"              "ExitRates"
## [9] "PageValues"               "SpecialDay"
## [11] "Month"                    "OperatingSystems"
## [13] "Browser"                  "Region"
## [15] "TrafficType"              "VisitorType"
## [17] "Weekend"                  "Revenue"
```

We will plot frequency distribution plots to show distribution of categorical data

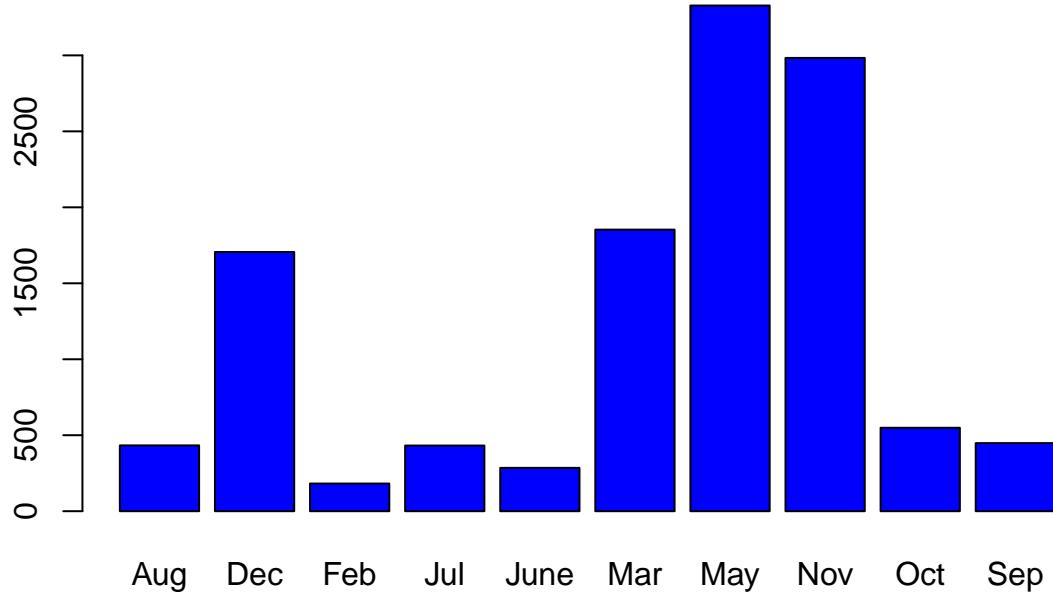
Month

```
#Frequency plots for month column
Month<- ecom2$Month
Month_frequency<- table(Month)
Month_frequency
```

```
## Month
```

```
##   Aug   Dec   Feb   Jul   June   Mar   May   Nov   Oct   Sep
##  433 1706  182  432  285 1853 3328 2983  549  448
```

```
barplot(Month_frequency,col="Blue")
```



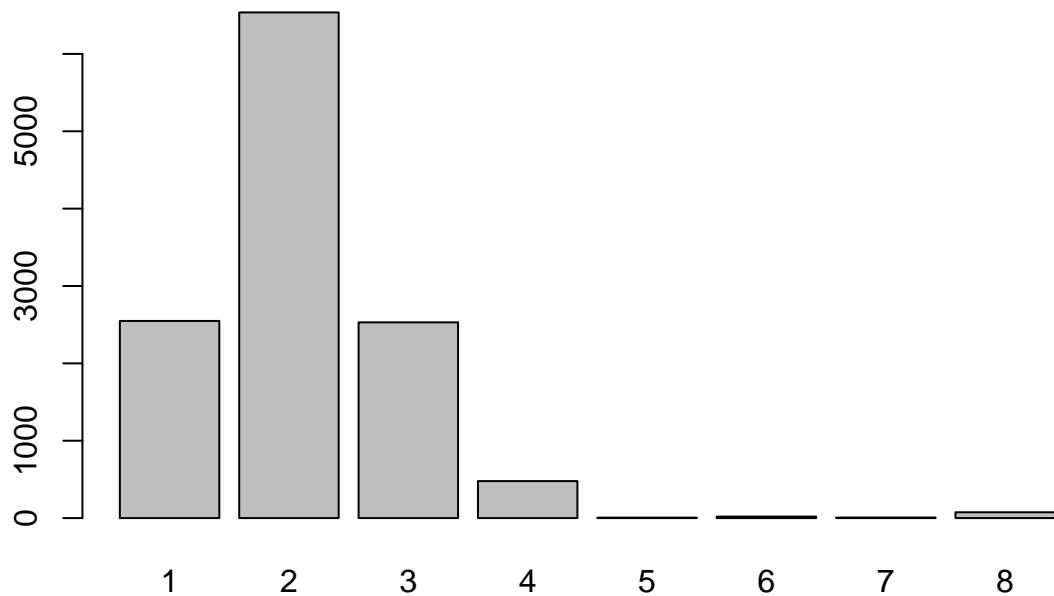
Most people visited the pages in May had the highest values followed by November. February and June had the lowest page visits.

Operating System

```
#Frequency plots for OS column
OperatingSystems<- ecom2$OperatingSystems
OperatingSystems_frequency<- table(OperatingSystems)
OperatingSystems_frequency
```

```
## OperatingSystems
##   1    2    3    4    5    6    7    8
## 2548 6536 2530  478     6   19     7   75
```

```
barplot(OperatingSystems_frequency,col="grey")
```



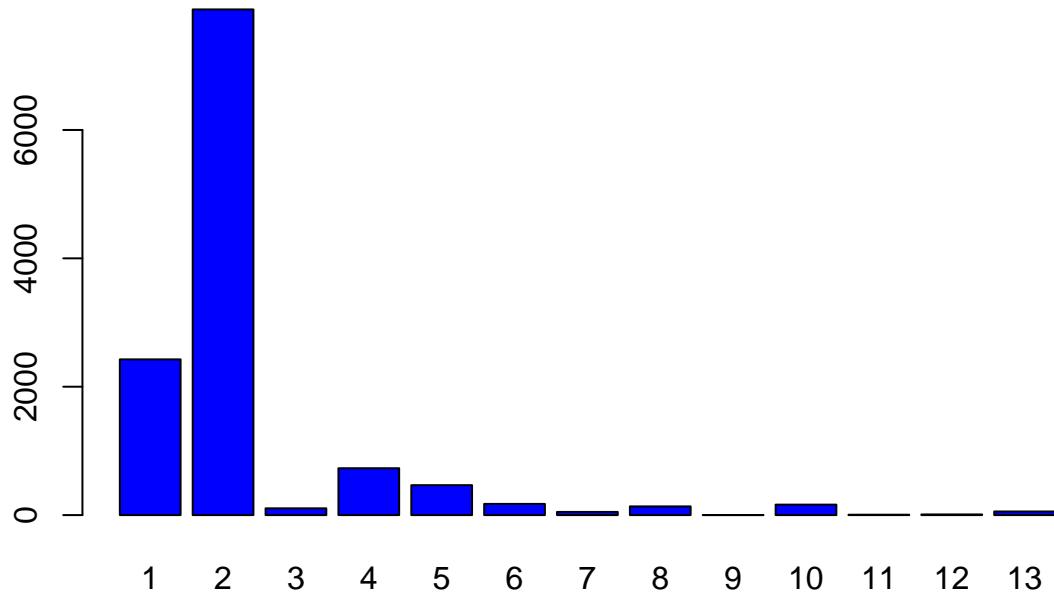
Operation system 2 had the highest values followed by operation 1 and 3. Operation system 5 - 8 had very low values.

Browser

```
#Frequency plots for Browser column
Browser<- ecom2$Browser
Browser_frequency<- table(Browser)
Browser_frequency
```

```
## Browser
##   1   2   3   4   5   6   7   8   9   10  11  12  13
## 2426 7878 105 730 466 174 49 135    1 163    6 10 56
```

```
barplot(Browser_frequency,col="Blue")
```



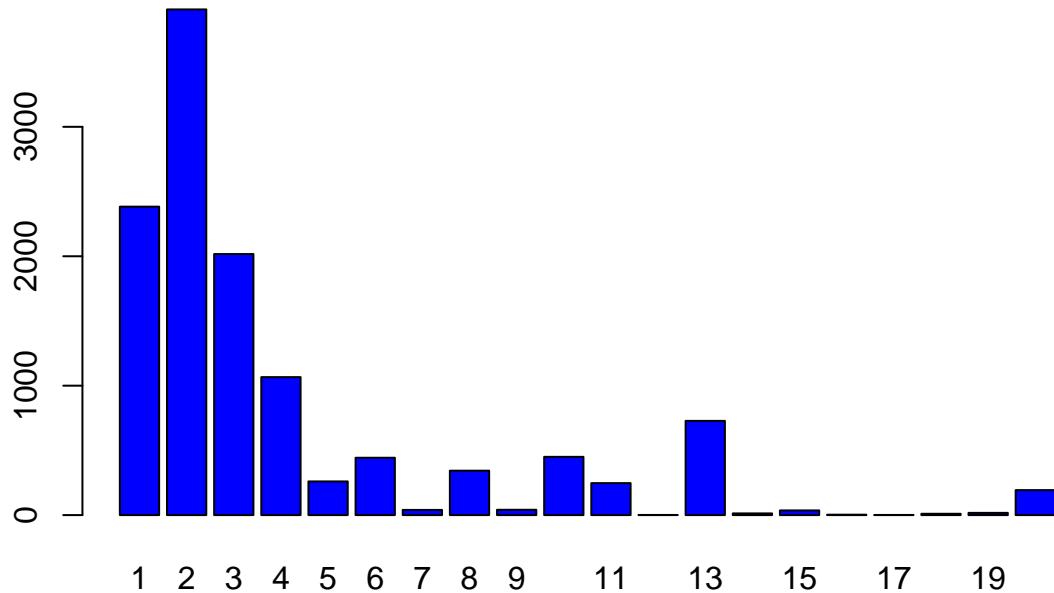
Browser 2 was the most used browser followed by browser 1. Browsers 3, 6-13 had the lowest users. The data is right skewed.

Traffic Type

```
#Frequency plots for TrafficType column
TrafficType<- ecom2$TrafficType
TrafficType_frequency<- table(TrafficType)
TrafficType_frequency

## TrafficType
##   1    2    3    4    5    6    7    8    9    10   11   12   13   14   15   16
## 2383 3907 2017 1066  260  443   40  343   41  450  247    1  728   13   36    3
##   17   18   19   20
##    1   10   17  193

barplot(TrafficType_frequency, col="Blue")
```



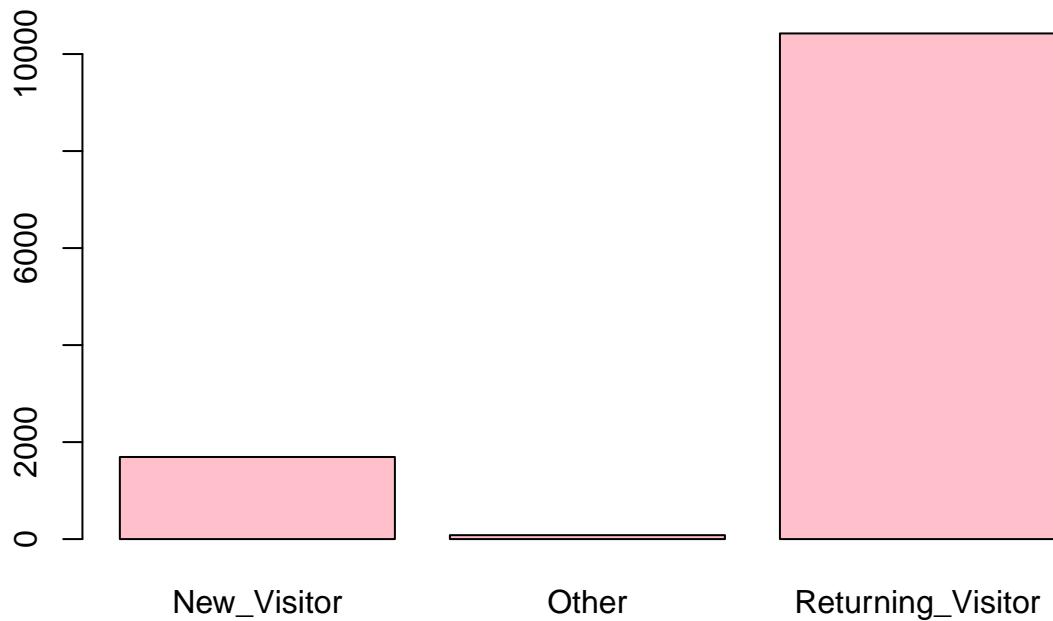
The traffic type is skewed to the right. Traffic type 2 had the most users followed by, traffic type 1 and 3. Traffic types 7, 9, 12, 14 - 19 had very low numbers of users

Visitor Type

```
#Frequency plots for weekend column
VisitorType<- ecom2$VisitorType
VisitorType_frequency<- table(VisitorType)
VisitorType_frequency

## VisitorType
##      New_Visitor          Other Returning_Visitor
##           1693                  81            10425

barplot(VisitorType_frequency,col="pink")
```



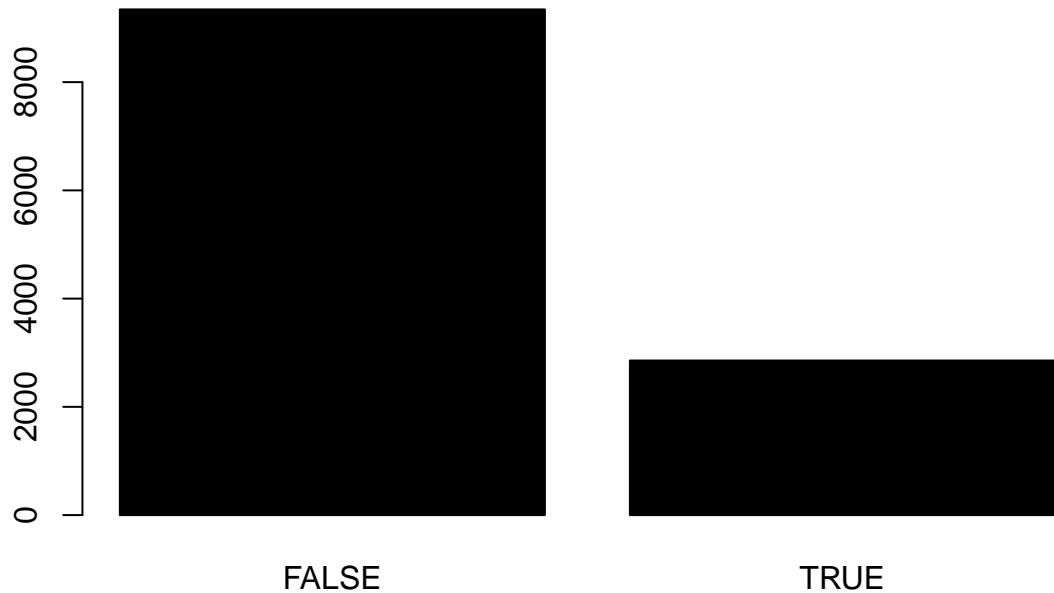
Most users would return to the site, a small number were visitors.

Weekend

```
#Frequency plots for weekend column
Weekend<- ecom2$Weekend
Weekend_frequency<- table(Weekend)
Weekend_frequency
```

```
## Weekend
## FALSE TRUE
## 9343 2856
```

```
barplot(Weekend_frequency, col="Black")
```



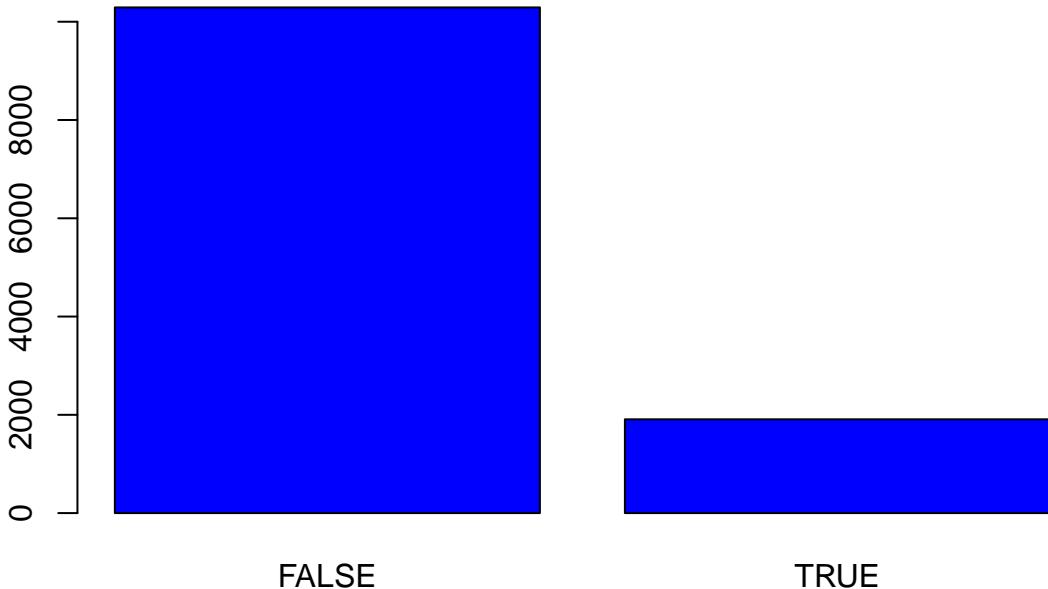
The people that did not visit pages on weekends were more than those that did.

Revenue

```
#Frequency plots for Revenue column
Revenue<- ecom2$Revenue
Revenue_frequency<- table(Revenue)
Revenue_frequency
```

```
## Revenue
## FALSE   TRUE
## 10291   1908
```

```
barplot(Revenue_frequency,col="Blue")
```



Most page visits did not generate revenue

Bivariate Graphical Analysis

Categorical vs. Categorical

column names

```
# printing a list of the column names

colnames(ecom2)

## [1] "Administrative"          "Administrative_Duration"
## [3] "Informational"           "Informational_Duration"
## [5] "ProductRelated"          "ProductRelated_Duration"
## [7] "BounceRates"              "ExitRates"
## [9] "PageValues"                "SpecialDay"
## [11] "Month"                     "OperatingSystems"
## [13] "Browser"                   "Region"
## [15] "TrafficType"              "VisitorType"
## [17] "Weekend"                   "Revenue"
```

Stacked bar graphs

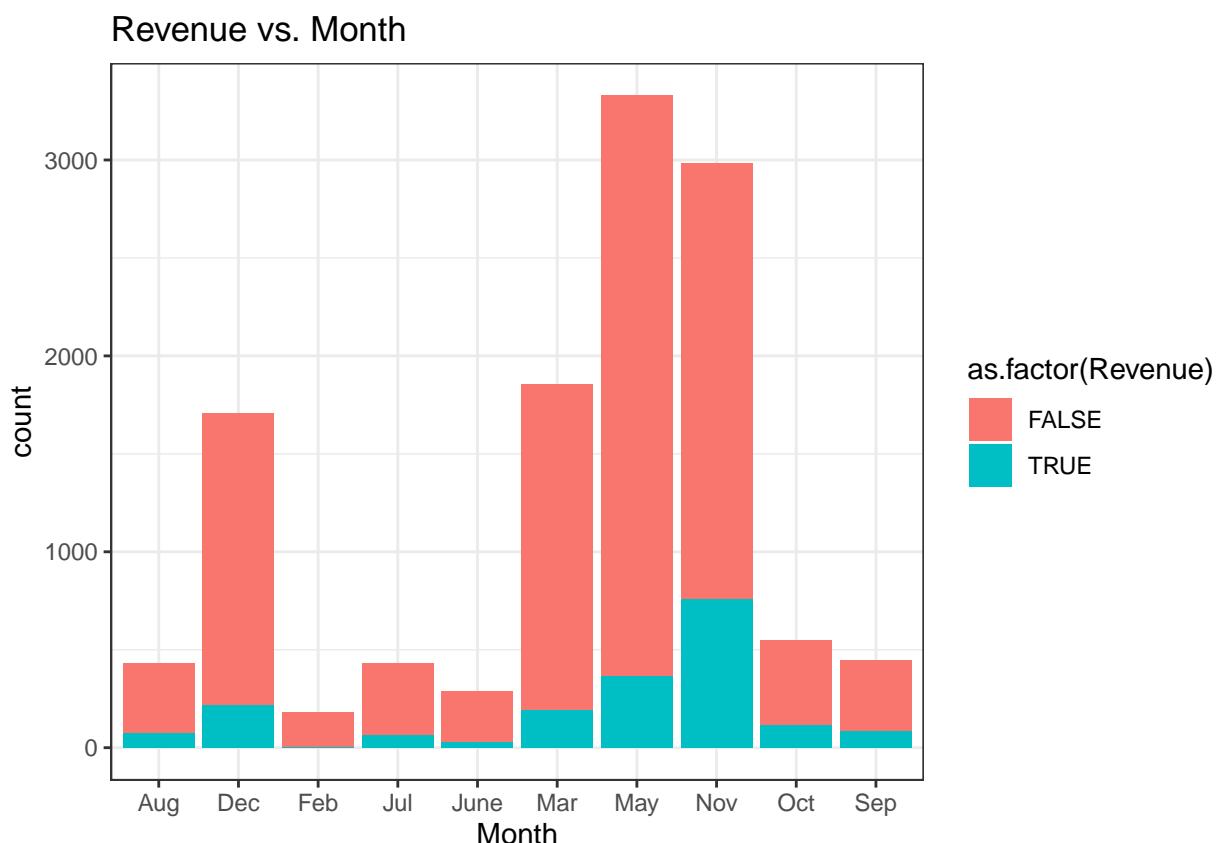
Revenue vs. Months

```

# we will use stacked bargraphs to show the distribution of
# revenue on different months
# we will have the distribution of the revenue on the x axis and
# the month column as fill

ggplot(data= ecom2)+geom_bar(aes(x=Month, fill=as.factor(Revenue)))+
  ggtitle(label="Revenue vs. Month")+
  theme_bw() # picks a color theme

```



There was no Revenue collected when there were no people that visited the online stores during the months that the data was collected.

Revenue vs. OS

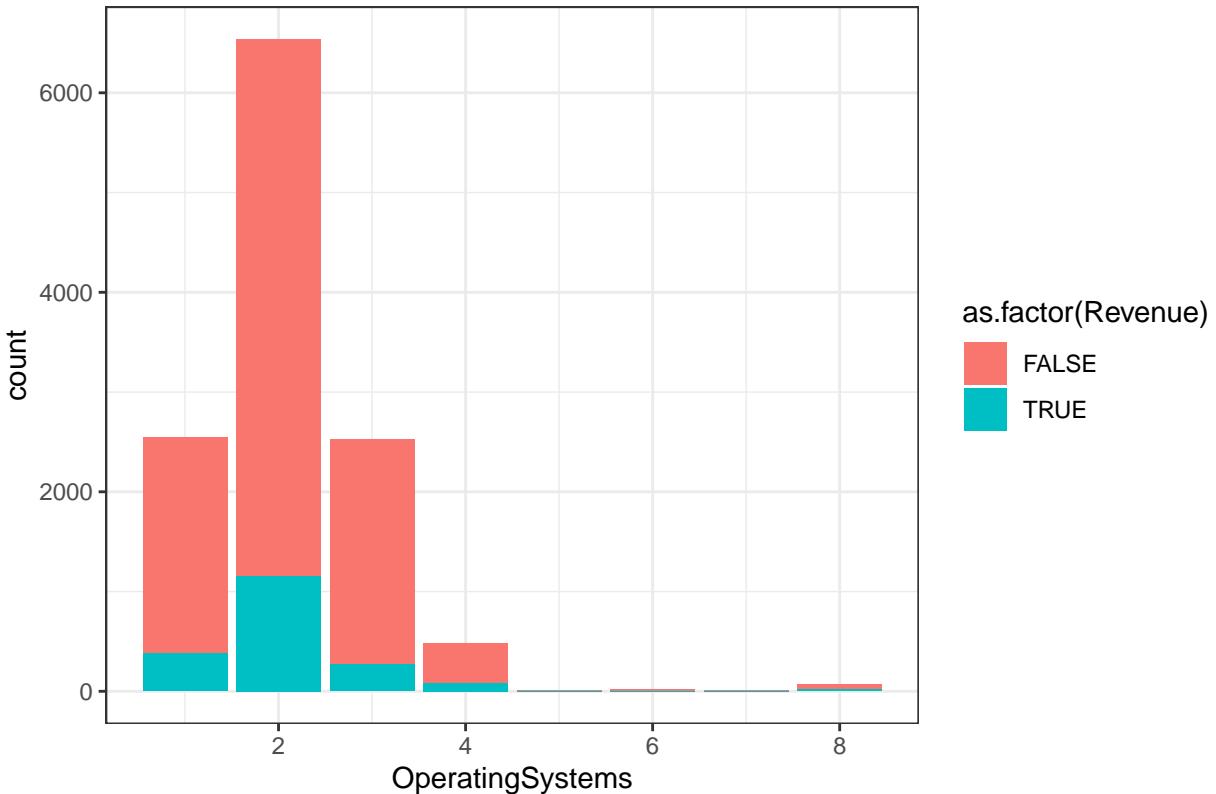
```

# we will use stacked bargraphs to show the distribution of
# revenue on different months
# we will have the distribution of the OperatingSystems on the x axis and
# the revenue column as fill

ggplot(data= ecom2)+geom_bar(aes(x=OperatingSystems, fill=as.factor(Revenue)))+
  ggtitle(label="Revenue vs. Operating Systems")+
  theme_bw() # picks a color theme

```

Revenue vs. Operating Systems



The type of Operating System had no significant impact on the amount of Revenue collected over the months that the data was collected.

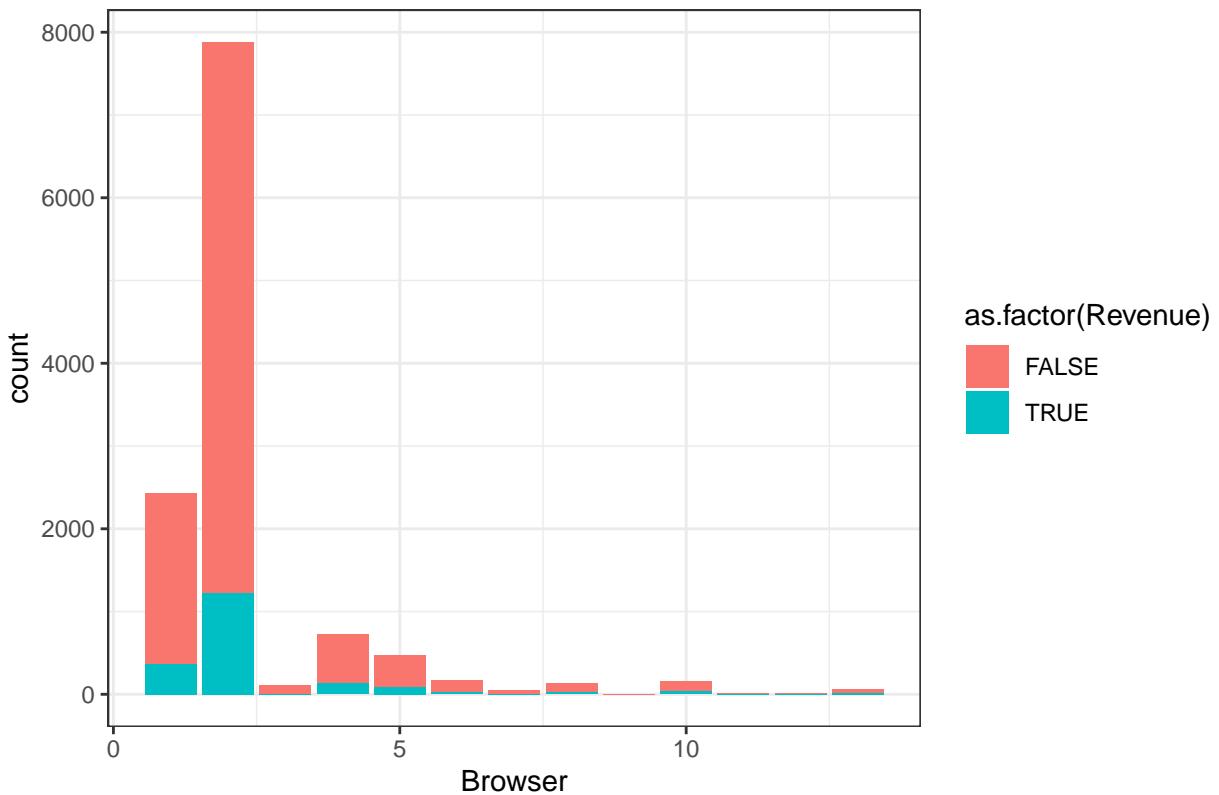
Despite having a lot of users, Operating system 2 generated the least revenue compared to OS 1,3 and 4, which however also did not generate much revenue.

Revenue vs. Browser

```
# we will use stacked bargraphs to show the distribution of
# revenue depending on Browser
# we will have the distribution of the browser on the x axis and
# the revenue column as fill

ggplot(data= ecom2)+geom_bar(aes(x=Browser, fill=as.factor(Revenue)))+
  ggtitle(label="Revenue dist. on Browser")+
  theme_bw() # picks a color theme
```

Revenue dist. on Browser



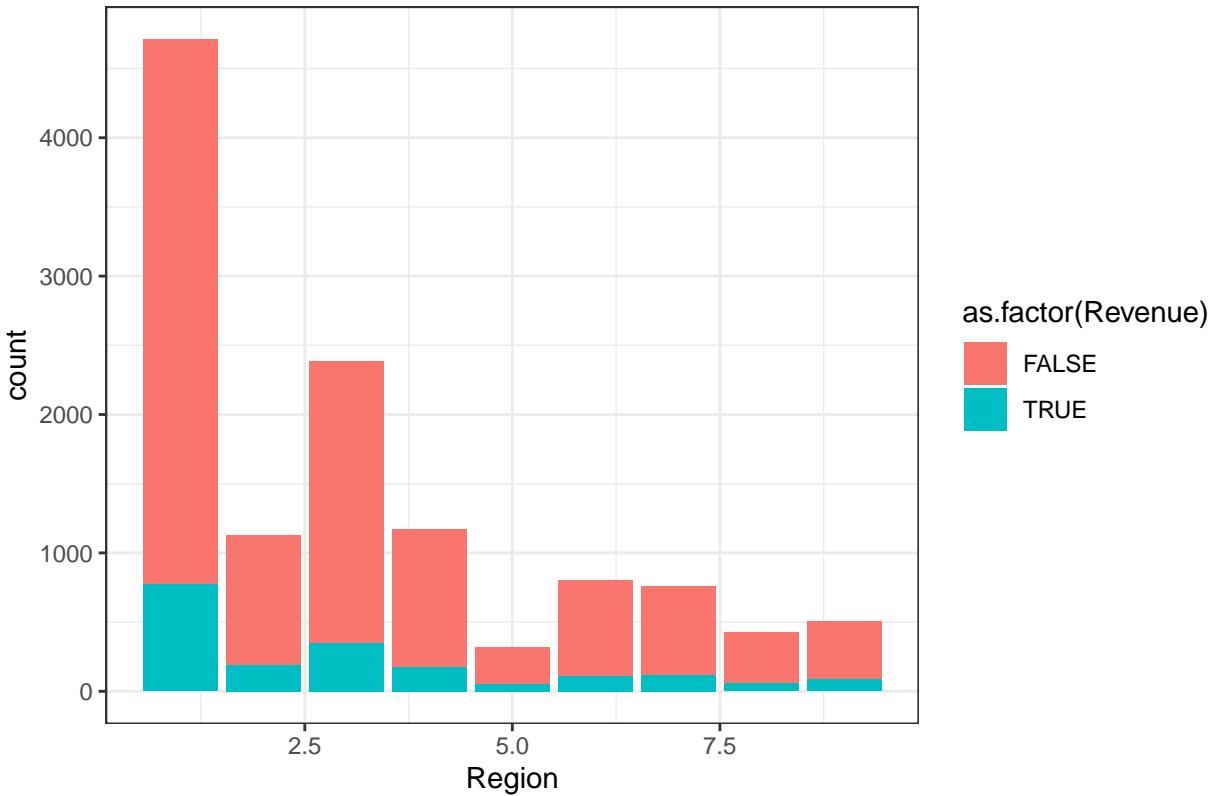
The type of browser did not have any significant impact on the amount of Revenue collected . Browser no.2 had a lot of users but generated the least revenue.

Revenue vs. Region

```
# we will use stacked bargraphs to show the distribution of
# revenue on different regions
# we will have the distribution of the revenue on the x axis and
# the region column as fill

ggplot(data= ecom2)+geom_bar(aes(x=Region, fill=as.factor(Revenue)))+
  ggtitle(label="Revenue vs. Region")+
  theme_bw() # picks a color theme
```

Revenue vs. Region

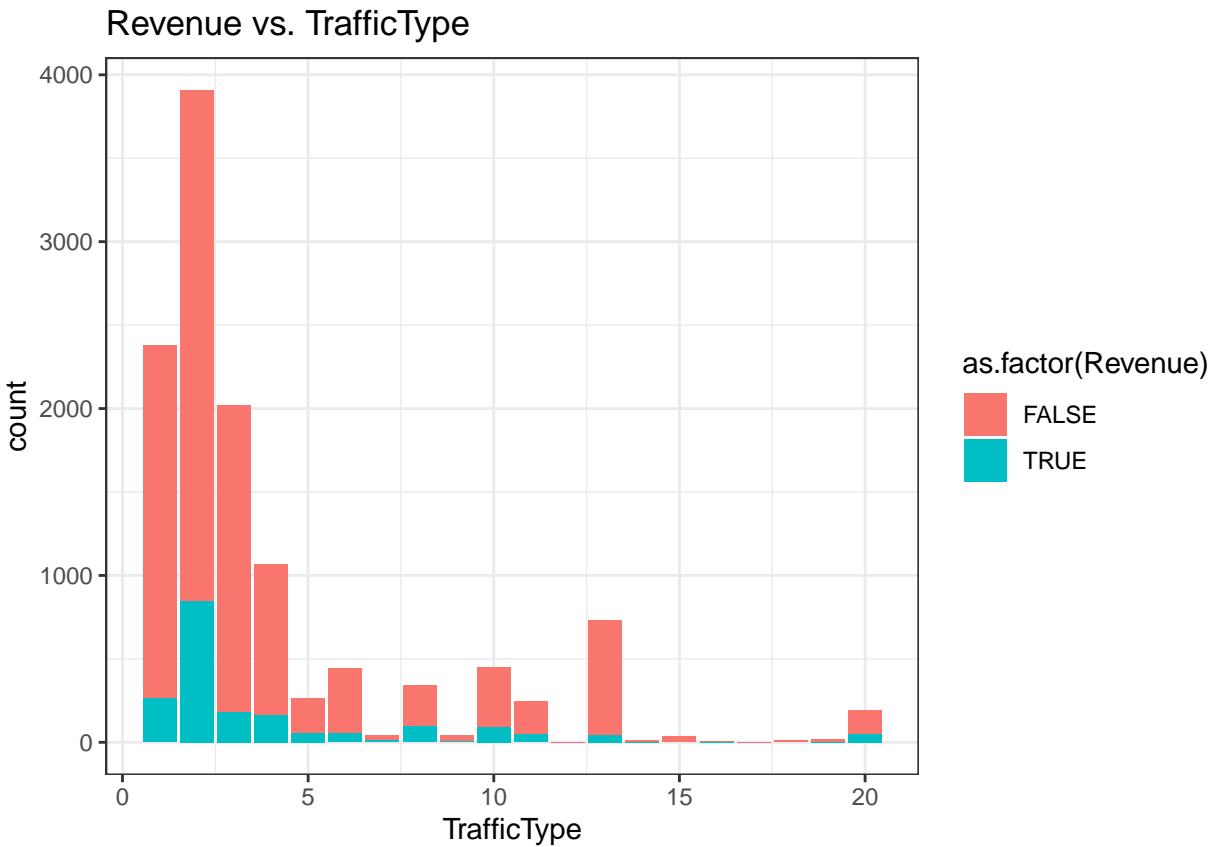


Less revenue is collected in regions 1, 3, 4, 2, 6, 7 in descending order.

Revenue vs. Traffic Type

```
# we will use stacked bargraphs to show the distribution of
# revenue on different months
# we will have the distribution of the TrafficType on the x axis and
# the revenue column as fill

ggplot(data= ecom2)+geom_bar(aes(x=TrafficType, fill=as.factor(Revenue)))+
  ggtitle(label="Revenue vs. TrafficType")+
  theme_bw() # picks a color theme
```

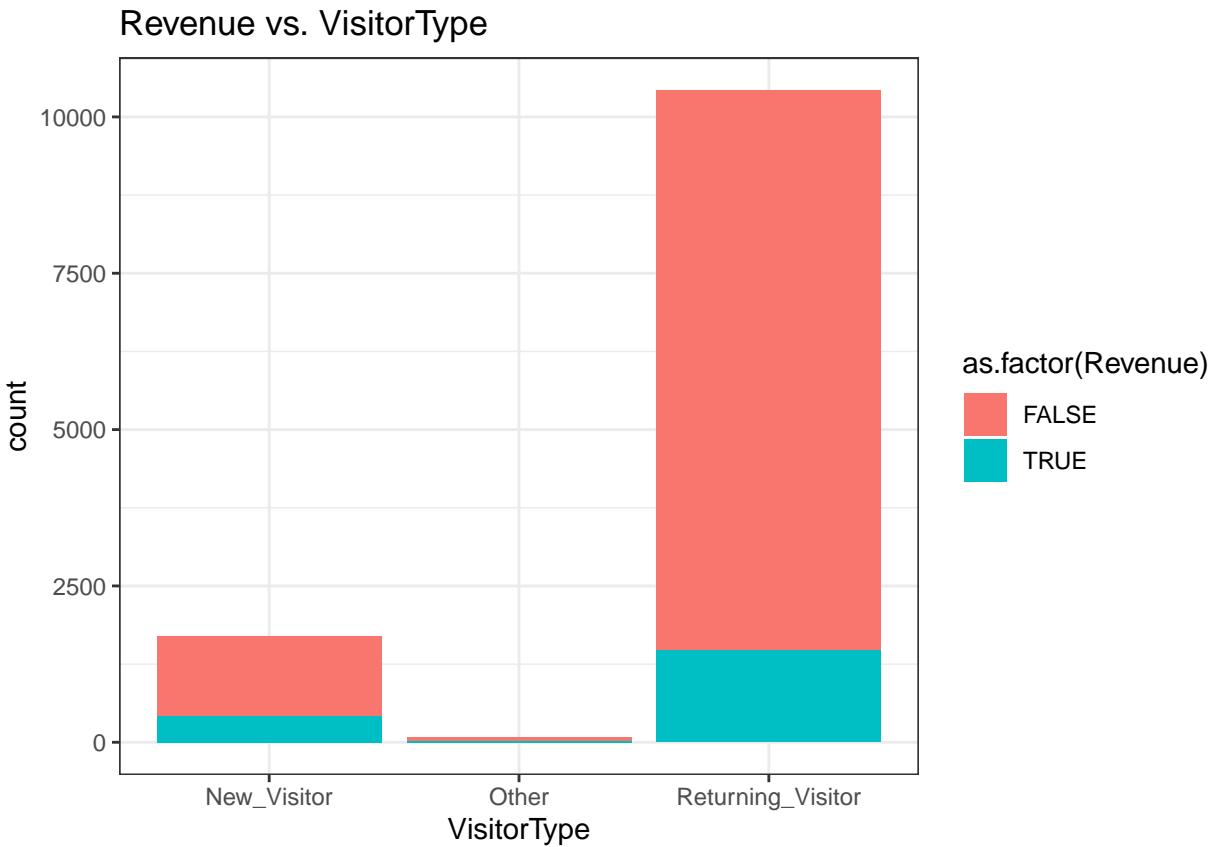


The type of traffic slightly contributed to the amount of revenue generated. However, Revenue generation was still on the low. Traffic type 2 generated a slightly high amount of revenue

Revenue vs. Visitor Type

```
# we will use stacked bargraphs to show the distribution of
# revenue on different types of visitors
# we will have the distribution of the revenue on the x axis and
# the visitor type column as fill

ggplot(data= ecom2)+geom_bar(aes(x=VisitorType, fill=as.factor(Revenue)))+
  ggtitle(label="Revenue vs. VisitorType")+
  theme_bw() # picks a color theme
```



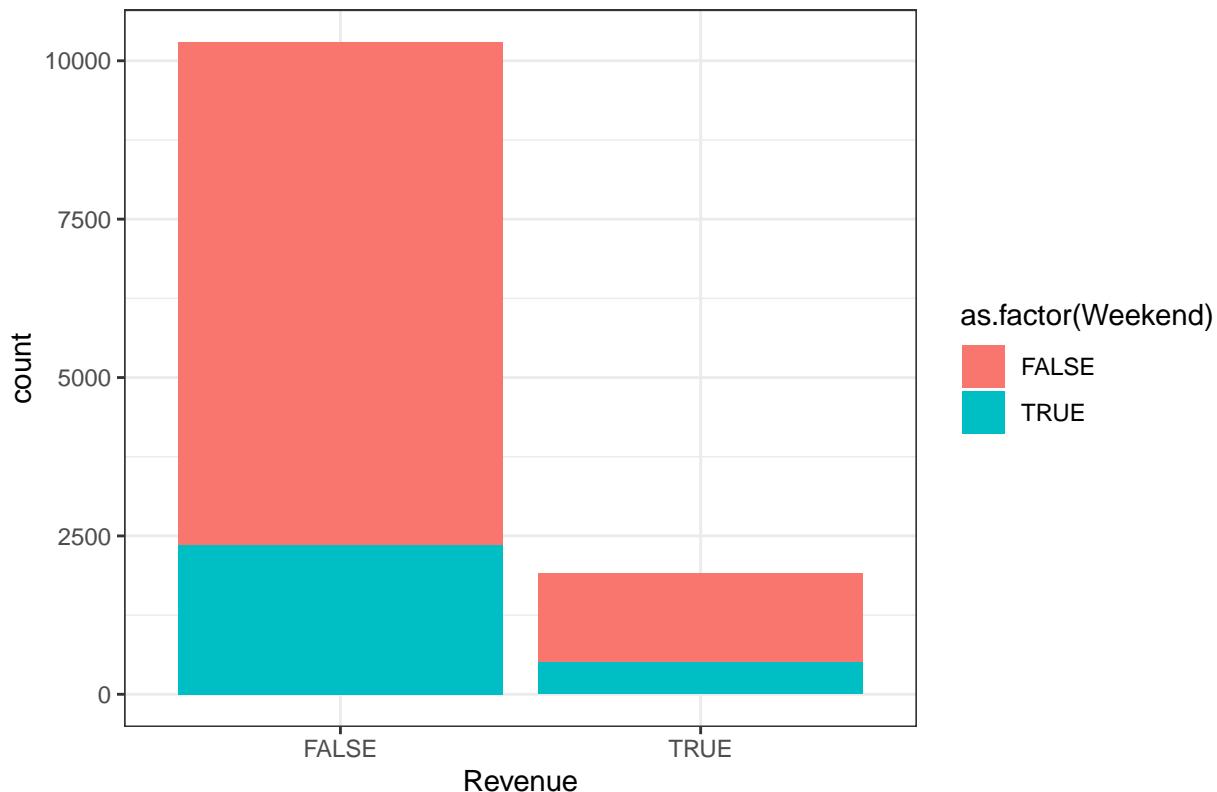
Despite having so many returning visitors, they did not contribute to revenue generation. The same observation is seen for visitors on the pages.

Revenue vs. Weekends

```
# we will use stacked bargraphs to show the distribution of
# revenue on weekends
# we will have the distribution of the revenue on the x axis and
# the weekend column as fill

ggplot(data= ecom2)+geom_bar(aes(x=Revenue, fill=as.factor(Weekend)))+
  ggtitle(label="Revenue dist. on Weekends")+
  theme_bw() # picks a color theme
```

Revenue dist. on Weekends



There was less revenue generated on weekends.

Numerical vs. Categorical

```
colnames(ecom2)
```

```
## [1] "Administrative"          "Administrative_Duration"  
## [3] "Informational"           "Informational_Duration"  
## [5] "ProductRelated"          "ProductRelated_Duration"  
## [7] "BounceRates"              "ExitRates"  
## [9] "PageValues"               "SpecialDay"  
## [11] "Month"                    "OperatingSystems"  
## [13] "Browser"                  "Region"  
## [15] "TrafficType"              "VisitorType"  
## [17] "Weekend"                  "Revenue"
```

Contingency plots

Revenue vs. Administrative

```
# Target columns  
Administrative <- ecom2$Administrative  
Revenue <- ecom2$Revenue  
  
# Contingency table
```

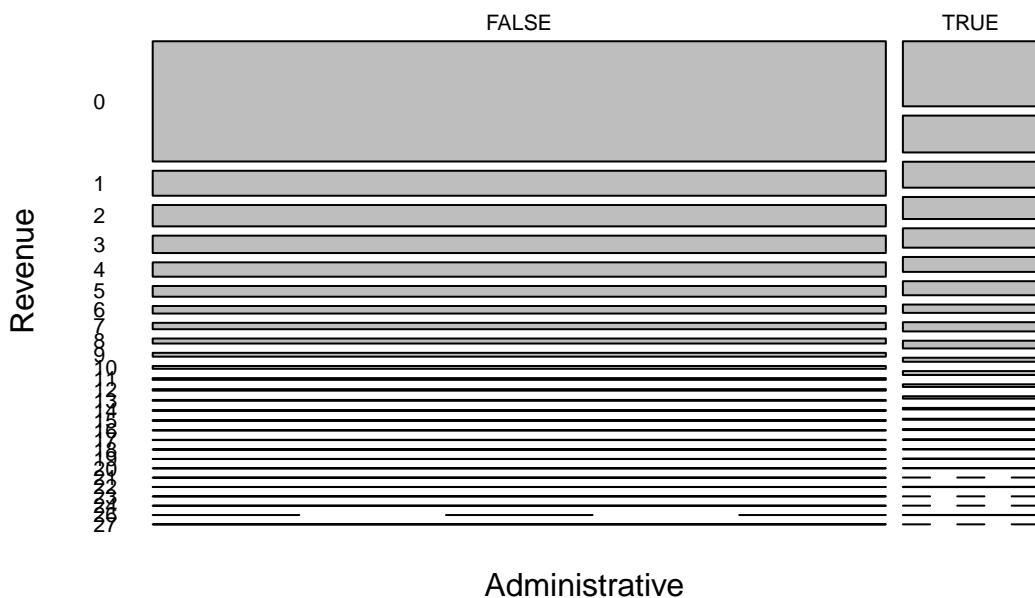
```
contingency.table <- table(Revenue, Administrative)
contingency.table
```

```
##          Administrative
## Revenue    0     1     2     3     4     5     6     7     8     9     10    11    12    13
## FALSE   5123 1063  909  741  612  457  321  272  214  164  121  74  65  37
## TRUE    514   291  205  174  153  118  111  66   73   61   32   31   21   19
##          Administrative
## Revenue    14    15    16    17    18    19    20    21    22    23    24    26    27
## FALSE    32    30    16    12    10     5     1     2     2     3     4     0     1
## TRUE     12     8     8     4     2     1     1     0     2     0     0     1     0
```

plotting

```
# plotting the contingency table
mosaicplot(contingency.table, xlab='Administrative', ylab='Revenue',
           main='Revenue vs. Administrative', color = "grey", las = 1)
```

Revenue vs. Administrative



The administrative page did not generate much revenue.

Revenue vs. Informational

```
# Target columns
Informational <- ecom2$Informational
Revenue <- ecom2$Revenue
```

```

# Contingency table
contingency.table <- table(Revenue, Informational)
contingency.table

##          Informational
## Revenue    0   1   2   3   4   5   6   7   8   9   10  11  12  13
##   FALSE  8274  805  573  287  160  68  61  30  10  9   5   1   3   1
##   TRUE   1295  236  154   93   62  31  17   6   4   6   2   0   2   0
##          Informational
## Revenue    14   16   24
##   FALSE     2     1     1
##   TRUE      0     0     0

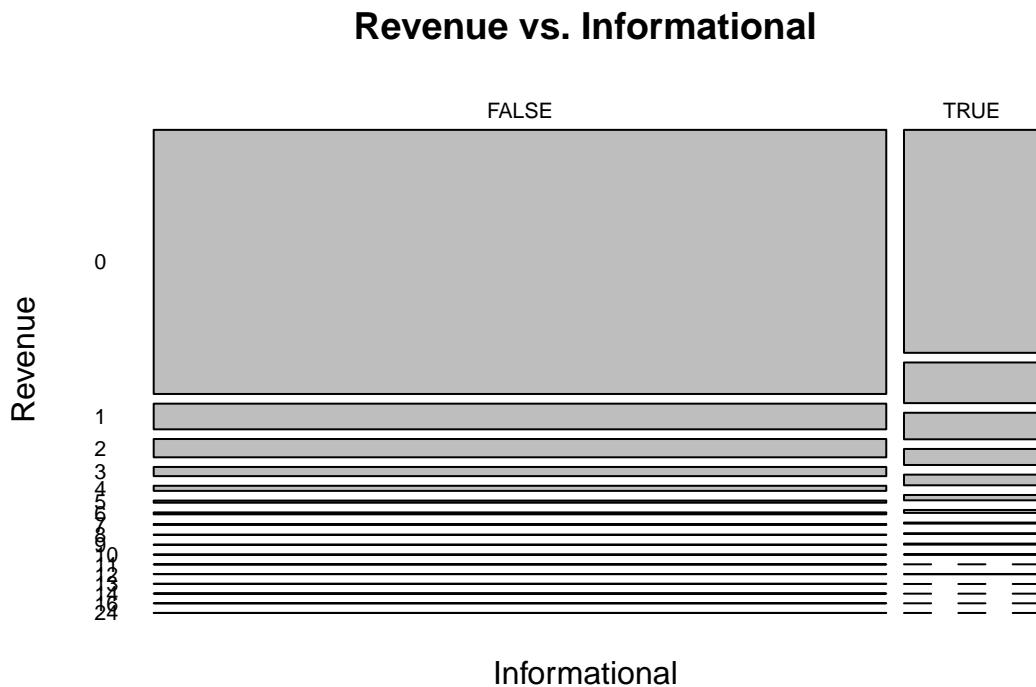
```

plotting

```

# plotting the contingency table
mosaicplot(contingency.table, xlab='Informational', ylab='Revenue',
            main='Revenue vs. Informational', color = "grey", las = 1)

```



The Informational page generated way less revenue compared to the administrative page.

Revenue vs. Product Related

```

# Target columns
ProductRelated <- ecom2$ProductRelated
Revenue <- ecom2$Revenue

```

```

# Contingency table
contingency.table <- table(Revenue, ProductRelated)
contingency.table

##          ProductRelated
## Revenue  0   1   2   3   4   5   6   7   8   9   10  11  12  13  14  15  16  17
## FALSE   29 501 434 431 382 360 371 356 328 283 280 272 273 244 208 230 222 186
## TRUE    6  13  20  25  18  20  24  35  42  34  50  36  40  45  43  40  38  40
##          ProductRelated
## Revenue 18  19  20  21  22  23  24  25  26  27  28  29  30  31  32  33  34  35
## FALSE  171 176 186 157 169 147 157 132 126 141 115 107 105 102 84  97  82  82
## TRUE   29  42  39  42  44  33  35  22  29  36  29  28  37  26  35  24  21  19
##          ProductRelated
## Revenue 36  37  38  39  40  41  42  43  44  45  46  47  48  49  50  51  52  53
## FALSE  97  92  72  90  61  69  62  59  54  56  56  46  48  48  47  41  42  46
## TRUE   13  26  17  19  10  16  15  14  15  15  12  10  14  12  17  11  8  14
##          ProductRelated
## Revenue 54  55  56  57  58  59  60  61  62  63  64  65  66  67  68  69  70  71
## FALSE  36  39  33  34  31  37  32  35  37  29  26  29  30  24  28  22  21  27
## TRUE   10  6   11  13  10  11  10  5   9   10  10  4   8   6   4   8   8   6
##          ProductRelated
## Revenue 72  73  74  75  76  77  78  79  80  81  82  83  84  85  86  87  88  89
## FALSE  23  19  21  10  14  18  11  25  17  25  15  13  16  21  12  12  13  16
## TRUE   4   5   4   7   4   6   1   6   8   12  8   8   4   7   2   3   2   6
##          ProductRelated
## Revenue 90  91  92  93  94  95  96  97  98  99  100 101 102 103 104 105 106 107
## FALSE  14  17  7   15  16  12  12  14  14  6   7   8   10  12  9   6   9   8
## TRUE   3   1   3   5   2   7   3   1   5   3   3   6   1   0   3   0   5   5
##          ProductRelated
## Revenue 108 109 110 111 112 113 114 115 116 117 118 119 120 121 122 123 124 125
## FALSE  9   8   7   13  6   10  8   6   7   6   5   4   5   4   8   3   4   7
## TRUE   4   5   2   4   1   2   4   5   4   2   5   1   4   0   4   1   3   3
##          ProductRelated
## Revenue 126 127 128 129 130 131 132 133 134 135 136 137 138 139 140 141 142 143
## FALSE  6   5   7   7   8   9   4   6   4   4   3   6   3   4   6   8   2   4
## TRUE   1   2   0   3   2   4   5   2   1   0   1   5   1   1   1   0   1   0
##          ProductRelated
## Revenue 144 145 146 147 148 149 150 151 152 153 154 155 156 157 158 159 160 161
## FALSE  2   2   4   1   3   4   5   5   4   2   9   1   3   3   1   5   2   1
## TRUE   1   4   2   2   1   3   1   0   4   1   2   4   1   2   0   2   1   3
##          ProductRelated
## Revenue 162 163 164 165 166 167 168 169 170 171 172 173 174 175 176 177 178 179
## FALSE  5   0   2   0   1   2   2   2   2   2   3   1   2   1   2   1   1   4
## TRUE   3   1   2   1   1   2   0   0   1   5   1   1   1   2   2   0   2   0
##          ProductRelated
## Revenue 180 181 182 183 184 186 187 188 189 190 191 192 193 194 195 197 198 199
## FALSE  2   3   2   0   2   2   3   2   2   2   1   1   2   1   2   1   1   1
## TRUE   0   0   1   1   0   1   0   0   1   0   0   0   1   1   1   1   1   1
##          ProductRelated
## Revenue 200 202 204 205 206 207 210 211 213 216 217 218 219 220 221 222 223 224
## FALSE  2   1   2   1   2   1   1   1   2   1   1   0   1   2   1   4   1   0
## TRUE   2   2   0   0   0   0   0   0   0   2   1   0   1   1   0   2   0   2
##          ProductRelated

```

```

## Revenue 225 226 227 229 230 231 232 233 234 235 237 238 240 241 243 245 246 247
## FALSE 0 0 3 2 3 2 0 0 0 0 1 1 0 1 0 1 1 1
## TRUE 1 1 0 1 0 0 1 1 1 1 2 1 1 0 1 1 0 0
##          ProductRelated
## Revenue 248 250 251 254 255 256 258 260 261 262 264 266 271 272 274 275 276 279
## FALSE 0 0 1 1 1 1 2 0 0 1 1 1 1 1 1 1 1 0 1
## TRUE 1 1 0 0 0 0 1 1 1 0 0 0 0 0 0 0 0 1 0
##          ProductRelated
## Revenue 280 281 282 283 286 287 290 291 292 293 304 305 309 310 311 312 313 315
## FALSE 2 1 1 1 0 1 1 1 1 0 0 1 0 1 1 1 1 1 1
## TRUE 0 0 0 0 1 0 0 0 0 1 1 0 1 1 1 0 0 0 0
##          ProductRelated
## Revenue 318 324 326 328 330 336 337 338 339 340 343 346 349 351 357 358 359 362
## FALSE 0 0 0 1 0 0 2 0 1 1 1 0 1 1 0 1 0 1 1
## TRUE 1 1 1 0 1 2 0 1 0 0 0 1 0 0 1 0 1 0 0
##          ProductRelated
## Revenue 374 377 378 385 391 397 401 409 414 423 429 439 440 449 470 486 501 517
## FALSE 1 1 1 1 1 0 0 1 1 1 1 1 1 1 1 0 1 0 0
## TRUE 0 0 0 0 0 1 2 0 0 0 0 0 1 0 0 1 0 1 1
##          ProductRelated
## Revenue 518 534 584 686 705
## FALSE 1 0 1 1 1
## TRUE 0 1 0 0 0

```

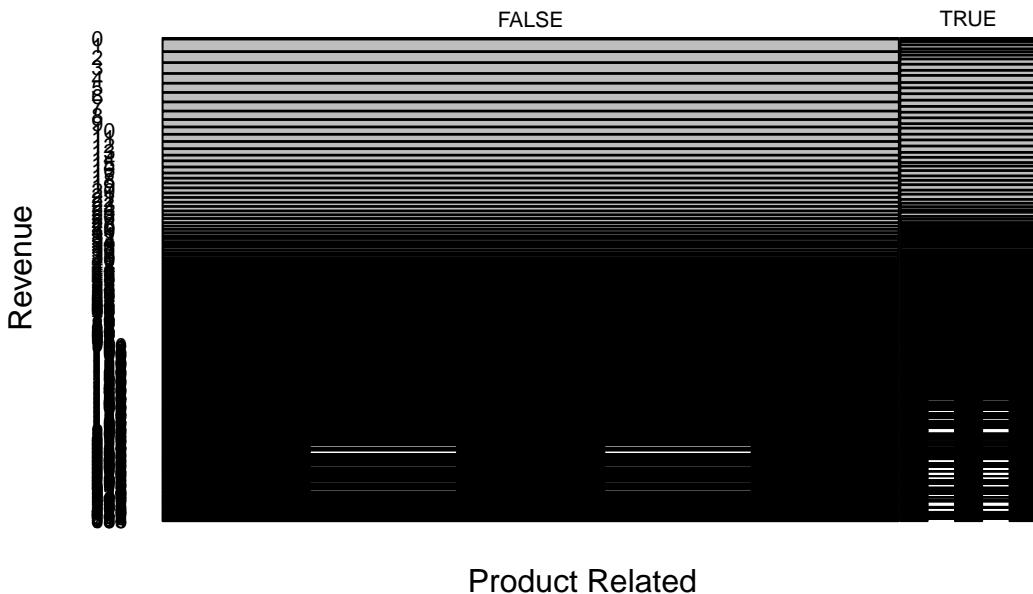
plotting

```

# plotting the contingency table
mosaicplot(contingency.table, xlab='Product Related', ylab='Revenue',
            main='Revenue vs. Product Related', color = "grey", las = 1)

```

Revenue vs. Product Related



There is no clear relationship between the product related and the revenue generated

Numerical vs. Numerical

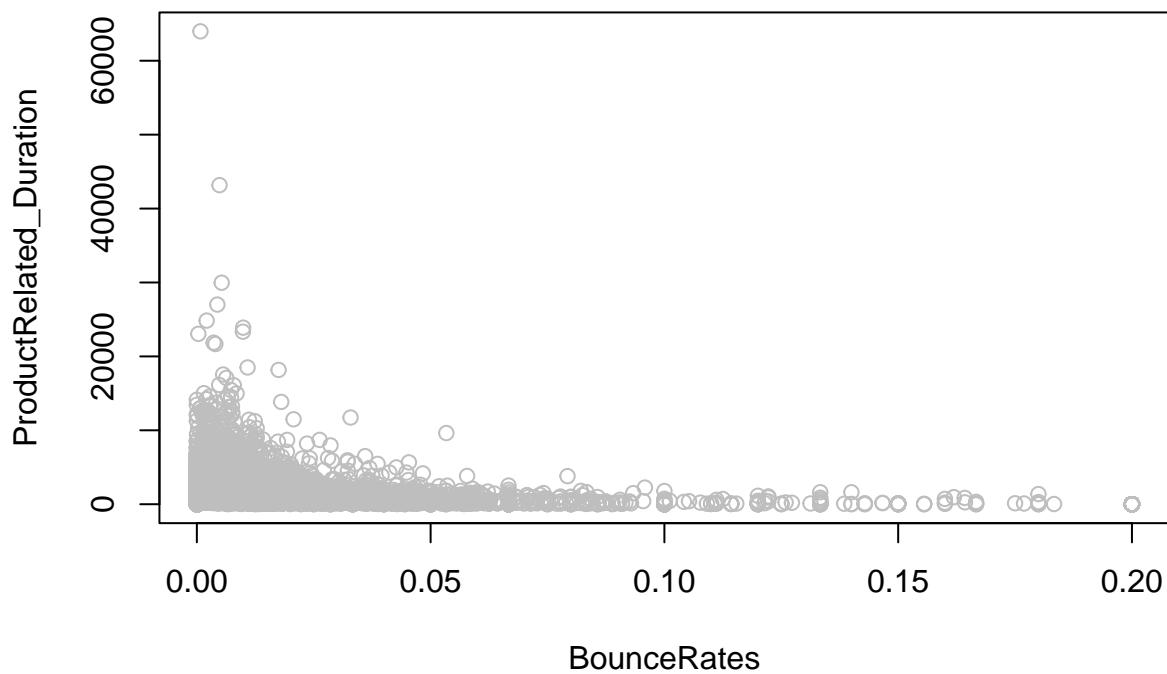
Scatter Plots

Bounce rates vs. Product Related Duration Scatter plots

```
# Plotting a scatter plot using the plot() method

plot(ProductRelated_Duration ~ BounceRates, dat = ecom2,
      col = "grey",
      main = "Bounce rates vs Product Related Duration Scatter Plot")
```

Bounce rates vs Product Related Duration Scatter Plot



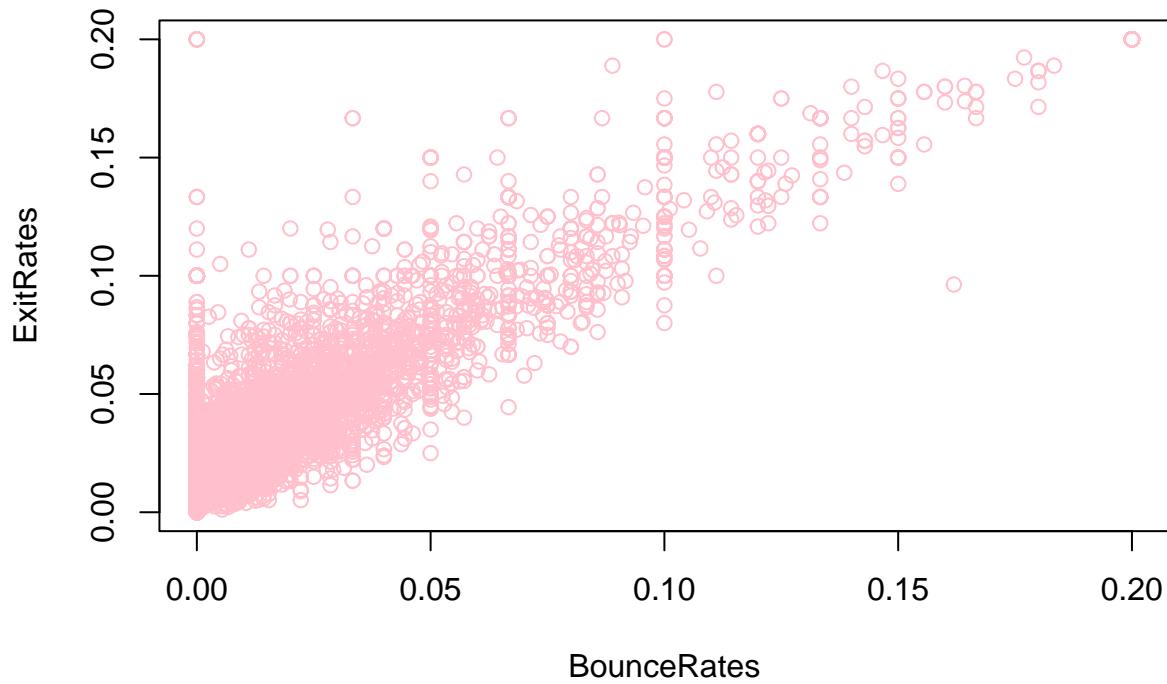
There is no relationship between bounce rates and time spent on product related pages.

Bounce rates vs. Exits rates scatter plot

```
# Plotting a scatter plot using the plot() method

plot(ExitRates ~ BounceRates, dat = ecom2,
      col = "pink",
      main = "Bounce vs Exit Rates Scatter Plot")
```

Bounce vs Exit Rates Scatter Plot



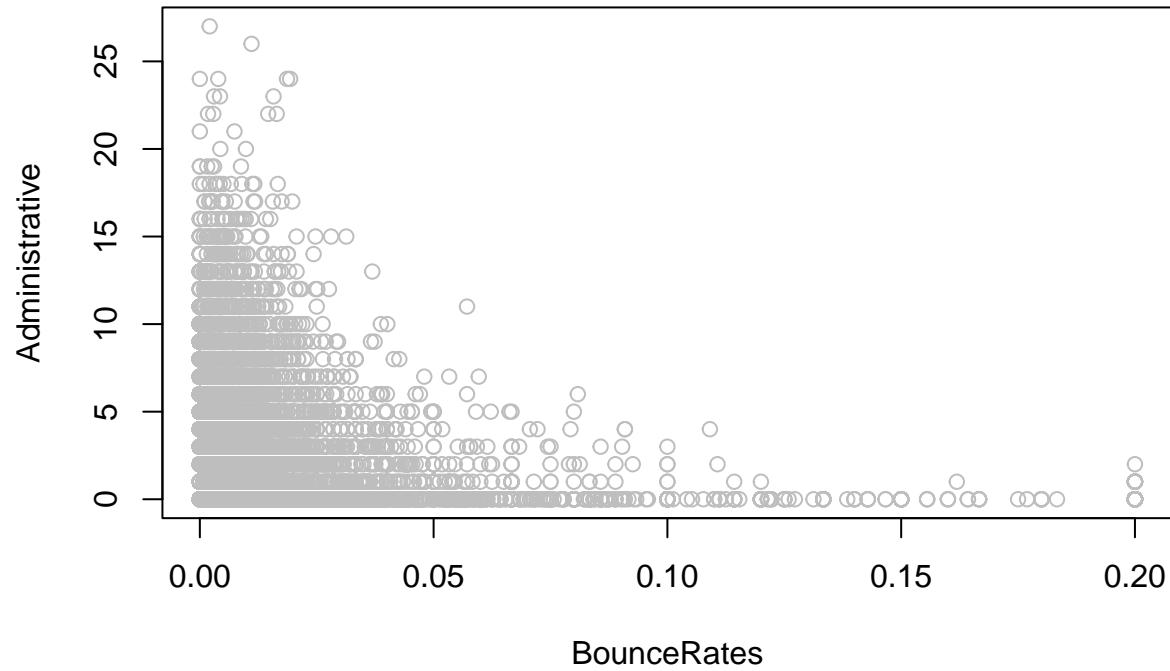
There is a positive linear relationship between bounce rates and exit rates. Meaning, when one increases the other increases and vice versa.

Administrative vs. bounce rates

```
# Plotting a scatter plot using the plot() method

plot(Administrative ~ BounceRates, dat = ecom2,
      col = "grey",
      main = "Bounce rates vs ProductRelated_Duration Scatter Plot")
```

Bounce rates vs ProductRelated_Duration Scatter Plot



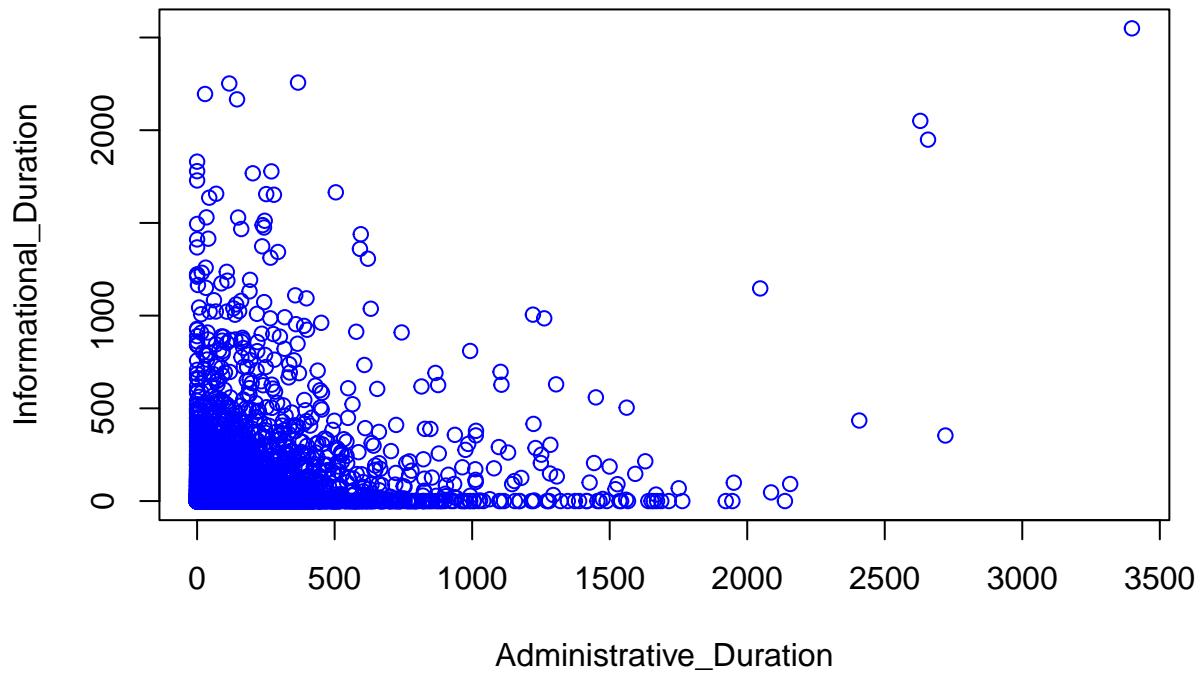
There is a negative polynomial relationship between bounce rates and administrative page. This means that when one increases the other one decreases exponentially.

Informational Duration vs. Administrative Duration

```
# Plotting a scatter plot using the plot() method

plot(Informational_Duration ~ Administrative_Duration, dat = ecom2,
     col = "blue",
     main = "Informational Duration vs Administrative Duration Scatter Plot")
```

Informational Duration vs Administrative Duration Scatter Plot



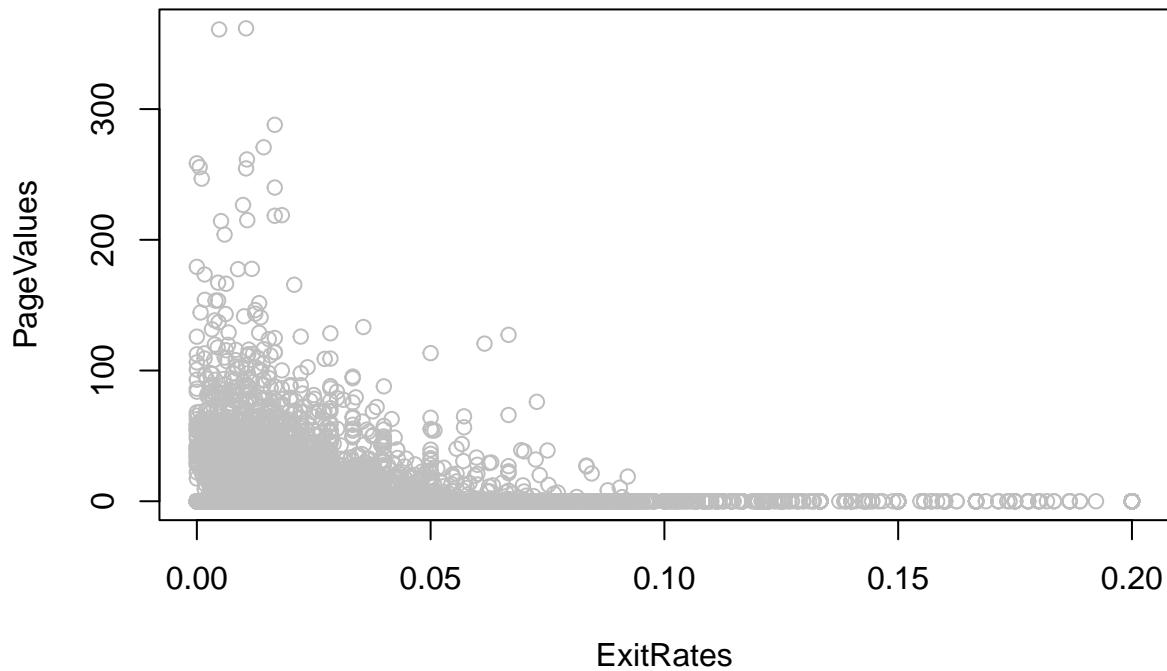
There is a negative polynomial relationship between the time people spent on information pages that spent on the administrative page. This means that when one increases the other one decreases exponentially.

Page Values vs. Exit Rates

```
# Plotting a scatter plot using the plot() method

plot(PageValues ~ ExitRates, dat = ecom2,
     col = "grey",
     main = "Page Values vs. Exit Rates
Scatter Plot")
```

Page Values vs. Exit Rates Scatter Plot



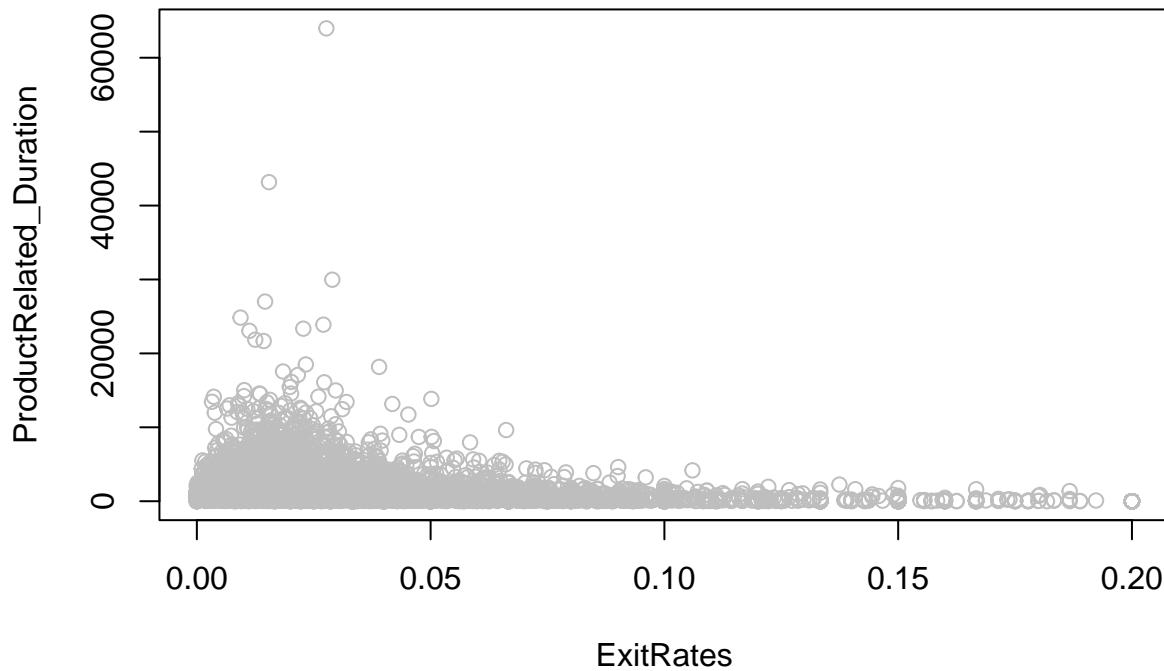
There is a negative polynomial relationship between exit rates and page values.

Exit Rates vs Product Related Duration

```
# Plotting a scatter plot using the plot() method

plot(ProductRelated_Duration ~ ExitRates, dat = ecom2,
     col = "grey",
     main = "Exit Rates vs Product Related Duration Scatter Plot")
```

Exit Rates vs Product Related Duration Scatter Plot



There is no relationship between the exit rate and product related duration.

Multivariate Graphical Analysis

```
colnames(ecom2.numeric)
```

```
## [1] "Administrative"          "Administrative_Duration"  
## [3] "Informational"           "Informational_Duration"  
## [5] "ProductRelated"          "ProductRelated_Duration"  
## [7] "BounceRates"              "ExitRates"  
## [9] "PageValues"                "SpecialDay"  
## [11] "OperatingSystems"         "Browser"  
## [13] "Region"                   "TrafficType"
```

Creating a numerical dataframe without categorical variables

```
# create a subset from the numeric dataframe we  
# have been using  
  
num_multi <- ecom2.numeric [c("Administrative", "Administrative_Duration", "Informational", "Informational_Duration", "ProductRelated", "ProductRelated_Duration", "BounceRates", "ExitRates", "PageValues", "SpecialDay", "OperatingSystems", "Browser", "Region", "TrafficType")]  
  
# preview  
head(num_multi)
```

```

##   Administrative Administrative_Duration Informational Informational_Duration
## 1          0                  0          0                  0
## 2          0                  0          0                  0
## 3          0                 -1          0                 -1
## 4          0                  0          0                  0
## 5          0                  0          0                  0
## 6          0                  0          0                  0
##   ProductRelated ProductRelated_Duration BounceRates ExitRates PageValues
## 1              1           0.0000000  0.2000000  0.2000000      0
## 2              2           64.0000000 0.00000000 0.1000000      0
## 3              1          -1.0000000  0.20000000 0.2000000      0
## 4              2           2.6666667  0.05000000 0.1400000      0
## 5             10           627.500000  0.02000000 0.0500000      0
## 6             19           154.216667  0.01578947 0.0245614      0

```

Plotting a correlation matrix

```

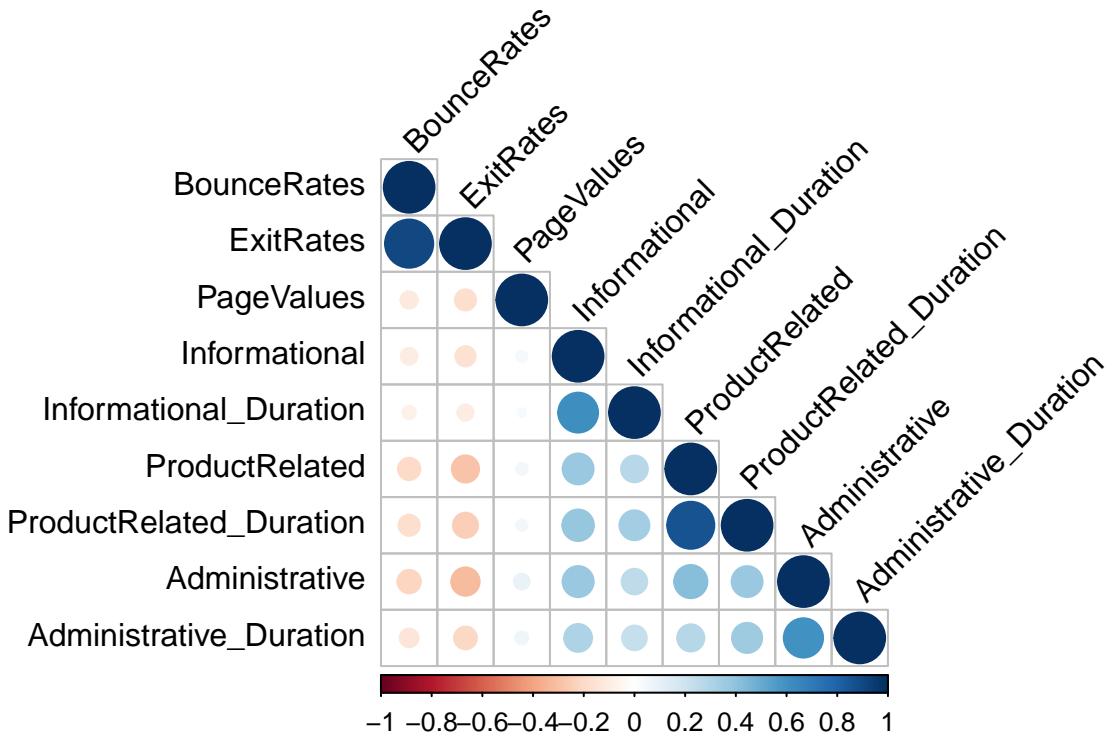
# calculate correlations
correlations <- cor(num_multi)

# Plotting
library(corrplot)

## corrplot 0.92 loaded

corrplot(correlations, type = "lower", order = "hclust",
         tl.col = "black", tl.srt = 45)

```



Plotting a pair plot

```

library(ggplot2)
library(tidyverse)
library(caret)
library(caretEnsemble)

## 
## Attaching package: 'caretEnsemble'

## The following object is masked from 'package:ggplot2':
## 
##     autoplot

library(psych)

## 
## Attaching package: 'psych'

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

```

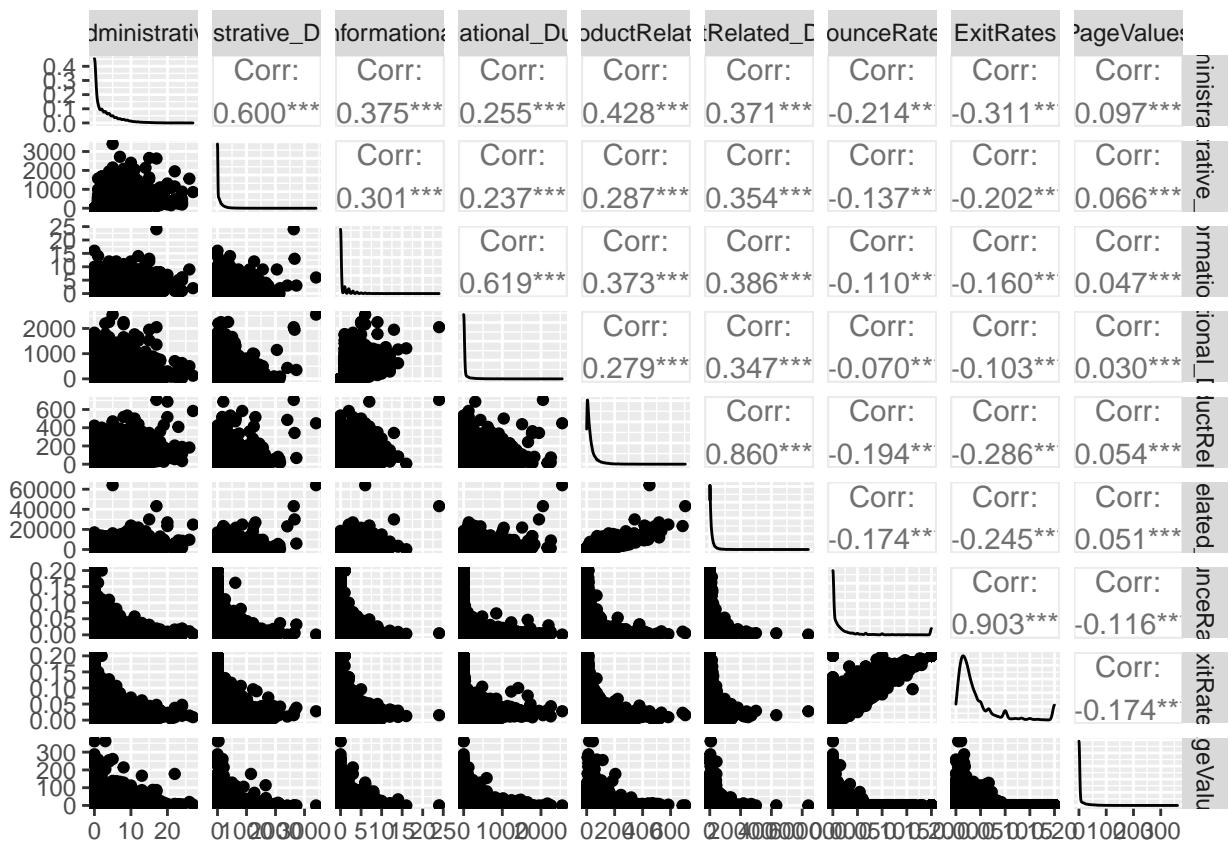
```

library(purrr)
library(GGally)

## Registered S3 method overwritten by 'GGally':
##   method from
##   +.gg   ggplot2

# plotting variables side by side
ggpairs(num_multi)

```



Exit Rates vs. Bounce Rates by Month

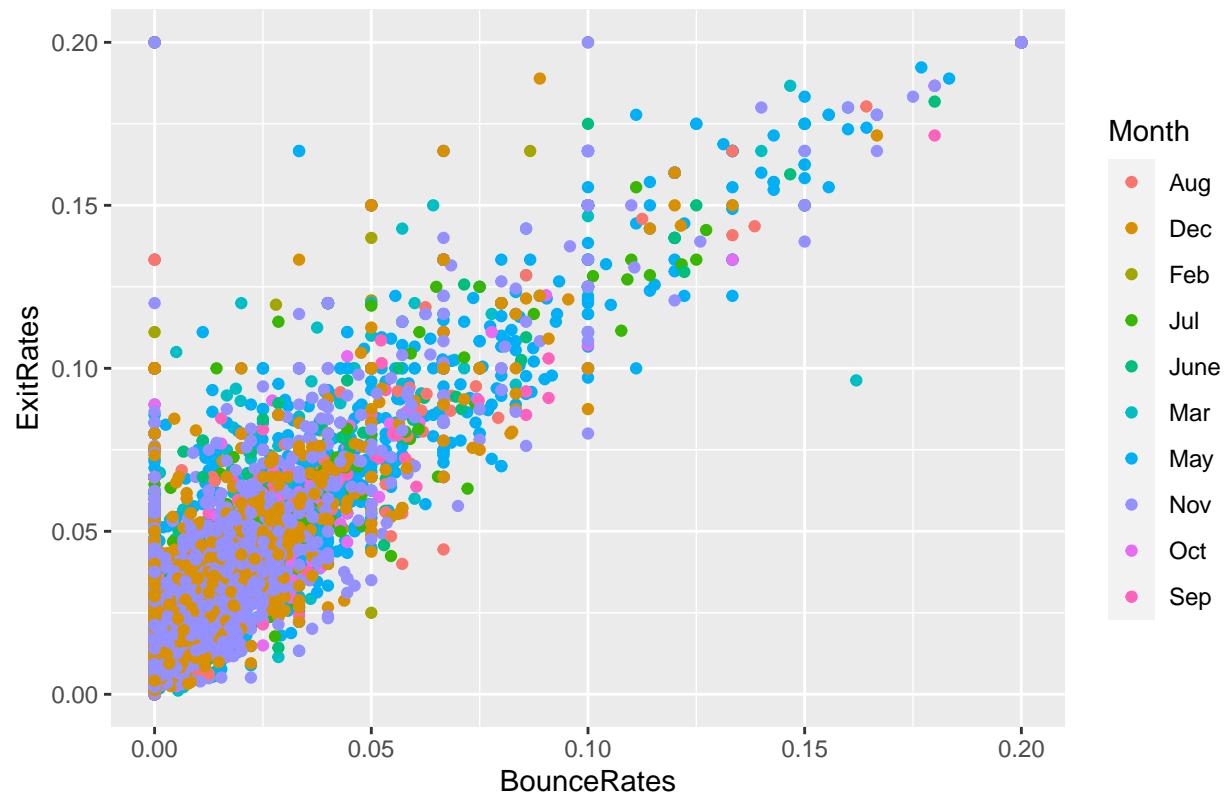
```

# Scatter Plot using ggplots to find realtionship between two variables
# and their association with a categorical variable

ggplot(num_multi, aes(x=BounceRates, y=ExitRates, color= Month)) +
  geom_point()+
  labs(title = "Exit Rates vs Bounce Rates By Month Scatter Plot")

```

Exit Rates vs Bounce Rates By Month Scatter Plot



There is a positive linear correlation between the bounce rates and exit rates with more action in the months of November and December

Exit Rates vs. Bounce Rates by Weekend

```
# Scatter Plot using ggplots to find realtionship between two variables
# and their association with a categorical variable

ggplot(num_multi, aes(x=BounceRates, y=ExitRates, shape= Weekend, color= Weekend)) +
  geom_point()+
  labs(title = "Bounce vs Exit Rates By Weekend/Weekday Scatter Plot")
```

Bounce vs Exit Rates By Weekend/Weekday Scatter Plot



The number of people that visited the site on weekends was not so different from that of those who did not visit.

Clustering

We will use k-NN and Hierarchical clustering techniques

K-Means Clustering

Preview columns names for the clean dataset

```
colnames(ecom2)
```

```
## [1] "Administrative"          "Administrative_Duration"
## [3] "Informational"           "Informational_Duration"
## [5] "ProductRelated"          "ProductRelated_Duration"
## [7] "BounceRates"              "ExitRates"
## [9] "PageValues"               "SpecialDay"
## [11] "Month"                    "OperatingSystems"
## [13] "Browser"                  "Region"
## [15] "TrafficType"              "VisitorType"
## [17] "Weekend"                  "Revenue"
```

Extracting Numerical variables from the data-frame, so as to get a numerical dataframe for modelling

```

# Extracting the numerical columns
eco_num <- ecom2[, 1:10]

#my_data %>% select(1:3)

#previewing
head(eco_num)

##   Administrative Administrative_Duration Informational Informational_Duration
## 1          0                  0          0          0
## 2          0                  0          0          0
## 3          0                 -1          0         -1
## 4          0                  0          0          0
## 5          0                  0          0          0
## 6          0                  0          0          0
##   ProductRelated ProductRelated_Duration BounceRates ExitRates PageValues
## 1          1                  0.000000  0.2000000  0.2000000      0
## 2          2                  64.000000 0.0000000  0.1000000      0
## 3          1                 -1.000000  0.2000000  0.2000000      0
## 4          2                  2.666667  0.0500000  0.1400000      0
## 5          10                 627.500000 0.0200000  0.0500000      0
## 6          19                 154.216667 0.01578947 0.0245614      0
##   SpecialDay
## 1          0
## 2          0
## 3          0
## 4          0
## 5          0
## 6          0

```

Confirming the data type

```

str(eco_num)

## 'data.frame': 12199 obs. of 10 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 0 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 ...
## $ ExitRates : num 0.2 0.1 0.2 0.14 0.05 ...
## $ PageValues : num 0 0 0 0 0 0 0 0 0 0 ...
## $ SpecialDay : num 0 0 0 0 0 0 0.4 0 0.8 0.4 ...

```

Scaling

```

# Using r inbuilt scale function
ecom_scaled <- scale(eco_num)

# previewing the head
head(ecom_scaled)

```

```

##   Administrative Administrative_Duration Informational Informational_Duration
## 1      -0.7025315      -0.4601081     -0.3988128      -0.2462725
## 2      -0.7025315      -0.4601081     -0.3988128      -0.2462725
## 3      -0.7025315      -0.4657410     -0.3988128      -0.2533417
## 4      -0.7025315      -0.4601081     -0.3988128      -0.2462725
## 5      -0.7025315      -0.4601081     -0.3988128      -0.2462725
## 6      -0.7025315      -0.4601081     -0.3988128      -0.2462725
##   ProductRelated ProductRelated_Duration  BounceRates ExitRates PageValues
## 1      -0.6963635      -0.6289343    3.954699721  3.4273070 -0.3190356
## 2      -0.6739424      -0.5955997   -0.450343788  1.2650121 -0.3190356
## 3      -0.6963635      -0.6294551    3.954699721  3.4273070 -0.3190356
## 4      -0.6739424      -0.6275453    0.650917089  2.1299300 -0.3190356
## 5      -0.4945739      -0.3020990   -0.009839437  0.1838646 -0.3190356
## 6      -0.2927843      -0.5486101   -0.102577188 -0.3661929 -0.3190356
##   SpecialDay
## 1 -0.3103105
## 2 -0.3103105
## 3 -0.3103105
## 4 -0.3103105
## 5 -0.3103105
## 6 -0.3103105

```

K-Means Clustering

```

# setting seed to any random integer
set.seed(123)

# creating 2 clusters
ecom_k2 <- kmeans(ecom_scaled, centers = 2, nstart = 25)

#previewing
#head(ecom_k2)

```

Visualizing

```

# Load Libraries
library(tidyverse)
library(readxl)
library(FactoMineR)
library(factoextra)

```

```

## Welcome! Want to learn more? See two factoextra-related books at https://goo.gl/ve3WBa

library(cluster)

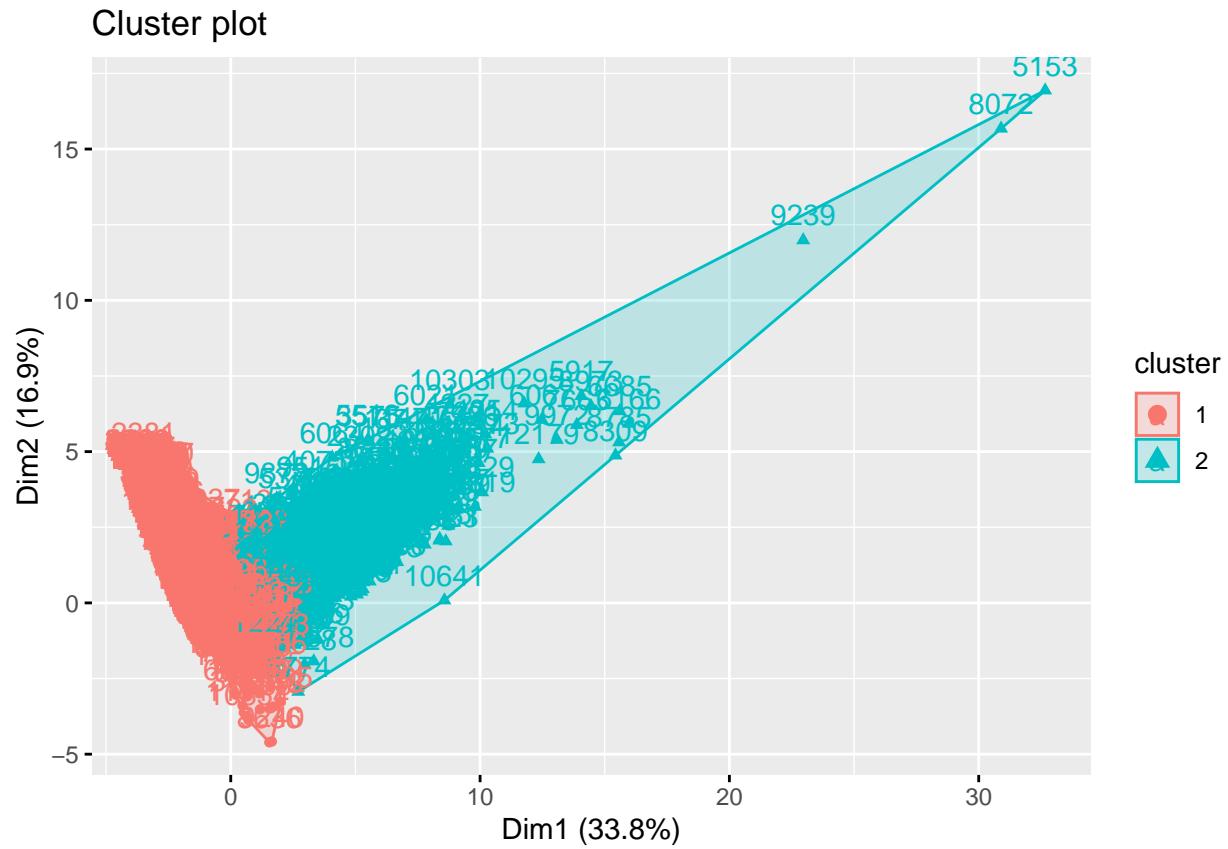
```

Plotting

```

# Visualizing our clusters
fviz_cluster(ecom_k2, data = ecom_scaled)

```



Computing model attributes

Cluster

```
# Clusters to which each point is associated  
ecom_k2$cluster
```

| | | | | | | | | | | | | | |
|----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| ## | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 |
| ## | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
| ## | 14 | 15 | 16 | 17 | 18 | 19 | 20 | 21 | 22 | 23 | 24 | 25 | 26 |
| ## | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 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 | 1 | 1 | 1 | 1 | 1 |
| ## | 53 | 54 | 55 | 56 | 57 | 58 | 59 | 60 | 61 | 62 | 63 | 64 | 65 |
| ## | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 2 | 1 | 1 |
| ## | 66 | 67 | 68 | 69 | 70 | 71 | 72 | 73 | 74 | 75 | 76 | 77 | 78 |
| ## | 1 | 2 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 2 | 1 |
| ## | 79 | 80 | 81 | 82 | 83 | 84 | 85 | 86 | 87 | 88 | 89 | 90 | 91 |
| ## | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
| ## | 92 | 93 | 94 | 95 | 96 | 97 | 98 | 99 | 100 | 101 | 102 | 103 | 104 |
| ## | 1 | 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 |
| ## | 1 | 1 | 1 | 1 | 1 | 2 | 1 | 1 | 1 | 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 | 1 | 1 | 1 | 1 | 1 |
| ## | 131 | 132 | 133 | 134 | 135 | 136 | 137 | 138 | 139 | 140 | 141 | 142 | 143 |
| ## | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
| ## | 144 | 145 | 146 | 147 | 148 | 149 | 150 | 151 | 152 | 153 | 154 | 155 | 156 |
| ## | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
| ## | 157 | 158 | 160 | 161 | 162 | 163 | 164 | 165 | 166 | 167 | 168 | 169 | 170 |
| ## | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
| ## | 171 | 172 | 173 | 174 | 175 | 176 | 177 | 178 | 180 | 181 | 182 | 183 | 184 |
| ## | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
| ## | 185 | 186 | 187 | 188 | 189 | 190 | 191 | 192 | 193 | 194 | 195 | 196 | 197 |
| ## | 2 | 1 | 1 | 2 | 2 | 1 | 1 | 2 | 1 | 1 | 1 | 1 | 1 |
| ## | 198 | 199 | 200 | 201 | 202 | 203 | 204 | 205 | 206 | 207 | 208 | 209 | 210 |
| ## | 1 | 1 | 2 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
| ## | 211 | 212 | 213 | 214 | 215 | 216 | 217 | 218 | 219 | 220 | 221 | 222 | 223 |
| ## | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
| ## | 224 | 225 | 226 | 227 | 228 | 229 | 230 | 231 | 232 | 233 | 234 | 235 | 236 |
| ## | 1 | 2 | 1 | 1 | 1 | 1 | 1 | 1 | 2 | 1 | 2 | 1 | 2 |
| ## | 237 | 238 | 239 | 240 | 241 | 242 | 243 | 244 | 245 | 246 | 247 | 248 | 249 |
| ## | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 2 | 1 | 1 | 1 | 1 | 2 |
| ## | 250 | 251 | 252 | 253 | 254 | 255 | 256 | 257 | 258 | 259 | 260 | 261 | 262 |
| ## | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 2 | 1 | 1 | 1 | 1 |
| ## | 263 | 264 | 265 | 266 | 267 | 268 | 269 | 270 | 271 | 272 | 273 | 274 | 275 |
| ## | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
| ## | 276 | 277 | 278 | 279 | 280 | 281 | 282 | 283 | 284 | 285 | 286 | 287 | 288 |
| ## | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 2 | 1 | 1 | 1 | 1 | 1 |
| ## | 289 | 290 | 291 | 292 | 293 | 294 | 295 | 296 | 297 | 298 | 299 | 300 | 301 |
| ## | 2 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
| ## | 302 | 303 | 304 | 305 | 306 | 307 | 308 | 309 | 310 | 311 | 312 | 313 | 314 |
| ## | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
| ## | 315 | 316 | 317 | 318 | 319 | 320 | 321 | 322 | 323 | 324 | 325 | 326 | 327 |
| ## | 2 | 2 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 2 | 1 | 1 |
| ## | 328 | 329 | 330 | 331 | 332 | 333 | 334 | 335 | 336 | 337 | 338 | 339 | 340 |
| ## | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 2 | 1 | 1 | 1 | 1 | 1 |
| ## | 341 | 342 | 343 | 344 | 345 | 346 | 347 | 348 | 349 | 350 | 351 | 352 | 353 |
| ## | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
| ## | 354 | 355 | 356 | 357 | 358 | 359 | 360 | 361 | 362 | 363 | 364 | 365 | 366 |
| ## | 2 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
| ## | 367 | 368 | 369 | 370 | 371 | 372 | 373 | 374 | 375 | 376 | 377 | 378 | 379 |
| ## | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 2 | 1 | 1 | 1 | 1 | 1 |
| ## | 380 | 381 | 382 | 383 | 384 | 385 | 386 | 387 | 388 | 389 | 390 | 391 | 392 |
| ## | 1 | 1 | 1 | 1 | 1 | 2 | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
| ## | 393 | 394 | 395 | 396 | 397 | 398 | 399 | 400 | 401 | 402 | 403 | 404 | 405 |
| ## | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 2 | 1 | 1 | 2 | 1 | 1 |
| ## | 406 | 407 | 408 | 409 | 410 | 411 | 412 | 413 | 414 | 415 | 416 | 417 | 418 |
| ## | 1 | 1 | 1 | 2 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
| ## | 420 | 421 | 422 | 423 | 424 | 425 | 426 | 427 | 428 | 429 | 430 | 431 | 432 |
| ## | 1 | 1 | 1 | 1 | 1 | 2 | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
| ## | 433 | 434 | 435 | 436 | 437 | 438 | 439 | 440 | 441 | 442 | 443 | 444 | 445 |
| ## | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
| ## | 446 | 447 | 448 | 449 | 450 | 451 | 452 | 453 | 454 | 455 | 456 | 458 | 459 |
| ## | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
| ## | 460 | 461 | 462 | 463 | 464 | 465 | 466 | 467 | 468 | 469 | 470 | 471 | 472 |
| ## | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 |

| | | | | | | | | | | | | | |
|----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| ## | 473 | 474 | 475 | 476 | 477 | 478 | 479 | 480 | 481 | 482 | 483 | 485 | 486 |
| ## | 1 | 1 | 1 | 1 | 1 | 2 | 2 | 1 | 1 | 1 | 1 | 1 | 1 |
| ## | 487 | 488 | 489 | 490 | 491 | 492 | 493 | 494 | 495 | 496 | 497 | 498 | 499 |
| ## | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 2 | 1 | 1 |
| ## | 500 | 501 | 502 | 503 | 504 | 505 | 506 | 507 | 508 | 509 | 510 | 511 | 512 |
| ## | 2 | 1 | 1 | 2 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 2 | 2 |
| ## | 514 | 515 | 516 | 517 | 518 | 519 | 520 | 521 | 522 | 523 | 524 | 525 | 526 |
| ## | 2 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
| ## | 527 | 528 | 529 | 530 | 531 | 532 | 533 | 534 | 535 | 536 | 537 | 538 | 539 |
| ## | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 2 | 1 | 1 |
| ## | 540 | 541 | 542 | 543 | 544 | 545 | 546 | 547 | 548 | 549 | 550 | 551 | 552 |
| ## | 1 | 1 | 1 | 1 | 1 | 2 | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
| ## | 553 | 554 | 556 | 557 | 558 | 559 | 560 | 561 | 562 | 563 | 564 | 565 | 566 |
| ## | 2 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
| ## | 567 | 568 | 569 | 570 | 571 | 572 | 573 | 574 | 575 | 576 | 577 | 578 | 579 |
| ## | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 2 | 2 | 1 | 1 | 1 |
| ## | 580 | 581 | 582 | 583 | 584 | 585 | 586 | 587 | 588 | 589 | 591 | 592 | 593 |
| ## | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
| ## | 594 | 595 | 596 | 597 | 598 | 599 | 600 | 601 | 602 | 603 | 604 | 605 | 606 |
| ## | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
| ## | 607 | 608 | 609 | 610 | 611 | 612 | 613 | 614 | 615 | 616 | 617 | 618 | 619 |
| ## | 1 | 1 | 1 | 1 | 2 | 2 | 2 | 1 | 1 | 1 | 1 | 1 | 2 |
| ## | 620 | 621 | 622 | 623 | 624 | 625 | 626 | 627 | 628 | 629 | 630 | 631 | 632 |
| ## | 2 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
| ## | 633 | 634 | 635 | 636 | 637 | 638 | 639 | 640 | 641 | 642 | 643 | 644 | 645 |
| ## | 1 | 1 | 1 | 2 | 1 | 1 | 1 | 1 | 1 | 2 | 1 | 1 | 1 |
| ## | 646 | 647 | 648 | 649 | 650 | 651 | 652 | 653 | 654 | 655 | 656 | 657 | 658 |
| ## | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
| ## | 659 | 661 | 662 | 663 | 664 | 665 | 666 | 667 | 668 | 669 | 670 | 671 | 672 |
| ## | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
| ## | 673 | 674 | 675 | 676 | 677 | 678 | 679 | 680 | 681 | 682 | 683 | 684 | 685 |
| ## | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
| ## | 686 | 687 | 688 | 689 | 690 | 691 | 692 | 693 | 694 | 695 | 696 | 697 | 698 |
| ## | 1 | 1 | 1 | 1 | 2 | 1 | 1 | 1 | 1 | 2 | 1 | 2 | 1 |
| ## | 699 | 700 | 701 | 702 | 703 | 704 | 705 | 706 | 707 | 708 | 709 | 710 | 711 |
| ## | 2 | 1 | 1 | 1 | 1 | 1 | 2 | 1 | 1 | 1 | 1 | 1 | 1 |
| ## | 712 | 713 | 714 | 715 | 716 | 717 | 718 | 719 | 720 | 721 | 722 | 723 | 724 |
| ## | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 2 | 1 |
| ## | 725 | 726 | 727 | 728 | 729 | 730 | 731 | 732 | 733 | 734 | 735 | 736 | 737 |
| ## | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
| ## | 738 | 739 | 740 | 741 | 742 | 743 | 744 | 745 | 746 | 747 | 748 | 749 | 750 |
| ## | 1 | 1 | 1 | 2 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
| ## | 751 | 752 | 753 | 754 | 755 | 756 | 757 | 758 | 759 | 760 | 761 | 762 | 763 |
| ## | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 2 | 1 | 1 |
| ## | 764 | 765 | 766 | 767 | 768 | 769 | 770 | 771 | 772 | 773 | 774 | 776 | 777 |
| ## | 1 | 1 | 1 | 1 | 1 | 1 | 2 | 1 | 1 | 2 | 1 | 1 | 1 |
| ## | 778 | 779 | 780 | 781 | 782 | 783 | 784 | 785 | 786 | 787 | 788 | 789 | 790 |
| ## | 2 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
| ## | 791 | 792 | 793 | 794 | 795 | 796 | 797 | 798 | 799 | 800 | 801 | 802 | 803 |
| ## | 1 | 1 | 1 | 1 | 1 | 1 | 2 | 1 | 1 | 2 | 1 | 1 | 1 |
| ## | 804 | 805 | 806 | 807 | 808 | 809 | 810 | 811 | 812 | 813 | 814 | 815 | 816 |
| ## | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 2 | 1 | 1 | 1 | 1 | 1 |
| ## | 817 | 818 | 819 | 820 | 821 | 822 | 823 | 824 | 825 | 826 | 827 | 828 | 829 |
| ## | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 2 |

| | | | | | | | | | | | | | |
|----|------|------|------|------|------|------|------|------|------|------|------|------|------|
| ## | 830 | 831 | 832 | 833 | 834 | 835 | 836 | 837 | 838 | 839 | 840 | 841 | 842 |
| ## | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
| ## | 843 | 844 | 845 | 846 | 847 | 848 | 849 | 850 | 851 | 852 | 853 | 854 | 855 |
| ## | 1 | 1 | 2 | 1 | 1 | 1 | 2 | 1 | 1 | 1 | 1 | 2 | 1 |
| ## | 856 | 857 | 858 | 859 | 860 | 861 | 862 | 863 | 864 | 865 | 866 | 867 | 868 |
| ## | 2 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 2 | 1 |
| ## | 869 | 870 | 871 | 872 | 874 | 875 | 876 | 877 | 878 | 879 | 880 | 881 | 882 |
| ## | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 2 | 1 | 1 | 1 | 1 |
| ## | 883 | 884 | 885 | 886 | 887 | 888 | 889 | 891 | 892 | 893 | 894 | 895 | 896 |
| ## | 1 | 1 | 2 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 2 | 1 |
| ## | 897 | 898 | 899 | 900 | 901 | 902 | 903 | 904 | 905 | 906 | 907 | 908 | 909 |
| ## | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 2 | 2 | 1 | 1 |
| ## | 910 | 911 | 912 | 913 | 914 | 915 | 916 | 917 | 918 | 919 | 920 | 921 | 922 |
| ## | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 2 | 1 | 2 | 1 | 1 | 1 |
| ## | 924 | 925 | 926 | 927 | 928 | 929 | 930 | 931 | 932 | 933 | 934 | 935 | 936 |
| ## | 1 | 2 | 2 | 1 | 1 | 1 | 1 | 1 | 2 | 2 | 1 | 1 | 1 |
| ## | 937 | 938 | 939 | 940 | 941 | 942 | 943 | 944 | 945 | 946 | 947 | 949 | 950 |
| ## | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 2 | 1 | 1 | 2 | 1 |
| ## | 951 | 952 | 953 | 954 | 955 | 956 | 957 | 958 | 959 | 960 | 961 | 962 | 963 |
| ## | 1 | 1 | 2 | 1 | 1 | 2 | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
| ## | 964 | 965 | 966 | 967 | 968 | 969 | 970 | 971 | 972 | 973 | 974 | 976 | 977 |
| ## | 1 | 1 | 1 | 2 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
| ## | 978 | 979 | 980 | 981 | 982 | 983 | 984 | 985 | 986 | 987 | 988 | 989 | 990 |
| ## | 1 | 1 | 2 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
| ## | 991 | 992 | 993 | 994 | 995 | 996 | 997 | 998 | 999 | 1000 | 1001 | 1002 | 1003 |
| ## | 1 | 1 | 1 | 1 | 1 | 1 | 2 | 1 | 1 | 1 | 1 | 1 | 1 |
| ## | 1004 | 1005 | 1006 | 1007 | 1008 | 1009 | 1010 | 1011 | 1012 | 1013 | 1014 | 1015 | 1016 |
| ## | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
| ## | 1017 | 1018 | 1019 | 1020 | 1021 | 1022 | 1023 | 1024 | 1025 | 1026 | 1027 | 1028 | 1029 |
| ## | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 2 | 1 | 1 |
| ## | 1030 | 1031 | 1032 | 1033 | 1034 | 1036 | 1037 | 1038 | 1039 | 1040 | 1041 | 1042 | 1043 |
| ## | 1 | 1 | 1 | 1 | 1 | 1 | 2 | 2 | 1 | 1 | 1 | 2 | 1 |
| ## | 1044 | 1045 | 1046 | 1047 | 1048 | 1049 | 1050 | 1051 | 1052 | 1053 | 1054 | 1055 | 1056 |
| ## | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 2 | 1 | 1 | 1 | 1 |
| ## | 1057 | 1058 | 1059 | 1060 | 1061 | 1062 | 1063 | 1064 | 1065 | 1067 | 1068 | 1069 | 1070 |
| ## | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 2 |
| ## | 1071 | 1072 | 1073 | 1074 | 1075 | 1076 | 1077 | 1078 | 1079 | 1080 | 1081 | 1082 | 1083 |
| ## | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
| ## | 1084 | 1085 | 1086 | 1087 | 1088 | 1089 | 1090 | 1091 | 1092 | 1093 | 1094 | 1095 | 1096 |
| ## | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
| ## | 1097 | 1098 | 1099 | 1100 | 1101 | 1102 | 1103 | 1104 | 1105 | 1106 | 1107 | 1108 | 1109 |
| ## | 2 | 1 | 1 | 1 | 1 | 1 | 2 | 1 | 1 | 2 | 1 | 1 | 1 |
| ## | 1110 | 1111 | 1112 | 1113 | 1114 | 1115 | 1116 | 1117 | 1118 | 1119 | 1121 | 1122 | 1123 |
| ## | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
| ## | 1124 | 1125 | 1126 | 1127 | 1128 | 1129 | 1130 | 1131 | 1132 | 1138 | 1139 | 1140 | 1141 |
| ## | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 2 | 1 | 1 | 1 | 1 |
| ## | 1142 | 1143 | 1144 | 1145 | 1146 | 1147 | 1148 | 1149 | 1150 | 1151 | 1152 | 1153 | 1154 |
| ## | 2 | 1 | 1 | 1 | 1 | 2 | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
| ## | 1155 | 1156 | 1157 | 1158 | 1159 | 1160 | 1161 | 1162 | 1163 | 1164 | 1165 | 1166 | 1167 |
| ## | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
| ## | 1168 | 1169 | 1170 | 1172 | 1173 | 1174 | 1175 | 1176 | 1178 | 1179 | 1180 | 1181 | 1182 |
| ## | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
| ## | 1183 | 1184 | 1185 | 1186 | 1187 | 1188 | 1189 | 1190 | 1191 | 1192 | 1193 | 1194 | 1195 |
| ## | 2 | 1 | 1 | 2 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 |

| | | | | | | | | | | | | | |
|----|------|------|------|------|------|------|------|------|------|------|------|------|------|
| ## | 1196 | 1197 | 1198 | 1199 | 1200 | 1201 | 1202 | 1203 | 1204 | 1205 | 1206 | 1207 | 1208 |
| ## | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 2 | 1 | 1 | 1 | 1 | 2 |
| ## | 1209 | 1210 | 1211 | 1212 | 1213 | 1216 | 1217 | 1218 | 1219 | 1220 | 1221 | 1222 | 1223 |
| ## | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 2 | 1 | 1 | 1 | 1 |
| ## | 1224 | 1225 | 1226 | 1227 | 1228 | 1229 | 1230 | 1231 | 1232 | 1233 | 1234 | 1235 | 1236 |
| ## | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 2 | 1 | 2 | 1 | 1 |
| ## | 1237 | 1238 | 1239 | 1240 | 1241 | 1242 | 1243 | 1244 | 1245 | 1246 | 1247 | 1248 | 1249 |
| ## | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
| ## | 1250 | 1251 | 1252 | 1253 | 1254 | 1255 | 1256 | 1257 | 1258 | 1259 | 1260 | 1261 | 1262 |
| ## | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
| ## | 1263 | 1264 | 1265 | 1266 | 1267 | 1268 | 1269 | 1270 | 1271 | 1272 | 1273 | 1274 | 1275 |
| ## | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 2 | 2 | 1 |
| ## | 1276 | 1277 | 1278 | 1279 | 1280 | 1281 | 1282 | 1283 | 1284 | 1285 | 1286 | 1287 | 1288 |
| ## | 1 | 2 | 2 | 1 | 1 | 1 | 2 | 1 | 1 | 1 | 1 | 1 | 1 |
| ## | 1289 | 1290 | 1291 | 1293 | 1294 | 1295 | 1296 | 1297 | 1298 | 1299 | 1300 | 1301 | 1302 |
| ## | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
| ## | 1303 | 1304 | 1305 | 1306 | 1307 | 1308 | 1309 | 1310 | 1311 | 1312 | 1313 | 1314 | 1315 |
| ## | 2 | 2 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
| ## | 1316 | 1317 | 1318 | 1319 | 1320 | 1321 | 1322 | 1323 | 1324 | 1325 | 1327 | 1328 | 1329 |
| ## | 1 | 1 | 1 | 1 | 1 | 2 | 1 | 1 | 1 | 2 | 1 | 1 | 1 |
| ## | 1330 | 1331 | 1332 | 1333 | 1334 | 1335 | 1336 | 1337 | 1338 | 1339 | 1340 | 1341 | 1342 |
| ## | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 2 | 1 | 1 |
| ## | 1343 | 1344 | 1345 | 1346 | 1347 | 1348 | 1349 | 1350 | 1351 | 1352 | 1353 | 1354 | 1355 |
| ## | 2 | 1 | 1 | 1 | 2 | 1 | 1 | 1 | 1 | 2 | 1 | 1 | 1 |
| ## | 1356 | 1358 | 1359 | 1360 | 1361 | 1362 | 1363 | 1364 | 1365 | 1366 | 1368 | 1369 | 1370 |
| ## | 1 | 1 | 1 | 1 | 1 | 1 | 2 | 1 | 1 | 1 | 1 | 2 | 1 |
| ## | 1371 | 1372 | 1373 | 1374 | 1375 | 1376 | 1377 | 1378 | 1379 | 1380 | 1381 | 1383 | 1384 |
| ## | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 2 | 1 | 1 | 1 |
| ## | 1385 | 1386 | 1387 | 1388 | 1389 | 1390 | 1392 | 1393 | 1394 | 1396 | 1397 | 1398 | 1399 |
| ## | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
| ## | 1400 | 1401 | 1402 | 1403 | 1404 | 1405 | 1406 | 1407 | 1408 | 1409 | 1410 | 1411 | 1412 |
| ## | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
| ## | 1413 | 1414 | 1415 | 1416 | 1417 | 1418 | 1419 | 1420 | 1421 | 1422 | 1423 | 1424 | 1425 |
| ## | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
| ## | 1426 | 1427 | 1428 | 1429 | 1430 | 1431 | 1432 | 1433 | 1434 | 1435 | 1436 | 1438 | 1439 |
| ## | 1 | 1 | 2 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
| ## | 1440 | 1441 | 1442 | 1443 | 1444 | 1445 | 1446 | 1447 | 1448 | 1449 | 1450 | 1451 | 1452 |
| ## | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 2 | 1 | 1 | 1 |
| ## | 1453 | 1455 | 1456 | 1457 | 1458 | 1459 | 1460 | 1461 | 1462 | 1463 | 1464 | 1465 | 1466 |
| ## | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 2 | 1 | 1 |
| ## | 1467 | 1468 | 1469 | 1470 | 1471 | 1472 | 1473 | 1478 | 1479 | 1480 | 1481 | 1482 | 1483 |
| ## | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
| ## | 1484 | 1485 | 1486 | 1487 | 1488 | 1489 | 1490 | 1491 | 1492 | 1493 | 1494 | 1495 | 1496 |
| ## | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 2 | 1 | 1 | 2 |
| ## | 1497 | 1498 | 1499 | 1500 | 1501 | 1502 | 1503 | 1504 | 1505 | 1506 | 1507 | 1508 | 1509 |
| ## | 2 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
| ## | 1510 | 1511 | 1512 | 1513 | 1514 | 1515 | 1517 | 1518 | 1519 | 1520 | 1521 | 1522 | 1523 |
| ## | 2 | 1 | 1 | 1 | 1 | 1 | 2 | 1 | 1 | 2 | 1 | 1 | 1 |
| ## | 1524 | 1525 | 1526 | 1527 | 1528 | 1529 | 1530 | 1531 | 1532 | 1533 | 1534 | 1535 | 1536 |
| ## | 1 | 1 | 1 | 1 | 1 | 1 | 2 | 1 | 1 | 1 | 1 | 1 | 1 |
| ## | 1537 | 1538 | 1539 | 1540 | 1541 | 1542 | 1543 | 1544 | 1545 | 1546 | 1547 | 1548 | 1549 |
| ## | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
| ## | 1550 | 1551 | 1552 | 1553 | 1554 | 1555 | 1556 | 1557 | 1558 | 1559 | 1560 | 1561 | 1562 |
| ## | 1 | 1 | 1 | 1 | 1 | 2 | 1 | 2 | 1 | 1 | 1 | 1 | 1 |

| | | | | | | | | | | | | | |
|----|------|------|------|------|------|------|------|------|------|------|------|------|------|
| ## | 1563 | 1564 | 1565 | 1566 | 1567 | 1568 | 1569 | 1570 | 1571 | 1572 | 1573 | 1575 | 1576 |
| ## | 1 | 1 | 2 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 2 | 1 | 1 |
| ## | 1577 | 1578 | 1579 | 1580 | 1581 | 1582 | 1583 | 1584 | 1585 | 1586 | 1587 | 1588 | 1589 |
| ## | 1 | 1 | 1 | 2 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
| ## | 1590 | 1591 | 1592 | 1593 | 1594 | 1595 | 1596 | 1597 | 1598 | 1599 | 1600 | 1601 | 1602 |
| ## | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
| ## | 1603 | 1604 | 1605 | 1606 | 1607 | 1608 | 1610 | 1611 | 1612 | 1613 | 1614 | 1615 | 1616 |
| ## | 1 | 1 | 1 | 2 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
| ## | 1617 | 1618 | 1619 | 1620 | 1621 | 1622 | 1623 | 1624 | 1625 | 1626 | 1627 | 1628 | 1629 |
| ## | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
| ## | 1630 | 1631 | 1632 | 1633 | 1634 | 1635 | 1636 | 1637 | 1638 | 1639 | 1640 | 1641 | 1642 |
| ## | 2 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
| ## | 1643 | 1644 | 1645 | 1646 | 1647 | 1648 | 1649 | 1650 | 1651 | 1652 | 1653 | 1654 | 1655 |
| ## | 1 | 1 | 2 | 1 | 2 | 1 | 1 | 1 | 1 | 1 | 2 | 1 | 2 |
| ## | 1656 | 1657 | 1658 | 1659 | 1660 | 1661 | 1662 | 1663 | 1664 | 1665 | 1666 | 1667 | 1668 |
| ## | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 2 | 1 | 2 | 1 |
| ## | 1669 | 1670 | 1671 | 1672 | 1673 | 1674 | 1675 | 1676 | 1677 | 1678 | 1679 | 1680 | 1681 |
| ## | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 2 | 1 | 1 |
| ## | 1682 | 1683 | 1684 | 1685 | 1686 | 1687 | 1688 | 1689 | 1690 | 1691 | 1692 | 1693 | 1694 |
| ## | 1 | 1 | 1 | 1 | 2 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
| ## | 1695 | 1696 | 1697 | 1699 | 1700 | 1701 | 1702 | 1703 | 1704 | 1705 | 1706 | 1707 | 1708 |
| ## | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
| ## | 1709 | 1710 | 1711 | 1712 | 1713 | 1714 | 1715 | 1716 | 1717 | 1718 | 1719 | 1720 | 1721 |
| ## | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
| ## | 1722 | 1723 | 1724 | 1725 | 1726 | 1727 | 1728 | 1729 | 1730 | 1731 | 1732 | 1733 | 1734 |
| ## | 1 | 2 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 2 | 1 |
| ## | 1735 | 1736 | 1737 | 1738 | 1739 | 1740 | 1741 | 1742 | 1743 | 1744 | 1745 | 1746 | 1747 |
| ## | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 2 | 1 | 1 | 1 |
| ## | 1748 | 1749 | 1750 | 1751 | 1752 | 1753 | 1754 | 1755 | 1756 | 1757 | 1758 | 1759 | 1760 |
| ## | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
| ## | 1761 | 1762 | 1763 | 1764 | 1765 | 1766 | 1767 | 1768 | 1769 | 1770 | 1771 | 1772 | 1773 |
| ## | 1 | 2 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
| ## | 1774 | 1775 | 1777 | 1778 | 1779 | 1780 | 1781 | 1782 | 1783 | 1784 | 1785 | 1786 | 1787 |
| ## | 2 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 2 | 1 | 1 | 1 | 2 |
| ## | 1788 | 1789 | 1790 | 1791 | 1792 | 1793 | 1794 | 1795 | 1796 | 1797 | 1798 | 1799 | 1800 |
| ## | 1 | 1 | 2 | 1 | 1 | 1 | 2 | 1 | 1 | 2 | 1 | 1 | 1 |
| ## | 1801 | 1802 | 1803 | 1804 | 1806 | 1807 | 1808 | 1809 | 1810 | 1811 | 1812 | 1813 | 1814 |
| ## | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 2 | 1 | 1 | 1 | 1 |
| ## | 1815 | 1816 | 1817 | 1818 | 1819 | 1820 | 1821 | 1822 | 1823 | 1824 | 1825 | 1826 | 1827 |
| ## | 1 | 2 | 1 | 1 | 1 | 1 | 1 | 1 | 2 | 2 | 1 | 1 | 2 |
| ## | 1828 | 1829 | 1830 | 1831 | 1832 | 1833 | 1834 | 1835 | 1836 | 1837 | 1838 | 1839 | 1841 |
| ## | 1 | 1 | 1 | 1 | 1 | 1 | 2 | 1 | 1 | 1 | 2 | 1 | 1 |
| ## | 1842 | 1843 | 1844 | 1845 | 1846 | 1847 | 1848 | 1849 | 1850 | 1851 | 1852 | 1853 | 1854 |
| ## | 1 | 1 | 1 | 1 | 1 | 2 | 1 | 1 | 1 | 1 | 2 | 1 | 1 |
| ## | 1855 | 1856 | 1857 | 1858 | 1859 | 1860 | 1861 | 1862 | 1863 | 1864 | 1865 | 1866 | 1868 |
| ## | 1 | 2 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 2 | 1 |
| ## | 1869 | 1870 | 1871 | 1872 | 1873 | 1874 | 1875 | 1876 | 1877 | 1878 | 1879 | 1880 | 1881 |
| ## | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
| ## | 1882 | 1883 | 1884 | 1885 | 1886 | 1887 | 1888 | 1889 | 1890 | 1891 | 1892 | 1893 | 1894 |
| ## | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
| ## | 1895 | 1896 | 1897 | 1898 | 1899 | 1900 | 1901 | 1902 | 1903 | 1904 | 1905 | 1906 | 1907 |
| ## | 1 | 2 | 1 | 1 | 1 | 1 | 2 | 1 | 1 | 1 | 2 | 1 | 1 |
| ## | 1908 | 1909 | 1910 | 1911 | 1912 | 1913 | 1914 | 1915 | 1916 | 1917 | 1918 | 1919 | 1920 |
| ## | 1 | 1 | 1 | 1 | 1 | 1 | 2 | 1 | 1 | 1 | 1 | 1 | 2 |

| | | | | | | | | | | | | | |
|----|------|------|------|------|------|------|------|------|------|------|------|------|------|
| ## | 1921 | 1922 | 1923 | 1924 | 1925 | 1927 | 1928 | 1929 | 1930 | 1931 | 1932 | 1933 | 1935 |
| ## | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
| ## | 1936 | 1937 | 1938 | 1939 | 1940 | 1941 | 1942 | 1943 | 1944 | 1945 | 1946 | 1947 | 1948 |
| ## | 2 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
| ## | 1949 | 1951 | 1952 | 1953 | 1954 | 1955 | 1956 | 1957 | 1958 | 1959 | 1960 | 1961 | 1962 |
| ## | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 2 | 1 | 1 | 1 | 1 |
| ## | 1963 | 1964 | 1965 | 1966 | 1967 | 1968 | 1969 | 1970 | 1971 | 1972 | 1973 | 1974 | 1975 |
| ## | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
| ## | 1976 | 1977 | 1978 | 1979 | 1980 | 1981 | 1982 | 1983 | 1984 | 1985 | 1986 | 1987 | 1988 |
| ## | 2 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
| ## | 1989 | 1990 | 1991 | 1992 | 1993 | 1994 | 1995 | 1996 | 1997 | 1998 | 1999 | 2000 | 2001 |
| ## | 2 | 2 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 2 |
| ## | 2002 | 2003 | 2004 | 2005 | 2006 | 2007 | 2008 | 2009 | 2010 | 2011 | 2012 | 2013 | 2014 |
| ## | 1 | 1 | 1 | 1 | 1 | 2 | 1 | 2 | 1 | 2 | 2 | 2 | 1 |
| ## | 2015 | 2016 | 2017 | 2018 | 2019 | 2020 | 2021 | 2022 | 2023 | 2024 | 2025 | 2026 | 2027 |
| ## | 1 | 2 | 2 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
| ## | 2028 | 2029 | 2030 | 2031 | 2032 | 2033 | 2034 | 2035 | 2036 | 2037 | 2041 | 2042 | 2043 |
| ## | 1 | 1 | 1 | 2 | 1 | 1 | 1 | 1 | 1 | 1 | 2 | 2 | 1 |
| ## | 2044 | 2045 | 2046 | 2047 | 2048 | 2049 | 2050 | 2051 | 2052 | 2053 | 2054 | 2055 | 2056 |
| ## | 1 | 1 | 2 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
| ## | 2059 | 2060 | 2061 | 2062 | 2063 | 2064 | 2065 | 2066 | 2067 | 2068 | 2069 | 2070 | 2071 |
| ## | 1 | 1 | 1 | 1 | 1 | 1 | 2 | 1 | 1 | 1 | 1 | 1 | 2 |
| ## | 2072 | 2073 | 2074 | 2075 | 2076 | 2077 | 2078 | 2079 | 2080 | 2081 | 2082 | 2083 | 2084 |
| ## | 2 | 1 | 2 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
| ## | 2085 | 2086 | 2087 | 2088 | 2089 | 2090 | 2091 | 2092 | 2093 | 2094 | 2095 | 2096 | 2097 |
| ## | 1 | 2 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 2 | 1 | 1 | 1 |
| ## | 2098 | 2099 | 2100 | 2101 | 2102 | 2103 | 2104 | 2105 | 2106 | 2107 | 2108 | 2109 | 2110 |
| ## | 1 | 1 | 1 | 1 | 1 | 1 | 2 | 1 | 1 | 1 | 1 | 1 | 1 |
| ## | 2111 | 2112 | 2113 | 2114 | 2115 | 2116 | 2117 | 2118 | 2119 | 2120 | 2121 | 2122 | 2123 |
| ## | 2 | 2 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
| ## | 2124 | 2125 | 2126 | 2127 | 2128 | 2129 | 2130 | 2131 | 2132 | 2133 | 2134 | 2135 | 2136 |
| ## | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 2 | 2 | 1 | 1 |
| ## | 2137 | 2138 | 2139 | 2140 | 2141 | 2142 | 2143 | 2144 | 2145 | 2146 | 2147 | 2148 | 2149 |
| ## | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
| ## | 2150 | 2151 | 2152 | 2153 | 2154 | 2155 | 2156 | 2157 | 2158 | 2159 | 2160 | 2161 | 2162 |
| ## | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
| ## | 2163 | 2164 | 2165 | 2166 | 2167 | 2168 | 2169 | 2170 | 2171 | 2172 | 2173 | 2174 | 2175 |
| ## | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
| ## | 2176 | 2177 | 2178 | 2179 | 2180 | 2181 | 2182 | 2183 | 2184 | 2185 | 2186 | 2187 | 2188 |
| ## | 1 | 1 | 1 | 2 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
| ## | 2189 | 2190 | 2191 | 2192 | 2193 | 2194 | 2195 | 2196 | 2197 | 2198 | 2199 | 2200 | 2201 |
| ## | 2 | 1 | 1 | 1 | 1 | 2 | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
| ## | 2202 | 2203 | 2204 | 2205 | 2206 | 2207 | 2208 | 2209 | 2210 | 2211 | 2212 | 2213 | 2214 |
| ## | 1 | 2 | 2 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 2 |
| ## | 2215 | 2216 | 2217 | 2218 | 2219 | 2220 | 2221 | 2222 | 2223 | 2224 | 2225 | 2226 | 2227 |
| ## | 2 | 1 | 2 | 1 | 1 | 2 | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
| ## | 2228 | 2229 | 2230 | 2231 | 2232 | 2233 | 2234 | 2235 | 2237 | 2238 | 2239 | 2240 | 2241 |
| ## | 2 | 1 | 1 | 2 | 1 | 1 | 1 | 2 | 1 | 1 | 2 | 1 | 1 |
| ## | 2242 | 2243 | 2244 | 2245 | 2246 | 2247 | 2248 | 2249 | 2250 | 2251 | 2252 | 2253 | 2254 |
| ## | 1 | 1 | 1 | 1 | 1 | 1 | 2 | 1 | 2 | 1 | 1 | 1 | 1 |
| ## | 2255 | 2256 | 2257 | 2258 | 2259 | 2260 | 2261 | 2262 | 2263 | 2264 | 2265 | 2266 | 2267 |
| ## | 2 | 2 | 2 | 1 | 1 | 2 | 1 | 1 | 2 | 1 | 1 | 1 | 1 |
| ## | 2268 | 2269 | 2270 | 2271 | 2272 | 2273 | 2274 | 2275 | 2276 | 2277 | 2278 | 2279 | 2280 |
| ## | 1 | 1 | 1 | 1 | 1 | 1 | 2 | 1 | 2 | 1 | 2 | 1 | 1 |

| | | | | | | | | | | | | | |
|----|------|------|------|------|------|------|------|------|------|------|------|------|------|
| ## | 2281 | 2282 | 2283 | 2284 | 2285 | 2286 | 2287 | 2288 | 2289 | 2290 | 2291 | 2292 | 2293 |
| ## | 1 | 1 | 1 | 1 | 2 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 2 |
| ## | 2294 | 2295 | 2296 | 2297 | 2298 | 2299 | 2300 | 2301 | 2302 | 2303 | 2304 | 2305 | 2306 |
| ## | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 2 | 1 | 1 | 1 | 1 |
| ## | 2307 | 2308 | 2309 | 2310 | 2311 | 2312 | 2313 | 2314 | 2315 | 2316 | 2317 | 2318 | 2319 |
| ## | 1 | 1 | 1 | 1 | 1 | 1 | 2 | 2 | 1 | 1 | 1 | 1 | 1 |
| ## | 2320 | 2321 | 2322 | 2323 | 2324 | 2325 | 2326 | 2327 | 2328 | 2329 | 2330 | 2331 | 2332 |
| ## | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
| ## | 2333 | 2334 | 2335 | 2336 | 2337 | 2338 | 2339 | 2340 | 2341 | 2342 | 2343 | 2344 | 2345 |
| ## | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
| ## | 2346 | 2347 | 2348 | 2349 | 2350 | 2351 | 2352 | 2353 | 2354 | 2355 | 2356 | 2357 | 2358 |
| ## | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
| ## | 2359 | 2360 | 2361 | 2362 | 2363 | 2364 | 2365 | 2366 | 2367 | 2368 | 2369 | 2370 | 2371 |
| ## | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 2 | 1 | 1 | 2 | 1 |
| ## | 2372 | 2373 | 2374 | 2375 | 2376 | 2377 | 2378 | 2379 | 2380 | 2381 | 2382 | 2383 | 2384 |
| ## | 2 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
| ## | 2385 | 2386 | 2387 | 2388 | 2389 | 2390 | 2391 | 2392 | 2393 | 2394 | 2395 | 2396 | 2397 |
| ## | 1 | 1 | 1 | 1 | 1 | 2 | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
| ## | 2398 | 2399 | 2400 | 2401 | 2402 | 2403 | 2404 | 2405 | 2406 | 2407 | 2408 | 2409 | 2410 |
| ## | 2 | 1 | 2 | 2 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
| ## | 2411 | 2412 | 2413 | 2414 | 2415 | 2416 | 2417 | 2418 | 2419 | 2420 | 2421 | 2422 | 2423 |
| ## | 1 | 1 | 1 | 1 | 2 | 2 | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
| ## | 2424 | 2425 | 2426 | 2427 | 2428 | 2429 | 2430 | 2431 | 2432 | 2433 | 2434 | 2435 | 2436 |
| ## | 1 | 1 | 1 | 1 | 1 | 2 | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
| ## | 2437 | 2438 | 2439 | 2440 | 2441 | 2442 | 2443 | 2444 | 2445 | 2446 | 2447 | 2448 | 2449 |
| ## | 1 | 1 | 1 | 1 | 1 | 2 | 1 | 1 | 1 | 2 | 2 | 1 | 1 |
| ## | 2450 | 2451 | 2452 | 2453 | 2454 | 2455 | 2456 | 2457 | 2458 | 2459 | 2460 | 2461 | 2462 |
| ## | 1 | 1 | 2 | 1 | 1 | 1 | 1 | 1 | 2 | 1 | 1 | 1 | 1 |
| ## | 2463 | 2464 | 2465 | 2466 | 2467 | 2468 | 2469 | 2470 | 2471 | 2472 | 2473 | 2474 | 2475 |
| ## | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 2 | 2 | 1 |
| ## | 2476 | 2477 | 2478 | 2479 | 2480 | 2481 | 2482 | 2483 | 2484 | 2485 | 2486 | 2487 | 2488 |
| ## | 1 | 2 | 1 | 2 | 1 | 1 | 1 | 1 | 1 | 2 | 1 | 2 | 1 |
| ## | 2489 | 2490 | 2491 | 2492 | 2493 | 2494 | 2495 | 2496 | 2497 | 2498 | 2499 | 2500 | 2501 |
| ## | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
| ## | 2502 | 2503 | 2504 | 2505 | 2506 | 2507 | 2508 | 2509 | 2510 | 2511 | 2512 | 2513 | 2514 |
| ## | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
| ## | 2515 | 2516 | 2517 | 2518 | 2519 | 2520 | 2521 | 2522 | 2523 | 2524 | 2525 | 2526 | 2527 |
| ## | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 2 | 1 | 1 | 2 | 1 |
| ## | 2528 | 2529 | 2530 | 2531 | 2532 | 2533 | 2534 | 2535 | 2536 | 2537 | 2538 | 2539 | 2540 |
| ## | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 2 | 2 |
| ## | 2541 | 2542 | 2543 | 2544 | 2545 | 2546 | 2547 | 2548 | 2549 | 2550 | 2551 | 2552 | 2553 |
| ## | 1 | 1 | 2 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
| ## | 2554 | 2555 | 2556 | 2557 | 2558 | 2559 | 2560 | 2561 | 2562 | 2563 | 2564 | 2565 | 2566 |
| ## | 1 | 1 | 1 | 1 | 2 | 1 | 1 | 2 | 2 | 1 | 1 | 2 | 1 |
| ## | 2567 | 2568 | 2569 | 2570 | 2571 | 2572 | 2573 | 2574 | 2575 | 2576 | 2577 | 2578 | 2579 |
| ## | 1 | 1 | 2 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
| ## | 2580 | 2581 | 2582 | 2583 | 2584 | 2585 | 2586 | 2587 | 2588 | 2589 | 2590 | 2591 | 2592 |
| ## | 1 | 1 | 2 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 2 | 1 |
| ## | 2593 | 2594 | 2595 | 2596 | 2597 | 2598 | 2599 | 2600 | 2601 | 2602 | 2603 | 2604 | 2605 |
| ## | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 2 | 1 | 1 | 1 | 1 | 1 |
| ## | 2606 | 2607 | 2608 | 2609 | 2610 | 2611 | 2612 | 2613 | 2614 | 2615 | 2616 | 2617 | 2618 |
| ## | 1 | 2 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 2 |
| ## | 2619 | 2620 | 2621 | 2623 | 2624 | 2625 | 2626 | 2627 | 2628 | 2629 | 2630 | 2631 | 2632 |
| ## | 1 | 1 | 1 | 1 | 2 | 1 | 1 | 2 | 1 | 1 | 1 | 1 | 1 |

| | | | | | | | | | | | | | |
|----|------|------|------|------|------|------|------|------|------|------|------|------|------|
| ## | 2633 | 2634 | 2635 | 2636 | 2637 | 2638 | 2639 | 2640 | 2641 | 2642 | 2643 | 2644 | 2645 |
| ## | 1 | 2 | 1 | 1 | 1 | 2 | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
| ## | 2646 | 2647 | 2648 | 2649 | 2650 | 2651 | 2652 | 2653 | 2654 | 2655 | 2656 | 2657 | 2658 |
| ## | 2 | 1 | 1 | 2 | 1 | 2 | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
| ## | 2659 | 2660 | 2661 | 2662 | 2663 | 2664 | 2665 | 2666 | 2667 | 2668 | 2669 | 2670 | 2671 |
| ## | 1 | 1 | 1 | 1 | 1 | 2 | 1 | 1 | 1 | 1 | 2 | 1 | 1 |
| ## | 2672 | 2673 | 2674 | 2675 | 2676 | 2677 | 2678 | 2679 | 2680 | 2681 | 2682 | 2683 | 2684 |
| ## | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
| ## | 2685 | 2686 | 2687 | 2688 | 2689 | 2690 | 2691 | 2692 | 2693 | 2694 | 2695 | 2696 | 2697 |
| ## | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
| ## | 2698 | 2699 | 2700 | 2701 | 2702 | 2703 | 2704 | 2705 | 2706 | 2707 | 2708 | 2709 | 2710 |
| ## | 1 | 1 | 1 | 1 | 1 | 1 | 2 | 1 | 1 | 1 | 1 | 1 | 1 |
| ## | 2711 | 2712 | 2713 | 2714 | 2715 | 2716 | 2717 | 2718 | 2719 | 2720 | 2721 | 2722 | 2723 |
| ## | 2 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
| ## | 2724 | 2725 | 2726 | 2727 | 2728 | 2729 | 2730 | 2731 | 2732 | 2733 | 2734 | 2735 | 2736 |
| ## | 1 | 1 | 2 | 2 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
| ## | 2737 | 2738 | 2739 | 2741 | 2742 | 2743 | 2744 | 2745 | 2746 | 2747 | 2748 | 2749 | 2750 |
| ## | 1 | 1 | 2 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 2 | 1 | 1 |
| ## | 2751 | 2752 | 2753 | 2755 | 2756 | 2757 | 2758 | 2759 | 2760 | 2761 | 2762 | 2763 | 2764 |
| ## | 1 | 1 | 1 | 1 | 1 | 1 | 2 | 1 | 1 | 1 | 1 | 1 | 1 |
| ## | 2765 | 2766 | 2767 | 2768 | 2769 | 2770 | 2771 | 2772 | 2773 | 2774 | 2775 | 2776 | 2777 |
| ## | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 2 |
| ## | 2778 | 2779 | 2780 | 2781 | 2782 | 2783 | 2784 | 2785 | 2786 | 2787 | 2788 | 2789 | 2790 |
| ## | 1 | 1 | 1 | 1 | 1 | 2 | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
| ## | 2791 | 2792 | 2793 | 2794 | 2795 | 2796 | 2797 | 2798 | 2799 | 2800 | 2801 | 2802 | 2803 |
| ## | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
| ## | 2804 | 2805 | 2806 | 2807 | 2808 | 2809 | 2810 | 2811 | 2812 | 2813 | 2814 | 2815 | 2816 |
| ## | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
| ## | 2817 | 2818 | 2819 | 2820 | 2821 | 2822 | 2823 | 2824 | 2825 | 2826 | 2827 | 2828 | 2829 |
| ## | 1 | 1 | 1 | 1 | 1 | 2 | 1 | 1 | 2 | 1 | 1 | 1 | 1 |
| ## | 2830 | 2831 | 2832 | 2833 | 2834 | 2835 | 2836 | 2837 | 2838 | 2839 | 2840 | 2841 | 2842 |
| ## | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 2 | 1 | 1 |
| ## | 2843 | 2844 | 2845 | 2846 | 2847 | 2848 | 2849 | 2850 | 2851 | 2852 | 2853 | 2854 | 2855 |
| ## | 2 | 1 | 2 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
| ## | 2856 | 2857 | 2858 | 2859 | 2860 | 2861 | 2862 | 2863 | 2864 | 2865 | 2866 | 2867 | 2868 |
| ## | 1 | 2 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
| ## | 2869 | 2870 | 2871 | 2872 | 2873 | 2874 | 2875 | 2876 | 2877 | 2878 | 2879 | 2880 | 2881 |
| ## | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
| ## | 2882 | 2883 | 2884 | 2885 | 2886 | 2887 | 2888 | 2889 | 2890 | 2891 | 2892 | 2893 | 2894 |
| ## | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 2 | 1 | 1 | 1 |
| ## | 2895 | 2896 | 2897 | 2898 | 2899 | 2900 | 2901 | 2902 | 2903 | 2904 | 2905 | 2906 | 2907 |
| ## | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 2 | 1 | 1 | 2 | 1 |
| ## | 2908 | 2909 | 2910 | 2911 | 2912 | 2913 | 2914 | 2915 | 2916 | 2917 | 2918 | 2919 | 2920 |
| ## | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
| ## | 2921 | 2922 | 2923 | 2924 | 2925 | 2926 | 2927 | 2928 | 2929 | 2930 | 2931 | 2932 | 2933 |
| ## | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
| ## | 2934 | 2935 | 2936 | 2937 | 2938 | 2939 | 2940 | 2941 | 2942 | 2943 | 2944 | 2945 | 2946 |
| ## | 1 | 1 | 1 | 1 | 1 | 1 | 2 | 1 | 2 | 2 | 1 | 1 | 1 |
| ## | 2947 | 2948 | 2949 | 2950 | 2951 | 2952 | 2953 | 2954 | 2955 | 2956 | 2957 | 2958 | 2959 |
| ## | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
| ## | 2960 | 2961 | 2962 | 2963 | 2964 | 2965 | 2966 | 2967 | 2968 | 2969 | 2970 | 2971 | 2972 |
| ## | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 2 | 2 | 2 | 2 | 1 |
| ## | 2973 | 2974 | 2975 | 2976 | 2977 | 2978 | 2979 | 2980 | 2981 | 2982 | 2983 | 2984 | 2985 |
| ## | 1 | 1 | 2 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 |

| | | | | | | | | | | | | | |
|----|------|------|------|------|------|------|------|------|------|------|------|------|------|
| ## | 2986 | 2987 | 2988 | 2989 | 2990 | 2991 | 2992 | 2993 | 2994 | 2995 | 2996 | 2997 | 2998 |
| ## | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 2 | 1 |
| ## | 2999 | 3000 | 3001 | 3002 | 3003 | 3004 | 3005 | 3006 | 3007 | 3008 | 3009 | 3010 | 3011 |
| ## | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
| ## | 3012 | 3013 | 3014 | 3015 | 3016 | 3017 | 3018 | 3019 | 3020 | 3021 | 3022 | 3023 | 3024 |
| ## | 2 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 2 | 1 | 2 | 1 | 2 |
| ## | 3025 | 3026 | 3027 | 3028 | 3029 | 3030 | 3031 | 3032 | 3033 | 3034 | 3035 | 3036 | 3037 |
| ## | 1 | 1 | 1 | 1 | 1 | 2 | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
| ## | 3038 | 3039 | 3040 | 3041 | 3042 | 3043 | 3044 | 3045 | 3046 | 3047 | 3048 | 3049 | 3050 |
| ## | 1 | 1 | 2 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
| ## | 3051 | 3052 | 3053 | 3054 | 3055 | 3056 | 3057 | 3058 | 3059 | 3060 | 3061 | 3062 | 3063 |
| ## | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
| ## | 3064 | 3065 | 3066 | 3067 | 3068 | 3069 | 3070 | 3071 | 3072 | 3073 | 3074 | 3075 | 3076 |
| ## | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
| ## | 3077 | 3078 | 3079 | 3080 | 3081 | 3082 | 3083 | 3084 | 3085 | 3086 | 3087 | 3088 | 3089 |
| ## | 1 | 1 | 1 | 2 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
| ## | 3090 | 3091 | 3092 | 3093 | 3094 | 3095 | 3096 | 3097 | 3098 | 3099 | 3100 | 3101 | 3102 |
| ## | 1 | 1 | 2 | 2 | 1 | 2 | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
| ## | 3103 | 3104 | 3105 | 3106 | 3107 | 3108 | 3109 | 3110 | 3111 | 3112 | 3113 | 3114 | 3115 |
| ## | 1 | 1 | 1 | 2 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
| ## | 3116 | 3117 | 3118 | 3119 | 3120 | 3121 | 3122 | 3123 | 3124 | 3125 | 3126 | 3127 | 3128 |
| ## | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 2 | 1 | 1 | 1 | 1 | 2 |
| ## | 3129 | 3130 | 3131 | 3132 | 3133 | 3134 | 3135 | 3136 | 3137 | 3138 | 3139 | 3140 | 3141 |
| ## | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
| ## | 3142 | 3143 | 3144 | 3145 | 3146 | 3147 | 3148 | 3149 | 3150 | 3151 | 3152 | 3153 | 3154 |
| ## | 1 | 1 | 2 | 1 | 1 | 1 | 1 | 2 | 1 | 1 | 1 | 1 | 1 |
| ## | 3155 | 3156 | 3157 | 3158 | 3159 | 3160 | 3161 | 3162 | 3163 | 3164 | 3165 | 3166 | 3167 |
| ## | 1 | 1 | 2 | 1 | 1 | 1 | 1 | 1 | 2 | 1 | 2 | 1 | 1 |
| ## | 3168 | 3169 | 3170 | 3171 | 3172 | 3173 | 3174 | 3175 | 3176 | 3177 | 3178 | 3179 | 3180 |
| ## | 1 | 1 | 2 | 1 | 2 | 2 | 1 | 1 | 1 | 1 | 1 | 1 | 2 |
| ## | 3181 | 3182 | 3183 | 3184 | 3185 | 3186 | 3187 | 3188 | 3189 | 3190 | 3191 | 3192 | 3193 |
| ## | 1 | 1 | 1 | 1 | 1 | 2 | 1 | 1 | 1 | 1 | 1 | 2 | 1 |
| ## | 3194 | 3195 | 3196 | 3197 | 3198 | 3199 | 3200 | 3201 | 3202 | 3203 | 3204 | 3205 | 3206 |
| ## | 2 | 1 | 1 | 1 | 2 | 1 | 1 | 2 | 1 | 2 | 1 | 1 | 1 |
| ## | 3207 | 3208 | 3209 | 3210 | 3211 | 3212 | 3213 | 3214 | 3215 | 3216 | 3217 | 3218 | 3219 |
| ## | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 2 | 1 | 2 | 1 | 1 | 1 |
| ## | 3220 | 3221 | 3222 | 3223 | 3224 | 3225 | 3226 | 3227 | 3228 | 3229 | 3230 | 3231 | 3233 |
| ## | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 2 | 2 | 1 | 1 | 1 |
| ## | 3234 | 3235 | 3236 | 3237 | 3238 | 3239 | 3240 | 3241 | 3242 | 3243 | 3244 | 3245 | 3246 |
| ## | 1 | 2 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 2 | 1 |
| ## | 3247 | 3248 | 3249 | 3250 | 3251 | 3252 | 3253 | 3254 | 3255 | 3256 | 3257 | 3258 | 3259 |
| ## | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
| ## | 3260 | 3261 | 3262 | 3263 | 3264 | 3265 | 3266 | 3267 | 3268 | 3269 | 3270 | 3271 | 3272 |
| ## | 1 | 2 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 2 | 1 | 1 | 2 |
| ## | 3274 | 3275 | 3276 | 3277 | 3278 | 3279 | 3280 | 3281 | 3283 | 3284 | 3285 | 3286 | 3287 |
| ## | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
| ## | 3288 | 3289 | 3290 | 3291 | 3292 | 3293 | 3294 | 3295 | 3296 | 3297 | 3298 | 3299 | 3300 |
| ## | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
| ## | 3301 | 3302 | 3303 | 3304 | 3305 | 3306 | 3307 | 3308 | 3309 | 3310 | 3311 | 3312 | 3313 |
| ## | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 2 | 1 | 1 | 1 | 1 |
| ## | 3314 | 3315 | 3316 | 3317 | 3318 | 3319 | 3320 | 3321 | 3322 | 3323 | 3324 | 3325 | 3326 |
| ## | 2 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
| ## | 3327 | 3328 | 3329 | 3330 | 3331 | 3332 | 3333 | 3334 | 3335 | 3336 | 3337 | 3338 | 3339 |
| ## | 1 | 1 | 2 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 2 |

| | | | | | | | | | | | | | |
|----|------|------|------|------|------|------|------|------|------|------|------|------|------|
| ## | 3340 | 3341 | 3342 | 3343 | 3344 | 3345 | 3346 | 3347 | 3348 | 3349 | 3350 | 3351 | 3352 |
| ## | 1 | 1 | 1 | 1 | 1 | 1 | 2 | 1 | 1 | 2 | 1 | 1 | 1 |
| ## | 3353 | 3354 | 3355 | 3356 | 3357 | 3358 | 3359 | 3360 | 3361 | 3362 | 3363 | 3364 | 3365 |
| ## | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 2 | 1 | 1 | 1 | 1 | 1 |
| ## | 3366 | 3367 | 3368 | 3369 | 3370 | 3371 | 3372 | 3373 | 3374 | 3375 | 3376 | 3377 | 3378 |
| ## | 1 | 1 | 1 | 1 | 2 | 2 | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
| ## | 3379 | 3380 | 3381 | 3382 | 3383 | 3384 | 3385 | 3386 | 3387 | 3388 | 3389 | 3390 | 3391 |
| ## | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
| ## | 3392 | 3393 | 3394 | 3395 | 3396 | 3397 | 3398 | 3399 | 3400 | 3401 | 3402 | 3403 | 3404 |
| ## | 1 | 2 | 1 | 1 | 1 | 1 | 2 | 2 | 1 | 1 | 1 | 1 | 1 |
| ## | 3405 | 3406 | 3407 | 3408 | 3409 | 3410 | 3411 | 3412 | 3413 | 3414 | 3415 | 3416 | 3417 |
| ## | 1 | 1 | 1 | 2 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
| ## | 3418 | 3419 | 3420 | 3421 | 3422 | 3423 | 3424 | 3425 | 3426 | 3427 | 3428 | 3429 | 3430 |
| ## | 1 | 1 | 1 | 1 | 1 | 2 | 1 | 1 | 1 | 1 | 1 | 1 | 2 |
| ## | 3431 | 3432 | 3433 | 3434 | 3435 | 3436 | 3437 | 3438 | 3439 | 3440 | 3441 | 3442 | 3443 |
| ## | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 2 | 1 | 1 | 1 |
| ## | 3444 | 3445 | 3446 | 3447 | 3448 | 3449 | 3450 | 3451 | 3452 | 3453 | 3454 | 3455 | 3456 |
| ## | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 2 | 1 | 1 |
| ## | 3457 | 3458 | 3459 | 3460 | 3461 | 3462 | 3463 | 3464 | 3465 | 3466 | 3467 | 3468 | 3469 |
| ## | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
| ## | 3470 | 3471 | 3472 | 3473 | 3474 | 3475 | 3476 | 3477 | 3478 | 3479 | 3480 | 3481 | 3482 |
| ## | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
| ## | 3483 | 3484 | 3485 | 3486 | 3487 | 3488 | 3489 | 3490 | 3491 | 3492 | 3493 | 3494 | 3495 |
| ## | 2 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 2 | 1 | 1 | 1 |
| ## | 3496 | 3497 | 3498 | 3499 | 3500 | 3501 | 3502 | 3503 | 3504 | 3505 | 3506 | 3507 | 3508 |
| ## | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 2 | 1 | 1 | 1 | 1 |
| ## | 3509 | 3510 | 3511 | 3512 | 3513 | 3514 | 3515 | 3516 | 3517 | 3518 | 3519 | 3520 | 3521 |
| ## | 1 | 1 | 2 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
| ## | 3522 | 3523 | 3524 | 3525 | 3526 | 3527 | 3528 | 3529 | 3530 | 3531 | 3532 | 3533 | 3534 |
| ## | 1 | 1 | 1 | 2 | 1 | 2 | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
| ## | 3535 | 3536 | 3537 | 3538 | 3539 | 3540 | 3541 | 3542 | 3543 | 3544 | 3545 | 3546 | 3547 |
| ## | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 2 | 2 | 1 | 1 | 1 | 1 |
| ## | 3548 | 3549 | 3550 | 3551 | 3552 | 3553 | 3554 | 3555 | 3556 | 3557 | 3558 | 3559 | 3560 |
| ## | 1 | 2 | 1 | 1 | 2 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
| ## | 3561 | 3562 | 3563 | 3564 | 3565 | 3566 | 3567 | 3568 | 3569 | 3570 | 3571 | 3572 | 3573 |
| ## | 1 | 2 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
| ## | 3574 | 3575 | 3576 | 3577 | 3579 | 3580 | 3581 | 3582 | 3583 | 3584 | 3585 | 3586 | 3587 |
| ## | 1 | 2 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
| ## | 3588 | 3589 | 3590 | 3591 | 3592 | 3593 | 3594 | 3595 | 3596 | 3597 | 3598 | 3599 | 3600 |
| ## | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
| ## | 3601 | 3602 | 3603 | 3604 | 3605 | 3606 | 3607 | 3608 | 3609 | 3610 | 3611 | 3612 | 3613 |
| ## | 1 | 1 | 2 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
| ## | 3614 | 3615 | 3616 | 3617 | 3618 | 3619 | 3620 | 3621 | 3622 | 3623 | 3624 | 3625 | 3626 |
| ## | 1 | 1 | 1 | 1 | 1 | 1 | 2 | 1 | 1 | 1 | 1 | 1 | 1 |
| ## | 3627 | 3628 | 3629 | 3630 | 3631 | 3632 | 3633 | 3634 | 3635 | 3636 | 3637 | 3638 | 3639 |
| ## | 1 | 1 | 2 | 1 | 2 | 1 | 1 | 1 | 1 | 1 | 2 | 1 | 1 |
| ## | 3640 | 3641 | 3642 | 3643 | 3644 | 3645 | 3646 | 3647 | 3648 | 3649 | 3650 | 3652 | 3653 |
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| ## | 3654 | 3655 | 3656 | 3657 | 3658 | 3659 | 3660 | 3661 | 3662 | 3663 | 3665 | 3666 | 3667 |
| ## | 1 | 2 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
| ## | 3668 | 3669 | 3670 | 3671 | 3672 | 3673 | 3674 | 3675 | 3676 | 3677 | 3678 | 3679 | 3680 |
| ## | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
| ## | 3681 | 3682 | 3683 | 3684 | 3685 | 3686 | 3687 | 3688 | 3689 | 3690 | 3691 | 3692 | 3693 |
| ## | 2 | 1 | 2 | 1 | 1 | 1 | 1 | 1 | 1 | 2 | 1 | 1 | 1 |

| | | | | | | | | | | | | | |
|----|------|------|------|------|------|------|------|------|------|------|------|------|------|
| ## | 3694 | 3695 | 3696 | 3697 | 3698 | 3699 | 3700 | 3701 | 3702 | 3703 | 3704 | 3705 | 3706 |
| ## | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
| ## | 3707 | 3708 | 3709 | 3710 | 3711 | 3712 | 3713 | 3714 | 3715 | 3716 | 3717 | 3718 | 3719 |
| ## | 1 | 1 | 1 | 1 | 1 | 1 | 2 | 2 | 1 | 1 | 1 | 1 | 1 |
| ## | 3720 | 3721 | 3723 | 3724 | 3725 | 3726 | 3727 | 3728 | 3729 | 3730 | 3731 | 3732 | 3733 |
| ## | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
| ## | 3734 | 3735 | 3736 | 3737 | 3738 | 3739 | 3740 | 3741 | 3742 | 3743 | 3744 | 3745 | 3746 |
| ## | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
| ## | 3747 | 3748 | 3749 | 3750 | 3751 | 3752 | 3753 | 3754 | 3755 | 3756 | 3757 | 3758 | 3759 |
| ## | 1 | 1 | 1 | 2 | 1 | 1 | 2 | 1 | 1 | 1 | 1 | 1 | 1 |
| ## | 3760 | 3761 | 3762 | 3763 | 3764 | 3765 | 3766 | 3767 | 3768 | 3769 | 3770 | 3771 | 3772 |
| ## | 2 | 1 | 1 | 1 | 1 | 1 | 2 | 1 | 1 | 1 | 1 | 1 | 1 |
| ## | 3773 | 3774 | 3775 | 3776 | 3777 | 3778 | 3779 | 3780 | 3781 | 3782 | 3783 | 3784 | 3785 |
| ## | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
| ## | 3786 | 3787 | 3788 | 3789 | 3790 | 3791 | 3792 | 3793 | 3794 | 3795 | 3796 | 3797 | 3798 |
| ## | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
| ## | 3799 | 3800 | 3801 | 3802 | 3803 | 3804 | 3805 | 3806 | 3807 | 3808 | 3809 | 3810 | 3811 |
| ## | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 2 | 2 | 1 | 1 | 1 |
| ## | 3812 | 3813 | 3814 | 3815 | 3816 | 3817 | 3818 | 3819 | 3820 | 3821 | 3822 | 3823 | 3824 |
| ## | 2 | 2 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 2 |
| ## | 3825 | 3826 | 3827 | 3828 | 3829 | 3830 | 3831 | 3832 | 3833 | 3834 | 3835 | 3836 | 3837 |
| ## | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
| ## | 3838 | 3839 | 3840 | 3841 | 3842 | 3843 | 3844 | 3845 | 3846 | 3847 | 3848 | 3849 | 3850 |
| ## | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
| ## | 3851 | 3852 | 3853 | 3854 | 3855 | 3856 | 3857 | 3858 | 3859 | 3860 | 3861 | 3862 | 3863 |
| ## | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
| ## | 3864 | 3865 | 3866 | 3867 | 3868 | 3869 | 3870 | 3871 | 3872 | 3873 | 3874 | 3875 | 3876 |
| ## | 2 | 2 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
| ## | 3877 | 3878 | 3879 | 3880 | 3881 | 3882 | 3883 | 3884 | 3885 | 3886 | 3887 | 3888 | 3889 |
| ## | 2 | 1 | 1 | 1 | 2 | 1 | 1 | 1 | 2 | 1 | 1 | 1 | 2 |
| ## | 3890 | 3891 | 3893 | 3894 | 3895 | 3896 | 3897 | 3898 | 3899 | 3900 | 3901 | 3902 | 3903 |
| ## | 2 | 1 | 1 | 1 | 1 | 1 | 2 | 2 | 1 | 1 | 1 | 1 | 1 |
| ## | 3904 | 3905 | 3906 | 3907 | 3908 | 3909 | 3910 | 3911 | 3912 | 3913 | 3914 | 3915 | 3916 |
| ## | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 2 | 1 | 1 | 1 | 1 |
| ## | 3917 | 3918 | 3919 | 3920 | 3921 | 3922 | 3923 | 3924 | 3925 | 3926 | 3927 | 3928 | 3929 |
| ## | 2 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
| ## | 3930 | 3931 | 3932 | 3933 | 3934 | 3935 | 3936 | 3937 | 3938 | 3939 | 3940 | 3941 | 3942 |
| ## | 1 | 2 | 1 | 1 | 1 | 1 | 1 | 2 | 1 | 1 | 1 | 1 | 1 |
| ## | 3943 | 3944 | 3945 | 3946 | 3947 | 3948 | 3949 | 3950 | 3951 | 3952 | 3953 | 3954 | 3955 |
| ## | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
| ## | 3956 | 3957 | 3958 | 3959 | 3960 | 3961 | 3962 | 3963 | 3964 | 3965 | 3966 | 3967 | 3968 |
| ## | 2 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 2 | 2 | 2 |
| ## | 3969 | 3970 | 3971 | 3972 | 3973 | 3974 | 3975 | 3976 | 3977 | 3978 | 3979 | 3980 | 3981 |
| ## | 1 | 2 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
| ## | 3982 | 3983 | 3984 | 3985 | 3986 | 3987 | 3988 | 3989 | 3990 | 3991 | 3992 | 3993 | 3994 |
| ## | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
| ## | 3995 | 3996 | 3997 | 3998 | 3999 | 4000 | 4001 | 4002 | 4003 | 4004 | 4005 | 4006 | 4007 |
| ## | 1 | 1 | 1 | 1 | 1 | 1 | 2 | 1 | 1 | 1 | 1 | 1 | 1 |
| ## | 4008 | 4009 | 4010 | 4011 | 4012 | 4013 | 4014 | 4015 | 4016 | 4017 | 4018 | 4019 | 4020 |
| ## | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
| ## | 4021 | 4022 | 4023 | 4024 | 4025 | 4026 | 4027 | 4028 | 4029 | 4030 | 4031 | 4032 | 4033 |
| ## | 1 | 1 | 1 | 2 | 1 | 1 | 2 | 2 | 1 | 1 | 2 | 1 | 1 |
| ## | 4034 | 4035 | 4036 | 4037 | 4038 | 4039 | 4040 | 4041 | 4042 | 4043 | 4044 | 4045 | 4046 |
| ## | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 |

| | | | | | | | | | | | | | |
|----|------|------|------|------|------|------|------|------|------|------|------|------|------|
| ## | 4047 | 4048 | 4049 | 4050 | 4051 | 4052 | 4053 | 4054 | 4055 | 4056 | 4057 | 4058 | 4059 |
| ## | 1 | 1 | 1 | 2 | 1 | 1 | 1 | 1 | 1 | 1 | 2 | 1 | 1 |
| ## | 4060 | 4061 | 4062 | 4063 | 4064 | 4065 | 4066 | 4067 | 4068 | 4069 | 4070 | 4071 | 4072 |
| ## | 1 | 1 | 2 | 2 | 1 | 1 | 1 | 2 | 1 | 1 | 1 | 1 | 1 |
| ## | 4073 | 4074 | 4075 | 4076 | 4077 | 4078 | 4079 | 4080 | 4081 | 4082 | 4083 | 4084 | 4085 |
| ## | 2 | 1 | 2 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
| ## | 4086 | 4087 | 4088 | 4089 | 4090 | 4091 | 4092 | 4093 | 4094 | 4095 | 4096 | 4097 | 4098 |
| ## | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
| ## | 4099 | 4100 | 4101 | 4102 | 4103 | 4104 | 4105 | 4106 | 4107 | 4108 | 4109 | 4110 | 4111 |
| ## | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 2 | 1 | 1 | 2 | 2 | 1 |
| ## | 4112 | 4113 | 4114 | 4115 | 4116 | 4117 | 4118 | 4119 | 4120 | 4121 | 4122 | 4123 | 4124 |
| ## | 1 | 2 | 1 | 2 | 2 | 1 | 1 | 1 | 2 | 2 | 1 | 1 | 1 |
| ## | 4125 | 4126 | 4127 | 4128 | 4129 | 4130 | 4131 | 4132 | 4133 | 4134 | 4135 | 4136 | 4137 |
| ## | 1 | 1 | 1 | 1 | 1 | 1 | 2 | 1 | 1 | 1 | 2 | 1 | 1 |
| ## | 4138 | 4139 | 4140 | 4141 | 4142 | 4143 | 4144 | 4145 | 4146 | 4147 | 4148 | 4149 | 4150 |
| ## | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 2 | 1 | 1 | 1 |
| ## | 4151 | 4152 | 4153 | 4154 | 4155 | 4156 | 4157 | 4158 | 4159 | 4160 | 4161 | 4162 | 4163 |
| ## | 2 | 1 | 1 | 1 | 1 | 1 | 1 | 2 | 1 | 1 | 1 | 1 | 2 |
| ## | 4165 | 4166 | 4167 | 4168 | 4169 | 4170 | 4171 | 4172 | 4173 | 4174 | 4175 | 4176 | 4177 |
| ## | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 2 | 1 | 1 | 1 |
| ## | 4178 | 4179 | 4180 | 4181 | 4182 | 4184 | 4185 | 4186 | 4187 | 4188 | 4189 | 4190 | 4191 |
| ## | 1 | 1 | 1 | 2 | 2 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
| ## | 4192 | 4193 | 4194 | 4195 | 4196 | 4197 | 4198 | 4199 | 4200 | 4201 | 4202 | 4203 | 4204 |
| ## | 1 | 1 | 2 | 1 | 1 | 1 | 1 | 1 | 2 | 1 | 1 | 1 | 1 |
| ## | 4205 | 4206 | 4207 | 4208 | 4209 | 4210 | 4211 | 4212 | 4213 | 4214 | 4215 | 4216 | 4217 |
| ## | 1 | 1 | 2 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
| ## | 4218 | 4219 | 4220 | 4221 | 4222 | 4223 | 4224 | 4225 | 4226 | 4227 | 4228 | 4229 | 4230 |
| ## | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 2 | 1 | 1 | 1 |
| ## | 4231 | 4233 | 4234 | 4235 | 4236 | 4237 | 4238 | 4239 | 4240 | 4241 | 4242 | 4243 | 4244 |
| ## | 2 | 1 | 1 | 2 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
| ## | 4245 | 4246 | 4247 | 4248 | 4249 | 4250 | 4251 | 4252 | 4253 | 4254 | 4255 | 4256 | 4257 |
| ## | 1 | 2 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 2 | 1 | 1 | 1 |
| ## | 4258 | 4259 | 4260 | 4261 | 4262 | 4263 | 4264 | 4265 | 4266 | 4267 | 4268 | 4269 | 4270 |
| ## | 2 | 1 | 1 | 2 | 1 | 1 | 2 | 1 | 1 | 1 | 1 | 2 | 1 |
| ## | 4271 | 4272 | 4273 | 4274 | 4275 | 4276 | 4277 | 4278 | 4279 | 4280 | 4281 | 4282 | 4283 |
| ## | 1 | 1 | 1 | 1 | 1 | 2 | 1 | 1 | 2 | 2 | 1 | 1 | 1 |
| ## | 4284 | 4285 | 4286 | 4287 | 4288 | 4289 | 4290 | 4291 | 4292 | 4293 | 4294 | 4295 | 4296 |
| ## | 1 | 1 | 2 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
| ## | 4297 | 4298 | 4299 | 4300 | 4301 | 4302 | 4303 | 4304 | 4305 | 4306 | 4307 | 4308 | 4309 |
| ## | 1 | 1 | 1 | 2 | 1 | 2 | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
| ## | 4310 | 4311 | 4312 | 4313 | 4314 | 4315 | 4316 | 4317 | 4318 | 4319 | 4320 | 4321 | 4322 |
| ## | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 2 | 1 | 1 | 1 | 1 | 2 |
| ## | 4323 | 4324 | 4325 | 4326 | 4327 | 4328 | 4329 | 4330 | 4331 | 4332 | 4333 | 4334 | 4335 |
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| ## | 4336 | 4337 | 4338 | 4339 | 4340 | 4341 | 4342 | 4343 | 4345 | 4346 | 4347 | 4348 | 4349 |
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| ## | 4350 | 4351 | 4352 | 4353 | 4354 | 4355 | 4356 | 4357 | 4358 | 4359 | 4360 | 4361 | 4362 |
| ## | 1 | 1 | 1 | 2 | 2 | 1 | 1 | 1 | 1 | 1 | 2 | 1 | 1 |
| ## | 4363 | 4364 | 4365 | 4366 | 4367 | 4368 | 4369 | 4370 | 4371 | 4372 | 4373 | 4374 | 4376 |
| ## | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 2 | 1 | 1 |
| ## | 4377 | 4378 | 4379 | 4380 | 4381 | 4382 | 4383 | 4384 | 4385 | 4386 | 4387 | 4388 | 4389 |
| ## | 1 | 1 | 2 | 1 | 1 | 2 | 1 | 1 | 2 | 1 | 1 | 1 | 1 |
| ## | 4390 | 4391 | 4392 | 4393 | 4394 | 4395 | 4396 | 4397 | 4398 | 4399 | 4400 | 4401 | 4402 |
| ## | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 2 | 2 | 1 | 1 | 2 |

| | | | | | | | | | | | | | |
|----|------|------|------|------|------|------|------|------|------|------|------|------|------|
| ## | 4403 | 4405 | 4406 | 4407 | 4408 | 4409 | 4410 | 4411 | 4412 | 4413 | 4414 | 4415 | 4416 |
| ## | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
| ## | 4417 | 4418 | 4419 | 4420 | 4421 | 4422 | 4423 | 4424 | 4425 | 4426 | 4428 | 4429 | 4430 |
| ## | 1 | 1 | 1 | 2 | 1 | 1 | 1 | 2 | 1 | 1 | 1 | 1 | 1 |
| ## | 4431 | 4432 | 4433 | 4434 | 4435 | 4436 | 4437 | 4438 | 4439 | 4440 | 4441 | 4442 | 4443 |
| ## | 1 | 1 | 2 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
| ## | 4444 | 4445 | 4446 | 4447 | 4448 | 4449 | 4450 | 4451 | 4452 | 4453 | 4454 | 4455 | 4456 |
| ## | 2 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
| ## | 4457 | 4458 | 4459 | 4460 | 4461 | 4462 | 4463 | 4465 | 4466 | 4467 | 4468 | 4469 | 4470 |
| ## | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
| ## | 4471 | 4472 | 4473 | 4474 | 4475 | 4476 | 4477 | 4478 | 4479 | 4480 | 4481 | 4482 | 4483 |
| ## | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
| ## | 4484 | 4485 | 4486 | 4487 | 4488 | 4489 | 4491 | 4492 | 4493 | 4494 | 4495 | 4496 | 4497 |
| ## | 1 | 1 | 2 | 1 | 1 | 1 | 1 | 1 | 1 | 2 | 1 | 1 | 2 |
| ## | 4498 | 4499 | 4500 | 4501 | 4502 | 4503 | 4504 | 4505 | 4506 | 4507 | 4508 | 4509 | 4510 |
| ## | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 2 |
| ## | 4511 | 4512 | 4513 | 4514 | 4515 | 4516 | 4517 | 4518 | 4519 | 4520 | 4521 | 4522 | 4523 |
| ## | 1 | 1 | 1 | 1 | 1 | 2 | 2 | 1 | 1 | 1 | 1 | 2 | 1 |
| ## | 4524 | 4525 | 4526 | 4527 | 4528 | 4529 | 4530 | 4531 | 4532 | 4533 | 4534 | 4535 | 4536 |
| ## | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
| ## | 4537 | 4538 | 4539 | 4540 | 4541 | 4542 | 4543 | 4544 | 4545 | 4546 | 4547 | 4548 | 4549 |
| ## | 1 | 1 | 1 | 1 | 2 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
| ## | 4550 | 4551 | 4552 | 4554 | 4555 | 4556 | 4557 | 4558 | 4559 | 4560 | 4561 | 4562 | 4563 |
| ## | 1 | 1 | 1 | 1 | 1 | 1 | 2 | 1 | 1 | 1 | 1 | 1 | 1 |
| ## | 4564 | 4565 | 4566 | 4567 | 4568 | 4569 | 4570 | 4571 | 4572 | 4573 | 4574 | 4575 | 4576 |
| ## | 1 | 1 | 1 | 1 | 1 | 2 | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
| ## | 4577 | 4578 | 4579 | 4580 | 4581 | 4582 | 4583 | 4584 | 4585 | 4586 | 4587 | 4588 | 4589 |
| ## | 2 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 2 | 1 | 1 | 1 |
| ## | 4590 | 4591 | 4592 | 4593 | 4594 | 4595 | 4596 | 4597 | 4598 | 4599 | 4600 | 4601 | 4602 |
| ## | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 2 |
| ## | 4603 | 4604 | 4605 | 4606 | 4607 | 4608 | 4609 | 4610 | 4611 | 4612 | 4613 | 4614 | 4615 |
| ## | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
| ## | 4616 | 4617 | 4618 | 4619 | 4620 | 4621 | 4622 | 4623 | 4624 | 4625 | 4626 | 4627 | 4628 |
| ## | 1 | 2 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
| ## | 4629 | 4630 | 4631 | 4632 | 4633 | 4634 | 4635 | 4636 | 4637 | 4638 | 4639 | 4640 | 4641 |
| ## | 1 | 2 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
| ## | 4642 | 4643 | 4644 | 4645 | 4646 | 4647 | 4648 | 4649 | 4650 | 4651 | 4652 | 4653 | 4654 |
| ## | 1 | 2 | 1 | 1 | 2 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
| ## | 4655 | 4656 | 4657 | 4658 | 4659 | 4660 | 4661 | 4662 | 4663 | 4664 | 4665 | 4666 | 4667 |
| ## | 1 | 2 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 2 | 1 | 1 |
| ## | 4668 | 4669 | 4670 | 4671 | 4672 | 4673 | 4674 | 4675 | 4676 | 4677 | 4678 | 4679 | 4680 |
| ## | 1 | 1 | 1 | 2 | 1 | 1 | 1 | 2 | 1 | 1 | 1 | 1 | 1 |
| ## | 4681 | 4682 | 4683 | 4684 | 4685 | 4686 | 4687 | 4688 | 4689 | 4690 | 4691 | 4692 | 4693 |
| ## | 1 | 2 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
| ## | 4694 | 4695 | 4696 | 4697 | 4698 | 4699 | 4700 | 4701 | 4702 | 4703 | 4704 | 4705 | 4706 |
| ## | 1 | 1 | 1 | 1 | 2 | 1 | 1 | 2 | 1 | 1 | 1 | 1 | 1 |
| ## | 4707 | 4708 | 4709 | 4710 | 4711 | 4712 | 4713 | 4714 | 4715 | 4716 | 4717 | 4718 | 4719 |
| ## | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
| ## | 4720 | 4721 | 4722 | 4723 | 4724 | 4725 | 4726 | 4727 | 4728 | 4729 | 4730 | 4731 | 4732 |
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| ## | 4733 | 4734 | 4735 | 4736 | 4737 | 4738 | 4739 | 4740 | 4741 | 4742 | 4743 | 4744 | 4745 |
| ## | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
| ## | 4746 | 4747 | 4748 | 4749 | 4750 | 4751 | 4752 | 4753 | 4754 | 4755 | 4756 | 4757 | 4758 |
| ## | 1 | 1 | 1 | 1 | 2 | 1 | 2 | 1 | 1 | 1 | 1 | 1 | 1 |

| | | | | | | | | | | | | | |
|----|------|------|------|------|------|------|------|------|------|------|------|------|------|
| ## | 4759 | 4760 | 4761 | 4762 | 4763 | 4764 | 4765 | 4766 | 4767 | 4768 | 4769 | 4770 | 4771 |
| ## | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 2 | 1 |
| ## | 4772 | 4773 | 4774 | 4775 | 4776 | 4777 | 4778 | 4779 | 4780 | 4781 | 4782 | 4783 | 4784 |
| ## | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 2 | 1 | 2 | 1 | 1 | 1 |
| ## | 4785 | 4786 | 4787 | 4788 | 4789 | 4790 | 4791 | 4792 | 4793 | 4794 | 4795 | 4796 | 4797 |
| ## | 1 | 1 | 1 | 1 | 2 | 1 | 1 | 1 | 1 | 2 | 1 | 1 | 1 |
| ## | 4798 | 4799 | 4800 | 4801 | 4802 | 4803 | 4804 | 4805 | 4806 | 4807 | 4808 | 4809 | 4810 |
| ## | 1 | 1 | 1 | 1 | 1 | 2 | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
| ## | 4811 | 4812 | 4813 | 4814 | 4815 | 4816 | 4817 | 4819 | 4820 | 4821 | 4822 | 4823 | 4824 |
| ## | 1 | 1 | 1 | 1 | 1 | 1 | 2 | 1 | 1 | 1 | 2 | 1 | 1 |
| ## | 4825 | 4826 | 4827 | 4828 | 4829 | 4830 | 4831 | 4832 | 4833 | 4834 | 4835 | 4836 | 4837 |
| ## | 1 | 1 | 1 | 1 | 2 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
| ## | 4838 | 4839 | 4840 | 4841 | 4842 | 4843 | 4844 | 4845 | 4846 | 4847 | 4848 | 4849 | 4850 |
| ## | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
| ## | 4851 | 4852 | 4853 | 4854 | 4855 | 4856 | 4857 | 4858 | 4859 | 4860 | 4861 | 4862 | 4863 |
| ## | 2 | 1 | 1 | 1 | 2 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
| ## | 4864 | 4865 | 4866 | 4867 | 4868 | 4869 | 4870 | 4871 | 4872 | 4873 | 4874 | 4875 | 4876 |
| ## | 1 | 1 | 1 | 1 | 1 | 1 | 2 | 2 | 2 | 1 | 1 | 1 | 1 |
| ## | 4877 | 4878 | 4879 | 4880 | 4881 | 4882 | 4883 | 4885 | 4886 | 4887 | 4888 | 4889 | 4890 |
| ## | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 2 | 1 | 1 | 1 | 1 | 2 |
| ## | 4891 | 4892 | 4893 | 4894 | 4895 | 4896 | 4897 | 4898 | 4899 | 4900 | 4901 | 4902 | 4903 |
| ## | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 2 | 1 | 1 | 1 | 1 | 1 |
| ## | 4904 | 4905 | 4906 | 4907 | 4908 | 4909 | 4910 | 4911 | 4912 | 4913 | 4915 | 4916 | 4917 |
| ## | 2 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
| ## | 4918 | 4919 | 4920 | 4921 | 4922 | 4923 | 4924 | 4925 | 4926 | 4927 | 4928 | 4929 | 4930 |
| ## | 1 | 1 | 1 | 2 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
| ## | 4931 | 4932 | 4933 | 4934 | 4935 | 4936 | 4937 | 4938 | 4939 | 4940 | 4941 | 4942 | 4943 |
| ## | 1 | 1 | 1 | 2 | 1 | 1 | 2 | 2 | 1 | 1 | 1 | 1 | 1 |
| ## | 4944 | 4945 | 4946 | 4947 | 4948 | 4949 | 4950 | 4951 | 4952 | 4953 | 4954 | 4955 | 4956 |
| ## | 1 | 1 | 1 | 1 | 1 | 1 | 2 | 2 | 1 | 1 | 2 | 1 | 1 |
| ## | 4957 | 4958 | 4959 | 4960 | 4961 | 4962 | 4963 | 4964 | 4965 | 4966 | 4967 | 4968 | 4969 |
| ## | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
| ## | 4970 | 4971 | 4972 | 4973 | 4974 | 4975 | 4976 | 4977 | 4978 | 4979 | 4980 | 4981 | 4982 |
| ## | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
| ## | 4983 | 4984 | 4985 | 4986 | 4987 | 4988 | 4989 | 4990 | 4991 | 4992 | 4993 | 4994 | 4995 |
| ## | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 2 | 2 | 1 |
| ## | 4996 | 4997 | 4998 | 4999 | 5000 | 5001 | 5002 | 5003 | 5004 | 5005 | 5006 | 5007 | 5008 |
| ## | 1 | 1 | 1 | 2 | 1 | 1 | 1 | 1 | 1 | 2 | 1 | 1 | 1 |
| ## | 5009 | 5010 | 5011 | 5012 | 5013 | 5014 | 5015 | 5016 | 5017 | 5018 | 5019 | 5020 | 5021 |
| ## | 1 | 2 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
| ## | 5022 | 5023 | 5024 | 5025 | 5026 | 5027 | 5028 | 5029 | 5030 | 5031 | 5032 | 5033 | 5034 |
| ## | 1 | 1 | 1 | 1 | 1 | 1 | 2 | 2 | 1 | 2 | 2 | 1 | 1 |
| ## | 5035 | 5036 | 5037 | 5038 | 5040 | 5041 | 5042 | 5043 | 5045 | 5046 | 5047 | 5048 | 5049 |
| ## | 1 | 1 | 1 | 1 | 2 | 1 | 1 | 1 | 1 | 2 | 1 | 1 | 1 |
| ## | 5050 | 5051 | 5052 | 5053 | 5054 | 5055 | 5056 | 5058 | 5059 | 5060 | 5061 | 5062 | 5063 |
| ## | 1 | 1 | 2 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
| ## | 5064 | 5065 | 5066 | 5067 | 5068 | 5069 | 5070 | 5071 | 5072 | 5073 | 5074 | 5075 | 5076 |
| ## | 1 | 1 | 1 | 1 | 2 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
| ## | 5077 | 5078 | 5079 | 5080 | 5081 | 5082 | 5083 | 5084 | 5085 | 5086 | 5087 | 5088 | 5089 |
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| ## | 5090 | 5091 | 5092 | 5093 | 5094 | 5095 | 5096 | 5097 | 5098 | 5099 | 5100 | 5101 | 5102 |
| ## | 1 | 2 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
| ## | 5103 | 5104 | 5105 | 5106 | 5107 | 5108 | 5109 | 5110 | 5111 | 5112 | 5113 | 5114 | 5115 |
| ## | 2 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 2 | 1 | 1 | 1 |

| | | | | | | | | | | | | | |
|----|------|------|------|------|------|------|------|------|------|------|------|------|------|
| ## | 5116 | 5117 | 5118 | 5120 | 5121 | 5122 | 5123 | 5124 | 5125 | 5126 | 5127 | 5128 | 5129 |
| ## | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
| ## | 5130 | 5131 | 5132 | 5133 | 5134 | 5135 | 5136 | 5137 | 5138 | 5139 | 5140 | 5141 | 5142 |
| ## | 1 | 2 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
| ## | 5143 | 5144 | 5145 | 5146 | 5147 | 5148 | 5149 | 5150 | 5151 | 5152 | 5153 | 5154 | 5155 |
| ## | 1 | 1 | 1 | 2 | 2 | 1 | 1 | 1 | 1 | 1 | 2 | 2 | 1 |
| ## | 5156 | 5157 | 5158 | 5159 | 5160 | 5161 | 5162 | 5163 | 5164 | 5165 | 5166 | 5167 | 5168 |
| ## | 1 | 1 | 1 | 1 | 1 | 1 | 2 | 1 | 1 | 1 | 1 | 1 | 1 |
| ## | 5169 | 5170 | 5171 | 5172 | 5173 | 5174 | 5175 | 5176 | 5177 | 5178 | 5179 | 5180 | 5181 |
| ## | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 2 | 1 | 1 |
| ## | 5182 | 5183 | 5184 | 5185 | 5186 | 5187 | 5188 | 5189 | 5190 | 5191 | 5192 | 5193 | 5194 |
| ## | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 2 | 1 | 1 | 1 | 1 | 1 |
| ## | 5195 | 5196 | 5197 | 5198 | 5201 | 5202 | 5203 | 5204 | 5205 | 5206 | 5207 | 5208 | 5209 |
| ## | 2 | 2 | 1 | 1 | 1 | 1 | 1 | 2 | 1 | 1 | 1 | 2 | 1 |
| ## | 5210 | 5211 | 5212 | 5213 | 5214 | 5215 | 5216 | 5217 | 5218 | 5219 | 5220 | 5221 | 5222 |
| ## | 1 | 1 | 1 | 1 | 1 | 1 | 2 | 1 | 2 | 1 | 1 | 1 | 1 |
| ## | 5223 | 5224 | 5225 | 5226 | 5227 | 5228 | 5229 | 5230 | 5231 | 5232 | 5233 | 5234 | 5235 |
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| ## | 5236 | 5237 | 5238 | 5239 | 5240 | 5241 | 5242 | 5243 | 5244 | 5245 | 5246 | 5247 | 5248 |
| ## | 1 | 1 | 2 | 1 | 2 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
| ## | 5249 | 5250 | 5251 | 5252 | 5253 | 5254 | 5256 | 5257 | 5258 | 5259 | 5260 | 5261 | 5262 |
| ## | 1 | 1 | 1 | 2 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 2 |
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| ## | 5291 | 5292 | 5293 | 5294 | 5295 | 5296 | 5297 | 5298 | 5299 | 5300 | 5301 | 5302 | 5303 |
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| ## | 5304 | 5305 | 5306 | 5307 | 5308 | 5309 | 5310 | 5311 | 5312 | 5313 | 5314 | 5315 | 5316 |
| ## | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
| ## | 5317 | 5318 | 5319 | 5320 | 5321 | 5322 | 5323 | 5324 | 5325 | 5326 | 5327 | 5328 | 5329 |
| ## | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
| ## | 5330 | 5331 | 5332 | 5333 | 5334 | 5335 | 5336 | 5337 | 5338 | 5339 | 5340 | 5341 | 5342 |
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| ## | 5343 | 5344 | 5345 | 5346 | 5347 | 5348 | 5349 | 5350 | 5351 | 5352 | 5353 | 5354 | 5355 |
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| ## | 5357 | 5358 | 5359 | 5360 | 5361 | 5362 | 5363 | 5364 | 5365 | 5366 | 5367 | 5368 | 5369 |
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| ## | 5370 | 5371 | 5372 | 5373 | 5374 | 5375 | 5376 | 5377 | 5378 | 5379 | 5380 | 5381 | 5382 |
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| ## | 5383 | 5384 | 5385 | 5386 | 5387 | 5388 | 5389 | 5390 | 5391 | 5392 | 5393 | 5394 | 5395 |
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| ## | 5396 | 5397 | 5398 | 5399 | 5400 | 5401 | 5402 | 5403 | 5404 | 5405 | 5406 | 5407 | 5409 |
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| ## | 5410 | 5411 | 5412 | 5413 | 5414 | 5415 | 5416 | 5417 | 5418 | 5419 | 5420 | 5421 | 5422 |
| ## | 1 | 2 | 1 | 1 | 2 | 1 | 1 | 1 | 1 | 1 | 2 | 1 | 1 |
| ## | 5423 | 5424 | 5425 | 5426 | 5427 | 5428 | 5429 | 5430 | 5431 | 5432 | 5433 | 5434 | 5435 |
| ## | 1 | 1 | 1 | 2 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 2 |
| ## | 5436 | 5437 | 5438 | 5439 | 5440 | 5441 | 5442 | 5443 | 5444 | 5445 | 5446 | 5447 | 5448 |
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| ## | 5462 | 5463 | 5464 | 5465 | 5466 | 5467 | 5468 | 5469 | 5470 | 5471 | 5472 | 5473 | 5474 |
| ## | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 2 | 1 | 1 | 1 | 1 | 2 |

| | | | | | | | | | | | | | |
|----|------|------|------|------|------|------|------|------|------|------|------|------|------|
| ## | 5475 | 5476 | 5477 | 5478 | 5479 | 5480 | 5481 | 5482 | 5483 | 5484 | 5485 | 5486 | 5487 |
| ## | 1 | 2 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
| ## | 5488 | 5489 | 5490 | 5491 | 5492 | 5493 | 5494 | 5495 | 5496 | 5497 | 5498 | 5499 | 5500 |
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| ## | 5501 | 5502 | 5503 | 5504 | 5505 | 5506 | 5507 | 5508 | 5509 | 5510 | 5511 | 5512 | 5513 |
| ## | 2 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 2 | 1 | 1 | 2 |
| ## | 5514 | 5515 | 5516 | 5517 | 5518 | 5519 | 5520 | 5521 | 5522 | 5523 | 5524 | 5525 | 5526 |
| ## | 1 | 1 | 1 | 1 | 2 | 1 | 2 | 1 | 1 | 1 | 2 | 1 | 1 |
| ## | 5527 | 5528 | 5529 | 5530 | 5531 | 5532 | 5533 | 5534 | 5535 | 5536 | 5537 | 5538 | 5539 |
| ## | 2 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 2 | 1 | 1 |
| ## | 5540 | 5541 | 5542 | 5543 | 5544 | 5545 | 5546 | 5547 | 5548 | 5549 | 5550 | 5551 | 5552 |
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| ## | 5553 | 5554 | 5555 | 5556 | 5557 | 5558 | 5559 | 5560 | 5561 | 5562 | 5563 | 5564 | 5565 |
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| ## | 5566 | 5567 | 5568 | 5569 | 5570 | 5571 | 5572 | 5573 | 5574 | 5575 | 5576 | 5577 | 5578 |
| ## | 1 | 1 | 1 | 1 | 2 | 1 | 2 | 1 | 1 | 1 | 2 | 1 | 1 |
| ## | 5579 | 5580 | 5581 | 5582 | 5583 | 5584 | 5585 | 5586 | 5587 | 5588 | 5589 | 5590 | 5591 |
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| ## | 1 | 1 | 1 | 1 | 1 | 2 | 2 | 1 | 1 | 2 | 1 | 1 | 1 |
| ## | 5605 | 5606 | 5607 | 5608 | 5609 | 5610 | 5611 | 5612 | 5613 | 5614 | 5615 | 5616 | 5617 |
| ## | 1 | 1 | 1 | 1 | 2 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
| ## | 5618 | 5619 | 5620 | 5621 | 5622 | 5623 | 5624 | 5625 | 5626 | 5627 | 5628 | 5629 | 5630 |
| ## | 2 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
| ## | 5631 | 5632 | 5633 | 5634 | 5635 | 5636 | 5637 | 5638 | 5639 | 5640 | 5641 | 5642 | 5643 |
| ## | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 2 | 1 | 2 | 1 | 1 | 1 |
| ## | 5644 | 5645 | 5646 | 5647 | 5648 | 5649 | 5650 | 5651 | 5652 | 5653 | 5654 | 5655 | 5656 |
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| ## | 5657 | 5658 | 5659 | 5660 | 5661 | 5662 | 5663 | 5664 | 5665 | 5666 | 5667 | 5668 | 5669 |
| ## | 1 | 1 | 2 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 2 | 1 |
| ## | 5670 | 5671 | 5672 | 5673 | 5674 | 5675 | 5676 | 5677 | 5678 | 5679 | 5680 | 5681 | 5682 |
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| ## | 5683 | 5684 | 5685 | 5686 | 5687 | 5688 | 5689 | 5690 | 5691 | 5692 | 5693 | 5694 | 5695 |
| ## | 1 | 1 | 2 | 1 | 1 | 1 | 1 | 2 | 2 | 1 | 1 | 1 | 1 |
| ## | 5696 | 5697 | 5698 | 5699 | 5700 | 5701 | 5702 | 5703 | 5704 | 5705 | 5706 | 5707 | 5708 |
| ## | 1 | 1 | 1 | 2 | 1 | 1 | 1 | 1 | 2 | 1 | 1 | 1 | 2 |
| ## | 5709 | 5710 | 5711 | 5712 | 5713 | 5714 | 5715 | 5716 | 5717 | 5718 | 5719 | 5720 | 5721 |
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| ## | 5722 | 5723 | 5724 | 5725 | 5726 | 5727 | 5728 | 5729 | 5730 | 5731 | 5732 | 5733 | 5734 |
| ## | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 2 | 1 | 1 | 1 |
| ## | 5735 | 5736 | 5737 | 5738 | 5739 | 5740 | 5741 | 5742 | 5743 | 5744 | 5745 | 5746 | 5747 |
| ## | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
| ## | 5748 | 5749 | 5750 | 5751 | 5752 | 5753 | 5754 | 5755 | 5756 | 5757 | 5758 | 5759 | 5760 |
| ## | 1 | 1 | 1 | 1 | 2 | 1 | 1 | 2 | 2 | 2 | 1 | 2 | 1 |
| ## | 5761 | 5762 | 5763 | 5764 | 5765 | 5766 | 5767 | 5768 | 5769 | 5770 | 5771 | 5772 | 5773 |
| ## | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 2 | 1 | 1 | 1 | 1 |
| ## | 5774 | 5775 | 5776 | 5777 | 5778 | 5779 | 5780 | 5781 | 5782 | 5783 | 5784 | 5785 | 5786 |
| ## | 2 | 1 | 1 | 2 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
| ## | 5787 | 5788 | 5789 | 5790 | 5791 | 5792 | 5793 | 5794 | 5795 | 5796 | 5797 | 5798 | 5799 |
| ## | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 2 | 1 | 1 |
| ## | 5800 | 5801 | 5802 | 5803 | 5804 | 5805 | 5806 | 5807 | 5808 | 5809 | 5810 | 5811 | 5812 |
| ## | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 2 | 1 | 2 | 1 | 1 |
| ## | 5813 | 5814 | 5815 | 5816 | 5817 | 5818 | 5819 | 5820 | 5821 | 5822 | 5823 | 5824 | 5825 |
| ## | 2 | 1 | 1 | 2 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 2 | 1 |

| | | | | | | | | | | | | | |
|----|------|------|------|------|------|------|------|------|------|------|------|------|------|
| ## | 5826 | 5827 | 5828 | 5829 | 5830 | 5831 | 5832 | 5833 | 5834 | 5835 | 5836 | 5837 | 5838 |
| ## | 1 | 1 | 2 | 1 | 2 | 1 | 1 | 1 | 1 | 1 | 1 | 2 | 1 |
| ## | 5839 | 5840 | 5841 | 5842 | 5843 | 5844 | 5845 | 5846 | 5847 | 5848 | 5849 | 5850 | 5851 |
| ## | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 2 | 2 | 1 | 1 | 1 | 1 |
| ## | 5852 | 5853 | 5854 | 5855 | 5856 | 5857 | 5858 | 5859 | 5860 | 5861 | 5862 | 5863 | 5864 |
| ## | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 2 | 1 | 1 |
| ## | 5865 | 5866 | 5867 | 5868 | 5869 | 5870 | 5871 | 5872 | 5873 | 5874 | 5875 | 5876 | 5877 |
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| ## | 5891 | 5892 | 5893 | 5894 | 5895 | 5896 | 5897 | 5898 | 5899 | 5900 | 5901 | 5902 | 5903 |
| ## | 1 | 2 | 1 | 2 | 1 | 2 | 1 | 1 | 1 | 1 | 2 | 1 | 2 |
| ## | 5904 | 5905 | 5906 | 5907 | 5908 | 5909 | 5910 | 5911 | 5912 | 5913 | 5914 | 5915 | 5916 |
| ## | 1 | 1 | 1 | 1 | 1 | 2 | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
| ## | 5917 | 5918 | 5919 | 5920 | 5921 | 5922 | 5923 | 5924 | 5925 | 5926 | 5927 | 5928 | 5929 |
| ## | 2 | 2 | 2 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 2 | 1 | 1 |
| ## | 5930 | 5931 | 5932 | 5933 | 5934 | 5935 | 5936 | 5937 | 5938 | 5939 | 5940 | 5941 | 5942 |
| ## | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 2 | 1 | 2 | 1 | 1 |
| ## | 5943 | 5944 | 5945 | 5946 | 5947 | 5948 | 5949 | 5950 | 5951 | 5952 | 5953 | 5954 | 5955 |
| ## | 2 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 2 | 1 | 1 |
| ## | 5956 | 5957 | 5958 | 5959 | 5960 | 5961 | 5962 | 5963 | 5964 | 5965 | 5966 | 5967 | 5968 |
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| ## | 5969 | 5970 | 5971 | 5972 | 5973 | 5974 | 5975 | 5976 | 5977 | 5978 | 5979 | 5980 | 5981 |
| ## | 1 | 1 | 1 | 2 | 1 | 1 | 1 | 1 | 1 | 1 | 2 | 1 | 1 |
| ## | 5982 | 5983 | 5984 | 5985 | 5986 | 5987 | 5988 | 5989 | 5990 | 5991 | 5992 | 5993 | 5994 |
| ## | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 2 | 1 | 1 | 2 |
| ## | 5995 | 5996 | 5997 | 5998 | 5999 | 6000 | 6001 | 6002 | 6003 | 6004 | 6005 | 6006 | 6007 |
| ## | 1 | 1 | 2 | 1 | 2 | 1 | 1 | 1 | 1 | 1 | 1 | 2 | 1 |
| ## | 6008 | 6009 | 6010 | 6011 | 6012 | 6013 | 6014 | 6015 | 6016 | 6017 | 6018 | 6019 | 6020 |
| ## | 1 | 1 | 1 | 1 | 2 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
| ## | 6021 | 6022 | 6023 | 6024 | 6025 | 6026 | 6027 | 6028 | 6029 | 6030 | 6031 | 6032 | 6033 |
| ## | 2 | 1 | 2 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 2 | 1 | 1 |
| ## | 6034 | 6035 | 6036 | 6037 | 6038 | 6039 | 6040 | 6041 | 6042 | 6043 | 6044 | 6045 | 6046 |
| ## | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
| ## | 6047 | 6048 | 6049 | 6050 | 6051 | 6052 | 6053 | 6054 | 6055 | 6056 | 6057 | 6058 | 6059 |
| ## | 2 | 1 | 1 | 1 | 1 | 2 | 1 | 2 | 1 | 1 | 1 | 1 | 1 |
| ## | 6060 | 6061 | 6062 | 6063 | 6064 | 6065 | 6066 | 6067 | 6068 | 6069 | 6070 | 6071 | 6072 |
| ## | 2 | 1 | 1 | 1 | 2 | 1 | 1 | 2 | 2 | 1 | 1 | 1 | 1 |
| ## | 6073 | 6074 | 6075 | 6076 | 6077 | 6078 | 6079 | 6080 | 6081 | 6082 | 6083 | 6084 | 6085 |
| ## | 2 | 1 | 2 | 1 | 1 | 1 | 1 | 1 | 2 | 1 | 2 | 1 | 1 |
| ## | 6086 | 6087 | 6088 | 6089 | 6090 | 6091 | 6092 | 6093 | 6094 | 6095 | 6096 | 6097 | 6098 |
| ## | 1 | 2 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
| ## | 6099 | 6100 | 6101 | 6102 | 6103 | 6104 | 6105 | 6106 | 6107 | 6108 | 6109 | 6110 | 6111 |
| ## | 2 | 1 | 1 | 1 | 2 | 2 | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
| ## | 6112 | 6113 | 6114 | 6115 | 6116 | 6117 | 6118 | 6119 | 6120 | 6121 | 6122 | 6123 | 6124 |
| ## | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
| ## | 6125 | 6126 | 6127 | 6128 | 6129 | 6130 | 6131 | 6132 | 6133 | 6134 | 6135 | 6136 | 6137 |
| ## | 2 | 1 | 1 | 2 | 1 | 1 | 1 | 1 | 1 | 2 | 1 | 1 | 2 |
| ## | 6138 | 6139 | 6140 | 6141 | 6142 | 6143 | 6144 | 6145 | 6146 | 6147 | 6148 | 6149 | 6150 |
| ## | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 2 | 1 | 1 | 1 | 1 | 1 |
| ## | 6151 | 6152 | 6153 | 6154 | 6155 | 6156 | 6157 | 6158 | 6159 | 6160 | 6161 | 6162 | 6163 |
| ## | 1 | 2 | 2 | 1 | 1 | 1 | 1 | 1 | 1 | 2 | 1 | 2 | 1 |
| ## | 6164 | 6165 | 6166 | 6167 | 6168 | 6169 | 6170 | 6171 | 6172 | 6173 | 6174 | 6175 | 6176 |
| ## | 1 | 1 | 2 | 2 | 2 | 1 | 1 | 2 | 1 | 1 | 2 | 1 | 1 |

| | | | | | | | | | | | | | |
|----|------|------|------|------|------|------|------|------|------|------|------|------|------|
| ## | 6177 | 6178 | 6179 | 6180 | 6181 | 6182 | 6183 | 6184 | 6185 | 6186 | 6187 | 6188 | 6189 |
| ## | 1 | 1 | 2 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
| ## | 6190 | 6191 | 6192 | 6193 | 6194 | 6195 | 6196 | 6197 | 6198 | 6199 | 6200 | 6201 | 6202 |
| ## | 1 | 2 | 2 | 1 | 1 | 2 | 1 | 1 | 1 | 1 | 2 | 1 | 1 |
| ## | 6203 | 6204 | 6205 | 6206 | 6207 | 6208 | 6209 | 6210 | 6211 | 6212 | 6213 | 6214 | 6215 |
| ## | 1 | 1 | 2 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 2 | 2 |
| ## | 6216 | 6217 | 6218 | 6219 | 6220 | 6221 | 6222 | 6223 | 6224 | 6225 | 6226 | 6227 | 6228 |
| ## | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
| ## | 6229 | 6230 | 6231 | 6232 | 6233 | 6234 | 6235 | 6236 | 6237 | 6238 | 6239 | 6240 | 6241 |
| ## | 2 | 2 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 2 |
| ## | 6242 | 6243 | 6244 | 6245 | 6246 | 6247 | 6248 | 6249 | 6250 | 6251 | 6252 | 6253 | 6254 |
| ## | 2 | 1 | 2 | 1 | 1 | 1 | 1 | 2 | 1 | 1 | 1 | 2 | 2 |
| ## | 6255 | 6256 | 6257 | 6258 | 6259 | 6260 | 6261 | 6262 | 6263 | 6264 | 6265 | 6266 | 6267 |
| ## | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 2 | 1 | 1 | 1 | 1 | 1 |
| ## | 6268 | 6269 | 6270 | 6271 | 6272 | 6273 | 6274 | 6275 | 6276 | 6277 | 6278 | 6279 | 6280 |
| ## | 1 | 1 | 1 | 1 | 2 | 1 | 2 | 1 | 1 | 1 | 2 | 2 | 1 |
| ## | 6281 | 6282 | 6283 | 6284 | 6285 | 6286 | 6287 | 6288 | 6289 | 6290 | 6291 | 6292 | 6293 |
| ## | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 2 | 1 | 1 | 1 | 1 |
| ## | 6294 | 6295 | 6296 | 6297 | 6298 | 6299 | 6300 | 6301 | 6302 | 6303 | 6304 | 6305 | 6306 |
| ## | 1 | 1 | 1 | 2 | 2 | 1 | 1 | 1 | 2 | 1 | 2 | 2 | 1 |
| ## | 6307 | 6308 | 6309 | 6310 | 6311 | 6312 | 6313 | 6314 | 6315 | 6316 | 6317 | 6318 | 6319 |
| ## | 2 | 1 | 1 | 1 | 1 | 2 | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
| ## | 6320 | 6321 | 6322 | 6323 | 6324 | 6325 | 6326 | 6327 | 6328 | 6329 | 6330 | 6331 | 6332 |
| ## | 1 | 1 | 1 | 2 | 1 | 2 | 1 | 1 | 1 | 2 | 1 | 1 | 1 |
| ## | 6333 | 6334 | 6335 | 6336 | 6337 | 6338 | 6339 | 6340 | 6341 | 6342 | 6343 | 6344 | 6345 |
| ## | 2 | 1 | 1 | 2 | 1 | 2 | 1 | 1 | 1 | 2 | 1 | 1 | 1 |
| ## | 6346 | 6347 | 6348 | 6349 | 6350 | 6351 | 6352 | 6353 | 6354 | 6355 | 6356 | 6357 | 6358 |
| ## | 1 | 1 | 2 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
| ## | 6359 | 6360 | 6361 | 6362 | 6363 | 6364 | 6365 | 6366 | 6367 | 6368 | 6369 | 6370 | 6371 |
| ## | 1 | 1 | 1 | 1 | 2 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 2 |
| ## | 6372 | 6373 | 6374 | 6375 | 6376 | 6377 | 6378 | 6379 | 6380 | 6381 | 6382 | 6383 | 6384 |
| ## | 2 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
| ## | 6385 | 6386 | 6387 | 6388 | 6389 | 6390 | 6391 | 6392 | 6393 | 6394 | 6395 | 6396 | 6397 |
| ## | 1 | 1 | 1 | 1 | 1 | 2 | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
| ## | 6398 | 6399 | 6400 | 6401 | 6402 | 6403 | 6404 | 6405 | 6406 | 6407 | 6408 | 6409 | 6410 |
| ## | 1 | 1 | 1 | 1 | 1 | 1 | 2 | 1 | 1 | 1 | 1 | 1 | 1 |
| ## | 6411 | 6412 | 6413 | 6414 | 6415 | 6416 | 6417 | 6418 | 6419 | 6420 | 6421 | 6422 | 6423 |
| ## | 1 | 1 | 1 | 2 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 2 | 2 |
| ## | 6424 | 6425 | 6426 | 6427 | 6428 | 6429 | 6430 | 6431 | 6432 | 6433 | 6434 | 6435 | 6436 |
| ## | 1 | 1 | 2 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
| ## | 6437 | 6438 | 6439 | 6440 | 6441 | 6442 | 6443 | 6444 | 6445 | 6446 | 6447 | 6448 | 6449 |
| ## | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 2 | 1 | 1 | 1 | 1 |
| ## | 6450 | 6451 | 6452 | 6453 | 6454 | 6455 | 6456 | 6457 | 6458 | 6459 | 6460 | 6461 | 6462 |
| ## | 1 | 1 | 1 | 2 | 1 | 2 | 1 | 1 | 2 | 1 | 1 | 1 | 1 |
| ## | 6463 | 6464 | 6465 | 6466 | 6467 | 6468 | 6469 | 6470 | 6471 | 6472 | 6473 | 6474 | 6475 |
| ## | 2 | 1 | 1 | 1 | 1 | 2 | 1 | 1 | 1 | 1 | 1 | 2 | 2 |
| ## | 6476 | 6477 | 6478 | 6479 | 6480 | 6481 | 6482 | 6483 | 6484 | 6485 | 6486 | 6487 | 6488 |
| ## | 1 | 2 | 2 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 2 |
| ## | 6489 | 6490 | 6491 | 6492 | 6493 | 6494 | 6495 | 6496 | 6497 | 6498 | 6499 | 6500 | 6501 |
| ## | 2 | 1 | 2 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 2 | 1 |
| ## | 6502 | 6503 | 6504 | 6505 | 6506 | 6507 | 6508 | 6509 | 6510 | 6511 | 6512 | 6513 | 6514 |
| ## | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 2 | 1 | 2 |
| ## | 6515 | 6516 | 6517 | 6518 | 6519 | 6520 | 6521 | 6522 | 6523 | 6524 | 6525 | 6526 | 6527 |
| ## | 1 | 1 | 1 | 1 | 1 | 2 | 2 | 1 | 1 | 1 | 1 | 1 | 1 |

| | | | | | | | | | | | | | |
|----|------|------|------|------|------|------|------|------|------|------|------|------|------|
| ## | 6528 | 6529 | 6530 | 6531 | 6532 | 6533 | 6534 | 6535 | 6536 | 6537 | 6538 | 6539 | 6540 |
| ## | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 2 | 1 | 1 | 1 | 1 | 1 |
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| ## | 1 | 1 | 1 | 1 | 1 | 2 | 1 | 1 | 1 | 2 | 2 | 1 | 1 |
| ## | 6554 | 6555 | 6556 | 6557 | 6558 | 6559 | 6560 | 6561 | 6562 | 6563 | 6564 | 6565 | 6566 |
| ## | 1 | 1 | 1 | 1 | 1 | 1 | 2 | 1 | 1 | 1 | 1 | 1 | 1 |
| ## | 6567 | 6568 | 6569 | 6570 | 6571 | 6572 | 6573 | 6574 | 6575 | 6576 | 6577 | 6578 | 6579 |
| ## | 1 | 2 | 2 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
| ## | 6580 | 6581 | 6582 | 6583 | 6584 | 6585 | 6586 | 6587 | 6588 | 6589 | 6590 | 6591 | 6592 |
| ## | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
| ## | 6593 | 6594 | 6595 | 6596 | 6597 | 6598 | 6599 | 6600 | 6601 | 6602 | 6603 | 6604 | 6605 |
| ## | 2 | 1 | 1 | 1 | 2 | 1 | 2 | 1 | 1 | 2 | 2 | 2 | 1 |
| ## | 6606 | 6607 | 6608 | 6609 | 6610 | 6611 | 6612 | 6613 | 6614 | 6615 | 6616 | 6617 | 6618 |
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| ## | 6619 | 6620 | 6621 | 6622 | 6623 | 6624 | 6625 | 6626 | 6627 | 6628 | 6629 | 6630 | 6631 |
| ## | 1 | 2 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
| ## | 6632 | 6633 | 6634 | 6635 | 6636 | 6637 | 6638 | 6639 | 6640 | 6641 | 6642 | 6643 | 6644 |
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| ## | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 2 | 1 | 1 | 1 |
| ## | 6671 | 6672 | 6673 | 6674 | 6675 | 6676 | 6677 | 6678 | 6679 | 6680 | 6681 | 6682 | 6683 |
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| ## | 1 | 2 | 2 | 1 | 1 | 1 | 2 | 1 | 2 | 1 | 1 | 1 | 1 |
| ## | 6697 | 6698 | 6699 | 6700 | 6701 | 6702 | 6703 | 6704 | 6705 | 6706 | 6707 | 6708 | 6709 |
| ## | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 2 |
| ## | 6710 | 6711 | 6712 | 6713 | 6714 | 6715 | 6716 | 6717 | 6718 | 6719 | 6720 | 6721 | 6722 |
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| ## | 6749 | 6750 | 6751 | 6752 | 6753 | 6754 | 6755 | 6756 | 6757 | 6758 | 6759 | 6760 | 6761 |
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| ## | 6762 | 6763 | 6764 | 6765 | 6766 | 6767 | 6768 | 6769 | 6770 | 6771 | 6772 | 6773 | 6774 |
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| ## | 6801 | 6802 | 6803 | 6804 | 6805 | 6806 | 6807 | 6808 | 6809 | 6810 | 6811 | 6812 | 6813 |
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| ## | 6827 | 6828 | 6829 | 6830 | 6831 | 6832 | 6833 | 6834 | 6835 | 6836 | 6837 | 6838 | 6839 |
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| ## | 6840 | 6841 | 6842 | 6843 | 6844 | 6845 | 6846 | 6847 | 6848 | 6849 | 6850 | 6851 | 6852 |
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| ## | 1 | 1 | 1 | 2 | 2 | 2 | 1 | 1 | 1 | 1 | 1 | 1 | 1 |

| | | | | | | | | | | | | | |
|----|------|------|------|------|------|------|------|------|------|------|------|------|------|
| ## | 6879 | 6880 | 6881 | 6882 | 6883 | 6884 | 6885 | 6886 | 6887 | 6888 | 6889 | 6890 | 6891 |
| ## | 1 | 1 | 1 | 1 | 2 | 2 | 1 | 2 | 2 | 1 | 1 | 1 | 1 |
| ## | 6892 | 6893 | 6894 | 6895 | 6896 | 6897 | 6898 | 6899 | 6900 | 6901 | 6902 | 6903 | 6904 |
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| ## | 6905 | 6906 | 6907 | 6908 | 6909 | 6910 | 6911 | 6912 | 6913 | 6914 | 6915 | 6916 | 6917 |
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| ## | 6918 | 6919 | 6920 | 6921 | 6922 | 6923 | 6924 | 6925 | 6926 | 6927 | 6928 | 6929 | 6931 |
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| ## | 1 | 1 | 1 | 1 | 2 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 2 |
| ## | 6958 | 6959 | 6960 | 6961 | 6962 | 6963 | 6964 | 6965 | 6966 | 6967 | 6968 | 6969 | 6970 |
| ## | 1 | 2 | 2 | 1 | 2 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 2 |
| ## | 6971 | 6972 | 6973 | 6974 | 6975 | 6976 | 6977 | 6978 | 6979 | 6980 | 6981 | 6982 | 6983 |
| ## | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 2 | 1 | 1 | 1 |
| ## | 6984 | 6985 | 6986 | 6987 | 6988 | 6989 | 6990 | 6991 | 6992 | 6993 | 6994 | 6995 | 6996 |
| ## | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 2 | 1 | 1 | 1 |
| ## | 6997 | 6998 | 6999 | 7000 | 7001 | 7002 | 7003 | 7004 | 7005 | 7006 | 7007 | 7008 | 7009 |
| ## | 1 | 2 | 2 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 2 | 1 |
| ## | 7010 | 7011 | 7012 | 7013 | 7014 | 7015 | 7016 | 7017 | 7018 | 7019 | 7020 | 7021 | 7022 |
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| ## | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 2 | 1 | 1 | 1 | 1 |
| ## | 7036 | 7037 | 7038 | 7039 | 7040 | 7041 | 7042 | 7043 | 7044 | 7045 | 7046 | 7047 | 7048 |
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| ## | 7049 | 7050 | 7051 | 7052 | 7053 | 7054 | 7055 | 7056 | 7057 | 7058 | 7059 | 7060 | 7061 |
| ## | 1 | 1 | 1 | 1 | 1 | 2 | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
| ## | 7062 | 7063 | 7064 | 7065 | 7066 | 7067 | 7068 | 7069 | 7070 | 7071 | 7072 | 7073 | 7074 |
| ## | 1 | 1 | 2 | 1 | 2 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 2 |
| ## | 7075 | 7076 | 7077 | 7078 | 7079 | 7080 | 7081 | 7082 | 7083 | 7084 | 7085 | 7086 | 7087 |
| ## | 1 | 1 | 1 | 1 | 2 | 2 | 1 | 1 | 1 | 1 | 1 | 1 | 2 |
| ## | 7088 | 7089 | 7090 | 7091 | 7092 | 7093 | 7094 | 7095 | 7096 | 7097 | 7098 | 7099 | 7100 |
| ## | 2 | 1 | 1 | 1 | 2 | 1 | 1 | 2 | 1 | 1 | 1 | 2 | 1 |
| ## | 7101 | 7102 | 7103 | 7104 | 7105 | 7106 | 7107 | 7108 | 7109 | 7110 | 7111 | 7112 | 7113 |
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| ## | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 2 | 2 | 1 | 2 | 1 |
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| ## | 7140 | 7141 | 7142 | 7143 | 7144 | 7145 | 7146 | 7147 | 7148 | 7149 | 7150 | 7151 | 7153 |
| ## | 1 | 2 | 1 | 2 | 1 | 1 | 2 | 1 | 1 | 1 | 1 | 1 | 1 |
| ## | 7154 | 7155 | 7156 | 7157 | 7158 | 7159 | 7160 | 7161 | 7162 | 7163 | 7164 | 7165 | 7166 |
| ## | 1 | 2 | 1 | 1 | 1 | 1 | 1 | 2 | 1 | 1 | 1 | 2 | 1 |
| ## | 7167 | 7168 | 7169 | 7170 | 7171 | 7172 | 7173 | 7174 | 7175 | 7176 | 7177 | 7178 | 7179 |
| ## | 1 | 1 | 2 | 1 | 1 | 1 | 1 | 2 | 1 | 1 | 2 | 1 | 1 |
| ## | 7180 | 7181 | 7182 | 7183 | 7184 | 7185 | 7186 | 7187 | 7188 | 7189 | 7190 | 7191 | 7192 |
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| ## | 7193 | 7194 | 7195 | 7196 | 7197 | 7198 | 7199 | 7200 | 7201 | 7202 | 7203 | 7204 | 7205 |
| ## | 1 | 1 | 1 | 1 | 1 | 2 | 2 | 1 | 1 | 1 | 1 | 1 | 1 |
| ## | 7206 | 7207 | 7208 | 7209 | 7210 | 7211 | 7212 | 7213 | 7214 | 7215 | 7216 | 7217 | 7218 |
| ## | 1 | 2 | 1 | 1 | 2 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
| ## | 7219 | 7220 | 7221 | 7222 | 7223 | 7224 | 7225 | 7226 | 7227 | 7228 | 7229 | 7230 | 7231 |
| ## | 1 | 1 | 1 | 1 | 1 | 1 | 2 | 1 | 1 | 2 | 1 | 1 | 1 |

| | | | | | | | | | | | | | |
|----|------|------|------|------|------|------|------|------|------|------|------|------|------|
| ## | 7232 | 7233 | 7234 | 7235 | 7236 | 7237 | 7238 | 7239 | 7240 | 7241 | 7242 | 7243 | 7244 |
| ## | 1 | 1 | 1 | 1 | 2 | 2 | 1 | 1 | 1 | 2 | 1 | 1 | 1 |
| ## | 7245 | 7246 | 7247 | 7248 | 7249 | 7250 | 7251 | 7252 | 7253 | 7254 | 7255 | 7256 | 7257 |
| ## | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
| ## | 7258 | 7259 | 7260 | 7261 | 7262 | 7263 | 7264 | 7265 | 7266 | 7267 | 7268 | 7269 | 7270 |
| ## | 1 | 1 | 1 | 1 | 1 | 1 | 2 | 1 | 1 | 1 | 1 | 1 | 1 |
| ## | 7271 | 7272 | 7273 | 7274 | 7275 | 7276 | 7277 | 7278 | 7279 | 7280 | 7281 | 7282 | 7283 |
| ## | 1 | 1 | 2 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 2 | 1 |
| ## | 7284 | 7285 | 7286 | 7287 | 7288 | 7289 | 7290 | 7291 | 7292 | 7293 | 7294 | 7295 | 7296 |
| ## | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 2 | 1 | 2 | 1 | 1 | 1 |
| ## | 7297 | 7298 | 7299 | 7300 | 7301 | 7302 | 7303 | 7304 | 7305 | 7306 | 7307 | 7308 | 7309 |
| ## | 1 | 1 | 1 | 1 | 1 | 2 | 1 | 1 | 1 | 1 | 1 | 2 | 1 |
| ## | 7310 | 7311 | 7312 | 7313 | 7314 | 7315 | 7316 | 7317 | 7318 | 7319 | 7320 | 7321 | 7322 |
| ## | 2 | 1 | 1 | 1 | 1 | 2 | 2 | 1 | 1 | 1 | 2 | 1 | 2 |
| ## | 7323 | 7324 | 7325 | 7326 | 7327 | 7328 | 7329 | 7330 | 7331 | 7332 | 7333 | 7334 | 7335 |
| ## | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 2 | 1 | 1 | 1 | 1 | 1 |
| ## | 7336 | 7337 | 7338 | 7339 | 7340 | 7341 | 7342 | 7343 | 7344 | 7345 | 7346 | 7347 | 7348 |
| ## | 1 | 1 | 1 | 1 | 1 | 2 | 2 | 1 | 1 | 1 | 1 | 1 | 1 |
| ## | 7349 | 7350 | 7351 | 7352 | 7353 | 7354 | 7355 | 7356 | 7357 | 7358 | 7359 | 7360 | 7361 |
| ## | 1 | 2 | 2 | 1 | 1 | 2 | 1 | 1 | 1 | 2 | 2 | 1 | 1 |
| ## | 7362 | 7363 | 7364 | 7365 | 7366 | 7367 | 7368 | 7369 | 7370 | 7371 | 7372 | 7373 | 7374 |
| ## | 1 | 2 | 2 | 1 | 1 | 1 | 1 | 1 | 1 | 2 | 2 | 1 | 1 |
| ## | 7375 | 7376 | 7377 | 7378 | 7379 | 7380 | 7381 | 7382 | 7383 | 7384 | 7385 | 7386 | 7387 |
| ## | 1 | 1 | 1 | 2 | 1 | 1 | 1 | 1 | 1 | 1 | 2 | 1 | 1 |
| ## | 7388 | 7389 | 7390 | 7391 | 7392 | 7393 | 7394 | 7395 | 7396 | 7397 | 7398 | 7399 | 7400 |
| ## | 2 | 1 | 1 | 2 | 2 | 1 | 1 | 1 | 1 | 1 | 1 | 2 | 1 |
| ## | 7401 | 7402 | 7403 | 7404 | 7405 | 7406 | 7407 | 7408 | 7409 | 7410 | 7411 | 7412 | 7413 |
| ## | 1 | 1 | 2 | 1 | 1 | 1 | 1 | 1 | 2 | 1 | 2 | 1 | 1 |
| ## | 7414 | 7415 | 7416 | 7417 | 7418 | 7419 | 7420 | 7421 | 7422 | 7423 | 7424 | 7425 | 7426 |
| ## | 1 | 2 | 1 | 1 | 2 | 1 | 1 | 1 | 1 | 1 | 1 | 2 | 1 |
| ## | 7427 | 7428 | 7429 | 7430 | 7431 | 7432 | 7433 | 7434 | 7435 | 7436 | 7437 | 7438 | 7439 |
| ## | 1 | 1 | 1 | 1 | 1 | 1 | 2 | 1 | 1 | 1 | 1 | 1 | 1 |
| ## | 7440 | 7441 | 7442 | 7443 | 7444 | 7445 | 7446 | 7447 | 7448 | 7449 | 7450 | 7451 | 7452 |
| ## | 1 | 1 | 1 | 1 | 2 | 1 | 1 | 1 | 1 | 1 | 2 | 1 | 1 |
| ## | 7453 | 7454 | 7455 | 7456 | 7457 | 7458 | 7459 | 7460 | 7461 | 7462 | 7463 | 7464 | 7465 |
| ## | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
| ## | 7466 | 7467 | 7468 | 7469 | 7470 | 7471 | 7472 | 7473 | 7474 | 7475 | 7476 | 7477 | 7478 |
| ## | 1 | 1 | 1 | 2 | 1 | 1 | 1 | 2 | 1 | 1 | 1 | 1 | 1 |
| ## | 7479 | 7480 | 7481 | 7482 | 7483 | 7484 | 7485 | 7486 | 7487 | 7488 | 7489 | 7490 | 7491 |
| ## | 1 | 1 | 2 | 1 | 1 | 1 | 2 | 1 | 1 | 1 | 1 | 1 | 1 |
| ## | 7492 | 7493 | 7494 | 7495 | 7496 | 7497 | 7498 | 7499 | 7500 | 7501 | 7502 | 7503 | 7504 |
| ## | 1 | 1 | 1 | 2 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
| ## | 7505 | 7506 | 7507 | 7508 | 7509 | 7510 | 7511 | 7512 | 7513 | 7514 | 7515 | 7516 | 7517 |
| ## | 2 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
| ## | 7518 | 7519 | 7520 | 7521 | 7522 | 7523 | 7524 | 7525 | 7526 | 7527 | 7528 | 7529 | 7530 |
| ## | 1 | 1 | 1 | 1 | 1 | 1 | 2 | 1 | 1 | 1 | 1 | 1 | 1 |
| ## | 7531 | 7532 | 7533 | 7534 | 7535 | 7536 | 7537 | 7538 | 7539 | 7540 | 7541 | 7542 | 7543 |
| ## | 1 | 1 | 2 | 1 | 1 | 1 | 1 | 1 | 2 | 1 | 1 | 1 | 1 |
| ## | 7544 | 7545 | 7546 | 7547 | 7548 | 7549 | 7550 | 7551 | 7552 | 7553 | 7554 | 7555 | 7556 |
| ## | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 2 | 2 | 1 | 2 | 1 | 1 |
| ## | 7557 | 7558 | 7559 | 7560 | 7561 | 7562 | 7563 | 7564 | 7565 | 7566 | 7567 | 7568 | 7569 |
| ## | 2 | 1 | 1 | 2 | 1 | 1 | 1 | 2 | 1 | 1 | 1 | 1 | 1 |
| ## | 7570 | 7571 | 7572 | 7573 | 7574 | 7575 | 7576 | 7577 | 7578 | 7579 | 7580 | 7581 | 7582 |
| ## | 1 | 1 | 1 | 2 | 1 | 2 | 1 | 2 | 2 | 1 | 1 | 1 | 1 |

| | | | | | | | | | | | | | |
|----|------|------|------|------|------|------|------|------|------|------|------|------|------|
| ## | 7583 | 7584 | 7585 | 7586 | 7587 | 7588 | 7589 | 7590 | 7591 | 7592 | 7593 | 7594 | 7595 |
| ## | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 2 | 1 | 1 | 1 | 1 | 1 |
| ## | 7596 | 7597 | 7598 | 7599 | 7600 | 7601 | 7602 | 7603 | 7604 | 7605 | 7606 | 7607 | 7608 |
| ## | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 2 |
| ## | 7609 | 7610 | 7611 | 7612 | 7613 | 7614 | 7615 | 7616 | 7617 | 7618 | 7619 | 7620 | 7621 |
| ## | 1 | 1 | 1 | 2 | 1 | 1 | 1 | 2 | 2 | 2 | 1 | 1 | 1 |
| ## | 7622 | 7623 | 7624 | 7625 | 7626 | 7627 | 7628 | 7629 | 7630 | 7631 | 7632 | 7633 | 7634 |
| ## | 1 | 2 | 2 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
| ## | 7635 | 7637 | 7638 | 7639 | 7640 | 7641 | 7642 | 7643 | 7644 | 7645 | 7646 | 7647 | 7648 |
| ## | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 2 | 1 | 1 | 1 | 2 |
| ## | 7649 | 7650 | 7651 | 7652 | 7653 | 7654 | 7655 | 7656 | 7657 | 7658 | 7659 | 7660 | 7661 |
| ## | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
| ## | 7662 | 7663 | 7664 | 7665 | 7666 | 7667 | 7668 | 7669 | 7670 | 7671 | 7672 | 7673 | 7674 |
| ## | 1 | 2 | 1 | 1 | 1 | 1 | 1 | 1 | 2 | 1 | 1 | 1 | 1 |
| ## | 7675 | 7676 | 7677 | 7678 | 7679 | 7680 | 7681 | 7682 | 7683 | 7684 | 7685 | 7686 | 7687 |
| ## | 1 | 1 | 1 | 1 | 1 | 2 | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
| ## | 7688 | 7689 | 7690 | 7691 | 7692 | 7693 | 7694 | 7695 | 7696 | 7697 | 7698 | 7699 | 7700 |
| ## | 1 | 1 | 2 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
| ## | 7701 | 7702 | 7703 | 7704 | 7705 | 7706 | 7707 | 7708 | 7709 | 7710 | 7711 | 7712 | 7713 |
| ## | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
| ## | 7714 | 7715 | 7716 | 7717 | 7718 | 7719 | 7720 | 7721 | 7722 | 7723 | 7724 | 7725 | 7726 |
| ## | 1 | 1 | 1 | 1 | 1 | 2 | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
| ## | 7727 | 7728 | 7729 | 7730 | 7731 | 7732 | 7733 | 7734 | 7735 | 7736 | 7737 | 7738 | 7739 |
| ## | 1 | 1 | 2 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 2 | 1 | 1 |
| ## | 7740 | 7741 | 7742 | 7743 | 7744 | 7745 | 7746 | 7747 | 7748 | 7749 | 7750 | 7751 | 7752 |
| ## | 2 | 1 | 1 | 1 | 2 | 1 | 1 | 2 | 1 | 1 | 1 | 1 | 1 |
| ## | 7753 | 7754 | 7755 | 7756 | 7757 | 7758 | 7759 | 7760 | 7761 | 7762 | 7763 | 7764 | 7765 |
| ## | 1 | 1 | 1 | 1 | 1 | 1 | 2 | 1 | 1 | 1 | 2 | 2 | 1 |
| ## | 7766 | 7767 | 7768 | 7769 | 7770 | 7771 | 7772 | 7773 | 7774 | 7775 | 7776 | 7777 | 7778 |
| ## | 1 | 1 | 1 | 2 | 1 | 2 | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
| ## | 7779 | 7780 | 7781 | 7782 | 7783 | 7784 | 7785 | 7786 | 7787 | 7788 | 7789 | 7790 | 7791 |
| ## | 1 | 1 | 2 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
| ## | 7792 | 7793 | 7794 | 7795 | 7796 | 7797 | 7798 | 7799 | 7800 | 7801 | 7802 | 7803 | 7804 |
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| ## | 7805 | 7806 | 7807 | 7808 | 7809 | 7810 | 7811 | 7812 | 7813 | 7814 | 7815 | 7816 | 7817 |
| ## | 2 | 1 | 1 | 2 | 1 | 1 | 1 | 1 | 2 | 1 | 1 | 1 | 1 |
| ## | 7818 | 7819 | 7820 | 7821 | 7822 | 7823 | 7824 | 7825 | 7826 | 7827 | 7828 | 7829 | 7830 |
| ## | 1 | 1 | 2 | 1 | 1 | 1 | 1 | 2 | 1 | 1 | 1 | 2 | 1 |
| ## | 7831 | 7832 | 7833 | 7834 | 7835 | 7836 | 7837 | 7838 | 7839 | 7840 | 7841 | 7842 | 7843 |
| ## | 2 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 2 | 1 | 1 | 1 | 1 |
| ## | 7844 | 7845 | 7846 | 7847 | 7848 | 7849 | 7850 | 7851 | 7852 | 7853 | 7854 | 7855 | 7856 |
| ## | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 2 | 1 | 1 | 1 | 1 | 1 |
| ## | 7857 | 7858 | 7859 | 7860 | 7861 | 7862 | 7863 | 7864 | 7865 | 7866 | 7867 | 7868 | 7869 |
| ## | 2 | 2 | 2 | 1 | 1 | 1 | 1 | 1 | 2 | 1 | 1 | 1 | 1 |
| ## | 7870 | 7871 | 7872 | 7873 | 7874 | 7875 | 7876 | 7877 | 7878 | 7879 | 7880 | 7881 | 7882 |
| ## | 1 | 1 | 2 | 1 | 1 | 2 | 2 | 1 | 1 | 1 | 1 | 1 | 1 |
| ## | 7883 | 7884 | 7885 | 7886 | 7887 | 7888 | 7889 | 7890 | 7891 | 7892 | 7893 | 7894 | 7895 |
| ## | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 2 | 1 | 2 | 2 | 1 |
| ## | 7896 | 7897 | 7898 | 7899 | 7900 | 7901 | 7902 | 7903 | 7904 | 7905 | 7906 | 7907 | 7908 |
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| ## | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
| ## | 7922 | 7923 | 7924 | 7925 | 7926 | 7927 | 7928 | 7929 | 7930 | 7931 | 7932 | 7933 | 7934 |
| ## | 1 | 1 | 1 | 1 | 2 | 1 | 2 | 1 | 1 | 1 | 1 | 1 | 1 |

| | | | | | | | | | | | | | |
|----|------|------|------|------|------|------|------|------|------|------|------|------|------|
| ## | 7935 | 7936 | 7937 | 7938 | 7939 | 7940 | 7941 | 7942 | 7943 | 7944 | 7945 | 7946 | 7947 |
| ## | 1 | 1 | 1 | 1 | 2 | 1 | 1 | 1 | 2 | 1 | 2 | 1 | 1 |
| ## | 7948 | 7949 | 7950 | 7951 | 7952 | 7953 | 7954 | 7955 | 7956 | 7957 | 7958 | 7959 | 7960 |
| ## | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 2 | 1 | 1 | 1 | 2 | 1 |
| ## | 7961 | 7962 | 7963 | 7964 | 7965 | 7966 | 7967 | 7968 | 7969 | 7970 | 7971 | 7972 | 7973 |
| ## | 1 | 1 | 1 | 1 | 2 | 2 | 1 | 1 | 1 | 1 | 1 | 2 | 1 |
| ## | 7974 | 7975 | 7976 | 7977 | 7978 | 7979 | 7980 | 7981 | 7982 | 7983 | 7984 | 7985 | 7986 |
| ## | 1 | 2 | 1 | 2 | 1 | 1 | 1 | 1 | 1 | 1 | 2 | 1 | 1 |
| ## | 7987 | 7988 | 7989 | 7990 | 7991 | 7992 | 7993 | 7994 | 7995 | 7996 | 7997 | 7998 | 7999 |
| ## | 1 | 1 | 2 | 1 | 1 | 2 | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
| ## | 8000 | 8001 | 8002 | 8003 | 8004 | 8005 | 8006 | 8007 | 8008 | 8009 | 8010 | 8011 | 8012 |
| ## | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 2 | 1 | 1 |
| ## | 8013 | 8014 | 8015 | 8016 | 8017 | 8018 | 8019 | 8020 | 8021 | 8022 | 8023 | 8024 | 8025 |
| ## | 1 | 1 | 1 | 1 | 2 | 2 | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
| ## | 8026 | 8027 | 8028 | 8029 | 8030 | 8031 | 8032 | 8033 | 8034 | 8035 | 8036 | 8037 | 8038 |
| ## | 1 | 2 | 1 | 1 | 1 | 1 | 1 | 1 | 2 | 1 | 1 | 1 | 1 |
| ## | 8039 | 8040 | 8041 | 8042 | 8043 | 8044 | 8045 | 8046 | 8047 | 8048 | 8049 | 8050 | 8051 |
| ## | 1 | 1 | 2 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 2 |
| ## | 8052 | 8053 | 8054 | 8055 | 8056 | 8057 | 8058 | 8059 | 8060 | 8061 | 8062 | 8063 | 8064 |
| ## | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
| ## | 8065 | 8066 | 8067 | 8068 | 8069 | 8070 | 8071 | 8072 | 8073 | 8074 | 8075 | 8076 | 8077 |
| ## | 1 | 1 | 2 | 1 | 1 | 1 | 1 | 2 | 1 | 1 | 1 | 1 | 1 |
| ## | 8078 | 8079 | 8080 | 8081 | 8082 | 8083 | 8084 | 8085 | 8086 | 8087 | 8088 | 8089 | 8090 |
| ## | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
| ## | 8091 | 8092 | 8093 | 8094 | 8095 | 8096 | 8097 | 8098 | 8099 | 8100 | 8101 | 8102 | 8103 |
| ## | 1 | 1 | 1 | 2 | 2 | 2 | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
| ## | 8104 | 8105 | 8106 | 8107 | 8108 | 8109 | 8110 | 8111 | 8112 | 8113 | 8114 | 8115 | 8116 |
| ## | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
| ## | 8117 | 8118 | 8119 | 8120 | 8121 | 8122 | 8123 | 8124 | 8125 | 8126 | 8127 | 8128 | 8129 |
| ## | 2 | 2 | 1 | 2 | 2 | 1 | 2 | 1 | 1 | 2 | 1 | 1 | 1 |
| ## | 8130 | 8131 | 8132 | 8133 | 8134 | 8135 | 8136 | 8137 | 8138 | 8139 | 8140 | 8141 | 8142 |
| ## | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
| ## | 8143 | 8144 | 8145 | 8146 | 8147 | 8148 | 8149 | 8150 | 8151 | 8152 | 8153 | 8154 | 8155 |
| ## | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 2 | 1 | 1 | 1 | 1 |
| ## | 8156 | 8157 | 8158 | 8159 | 8160 | 8161 | 8162 | 8163 | 8164 | 8165 | 8166 | 8167 | 8168 |
| ## | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
| ## | 8169 | 8170 | 8171 | 8172 | 8173 | 8174 | 8175 | 8176 | 8177 | 8178 | 8179 | 8180 | 8181 |
| ## | 1 | 1 | 1 | 1 | 2 | 2 | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
| ## | 8182 | 8183 | 8184 | 8185 | 8186 | 8187 | 8188 | 8189 | 8190 | 8191 | 8192 | 8193 | 8194 |
| ## | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 2 | 1 | 1 | 1 | 1 | 2 |
| ## | 8195 | 8196 | 8197 | 8198 | 8199 | 8200 | 8201 | 8202 | 8203 | 8204 | 8205 | 8206 | 8207 |
| ## | 1 | 1 | 1 | 2 | 1 | 1 | 1 | 1 | 2 | 1 | 1 | 1 | 1 |
| ## | 8208 | 8209 | 8210 | 8211 | 8212 | 8213 | 8214 | 8215 | 8216 | 8217 | 8218 | 8219 | 8220 |
| ## | 1 | 1 | 1 | 1 | 1 | 2 | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
| ## | 8221 | 8222 | 8223 | 8224 | 8225 | 8226 | 8227 | 8228 | 8229 | 8230 | 8231 | 8232 | 8233 |
| ## | 1 | 1 | 1 | 1 | 1 | 2 | 1 | 1 | 2 | 1 | 2 | 1 | 1 |
| ## | 8234 | 8235 | 8236 | 8237 | 8238 | 8239 | 8240 | 8241 | 8242 | 8243 | 8244 | 8245 | 8246 |
| ## | 1 | 2 | 1 | 1 | 1 | 2 | 1 | 1 | 1 | 1 | 1 | 1 | 2 |
| ## | 8247 | 8248 | 8249 | 8250 | 8251 | 8252 | 8253 | 8254 | 8255 | 8256 | 8257 | 8258 | 8259 |
| ## | 1 | 1 | 2 | 1 | 1 | 1 | 2 | 1 | 1 | 1 | 1 | 1 | 1 |
| ## | 8260 | 8261 | 8262 | 8263 | 8264 | 8265 | 8266 | 8267 | 8268 | 8269 | 8270 | 8271 | 8272 |
| ## | 1 | 2 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 2 | 2 | 1 |
| ## | 8273 | 8274 | 8275 | 8276 | 8277 | 8278 | 8279 | 8280 | 8281 | 8282 | 8283 | 8284 | 8285 |
| ## | 1 | 1 | 2 | 1 | 1 | 2 | 2 | 2 | 1 | 2 | 2 | 1 | 2 |

| | | | | | | | | | | | | | |
|----|------|------|------|------|------|------|------|------|------|------|------|------|------|
| ## | 8286 | 8287 | 8288 | 8289 | 8290 | 8291 | 8292 | 8293 | 8294 | 8295 | 8296 | 8297 | 8298 |
| ## | 1 | 1 | 1 | 1 | 1 | 1 | 2 | 1 | 1 | 1 | 1 | 1 | 1 |
| ## | 8299 | 8300 | 8301 | 8302 | 8303 | 8304 | 8305 | 8306 | 8307 | 8308 | 8309 | 8310 | 8311 |
| ## | 1 | 1 | 1 | 2 | 1 | 1 | 1 | 1 | 1 | 1 | 2 | 1 | 1 |
| ## | 8312 | 8313 | 8314 | 8315 | 8316 | 8317 | 8318 | 8319 | 8320 | 8321 | 8322 | 8323 | 8324 |
| ## | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
| ## | 8325 | 8326 | 8327 | 8328 | 8329 | 8330 | 8331 | 8332 | 8333 | 8334 | 8335 | 8336 | 8337 |
| ## | 1 | 1 | 1 | 1 | 1 | 1 | 2 | 1 | 2 | 1 | 1 | 1 | 1 |
| ## | 8338 | 8339 | 8340 | 8341 | 8342 | 8343 | 8344 | 8345 | 8346 | 8347 | 8348 | 8349 | 8350 |
| ## | 2 | 2 | 1 | 1 | 1 | 1 | 2 | 2 | 1 | 2 | 1 | 1 | 2 |
| ## | 8351 | 8352 | 8353 | 8354 | 8355 | 8356 | 8357 | 8358 | 8359 | 8360 | 8361 | 8362 | 8363 |
| ## | 1 | 1 | 1 | 1 | 1 | 2 | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
| ## | 8364 | 8365 | 8366 | 8367 | 8368 | 8369 | 8370 | 8371 | 8372 | 8373 | 8374 | 8375 | 8376 |
| ## | 1 | 1 | 1 | 1 | 1 | 2 | 1 | 1 | 2 | 1 | 1 | 2 | 2 |
| ## | 8377 | 8378 | 8379 | 8380 | 8381 | 8382 | 8383 | 8384 | 8385 | 8386 | 8387 | 8388 | 8389 |
| ## | 2 | 2 | 1 | 1 | 1 | 1 | 1 | 2 | 1 | 1 | 1 | 1 | 1 |
| ## | 8390 | 8391 | 8392 | 8393 | 8394 | 8395 | 8396 | 8397 | 8398 | 8399 | 8400 | 8401 | 8402 |
| ## | 2 | 2 | 1 | 2 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
| ## | 8403 | 8404 | 8405 | 8406 | 8407 | 8408 | 8409 | 8410 | 8411 | 8412 | 8413 | 8414 | 8415 |
| ## | 1 | 1 | 1 | 1 | 2 | 1 | 1 | 1 | 1 | 1 | 2 | 1 | 1 |
| ## | 8416 | 8417 | 8418 | 8419 | 8420 | 8421 | 8422 | 8423 | 8424 | 8425 | 8426 | 8427 | 8428 |
| ## | 2 | 1 | 2 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
| ## | 8429 | 8430 | 8431 | 8432 | 8433 | 8434 | 8435 | 8436 | 8437 | 8438 | 8439 | 8440 | 8441 |
| ## | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 2 | 1 | 1 | 2 | 1 | 1 |
| ## | 8442 | 8443 | 8444 | 8445 | 8446 | 8447 | 8448 | 8449 | 8450 | 8451 | 8452 | 8453 | 8454 |
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| ## | 8455 | 8456 | 8457 | 8458 | 8459 | 8460 | 8461 | 8462 | 8463 | 8464 | 8465 | 8466 | 8467 |
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| ## | 8468 | 8469 | 8470 | 8471 | 8472 | 8473 | 8474 | 8475 | 8476 | 8477 | 8478 | 8479 | 8480 |
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| ## | 8481 | 8482 | 8483 | 8484 | 8485 | 8486 | 8487 | 8488 | 8489 | 8490 | 8491 | 8492 | 8493 |
| ## | 1 | 1 | 2 | 1 | 1 | 2 | 2 | 2 | 1 | 1 | 1 | 1 | 1 |
| ## | 8494 | 8495 | 8496 | 8497 | 8498 | 8499 | 8500 | 8501 | 8502 | 8503 | 8504 | 8505 | 8506 |
| ## | 1 | 1 | 1 | 2 | 2 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 2 |
| ## | 8507 | 8508 | 8509 | 8510 | 8511 | 8512 | 8513 | 8514 | 8515 | 8516 | 8517 | 8518 | 8519 |
| ## | 1 | 1 | 1 | 1 | 2 | 1 | 1 | 1 | 2 | 1 | 1 | 1 | 1 |
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| ## | 8533 | 8534 | 8535 | 8536 | 8537 | 8538 | 8539 | 8540 | 8541 | 8542 | 8543 | 8544 | 8546 |
| ## | 1 | 1 | 1 | 2 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
| ## | 8547 | 8548 | 8549 | 8550 | 8551 | 8552 | 8553 | 8554 | 8555 | 8556 | 8557 | 8558 | 8559 |
| ## | 1 | 1 | 2 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 2 | 1 | 1 |
| ## | 8560 | 8561 | 8562 | 8563 | 8564 | 8565 | 8566 | 8567 | 8568 | 8569 | 8570 | 8571 | 8572 |
| ## | 1 | 2 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 2 | 1 |
| ## | 8573 | 8574 | 8575 | 8576 | 8577 | 8578 | 8579 | 8580 | 8581 | 8582 | 8583 | 8584 | 8585 |
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| ## | 8586 | 8587 | 8588 | 8589 | 8590 | 8591 | 8592 | 8593 | 8594 | 8595 | 8596 | 8597 | 8598 |
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| ## | 8599 | 8600 | 8601 | 8602 | 8603 | 8604 | 8605 | 8606 | 8607 | 8608 | 8609 | 8610 | 8611 |
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| ## | 8612 | 8613 | 8614 | 8615 | 8616 | 8617 | 8618 | 8619 | 8620 | 8621 | 8622 | 8623 | 8624 |
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| ## | 8625 | 8626 | 8627 | 8628 | 8629 | 8630 | 8631 | 8632 | 8633 | 8634 | 8635 | 8636 | 8637 |
| ## | 1 | 1 | 1 | 1 | 1 | 2 | 2 | 1 | 2 | 1 | 1 | 1 | 1 |

| | | | | | | | | | | | | | |
|----|------|------|------|------|------|------|------|------|------|------|------|------|------|
| ## | 8638 | 8639 | 8640 | 8641 | 8642 | 8643 | 8644 | 8645 | 8646 | 8647 | 8648 | 8649 | 8650 |
| ## | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 2 | 1 | 1 | 1 | 1 |
| ## | 8651 | 8652 | 8653 | 8654 | 8655 | 8656 | 8657 | 8658 | 8659 | 8660 | 8661 | 8662 | 8663 |
| ## | 1 | 1 | 1 | 1 | 1 | 2 | 1 | 1 | 1 | 1 | 2 | 1 | 1 |
| ## | 8664 | 8665 | 8666 | 8667 | 8668 | 8669 | 8670 | 8671 | 8672 | 8673 | 8674 | 8675 | 8676 |
| ## | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 2 | 2 | 1 | 1 |
| ## | 8677 | 8678 | 8679 | 8680 | 8681 | 8682 | 8683 | 8684 | 8685 | 8686 | 8687 | 8688 | 8689 |
| ## | 1 | 2 | 2 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 2 | 2 |
| ## | 8690 | 8691 | 8692 | 8693 | 8694 | 8695 | 8696 | 8697 | 8698 | 8699 | 8700 | 8701 | 8702 |
| ## | 1 | 1 | 2 | 1 | 1 | 2 | 1 | 1 | 1 | 1 | 1 | 1 | 2 |
| ## | 8703 | 8704 | 8705 | 8706 | 8707 | 8708 | 8709 | 8710 | 8711 | 8712 | 8713 | 8714 | 8715 |
| ## | 1 | 1 | 1 | 1 | 1 | 2 | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
| ## | 8716 | 8717 | 8718 | 8719 | 8720 | 8721 | 8722 | 8723 | 8724 | 8725 | 8726 | 8727 | 8728 |
| ## | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 2 | 1 | 1 |
| ## | 8729 | 8730 | 8731 | 8732 | 8733 | 8734 | 8735 | 8736 | 8737 | 8738 | 8739 | 8740 | 8741 |
| ## | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 2 | 1 | 1 | 1 |
| ## | 8742 | 8743 | 8744 | 8745 | 8746 | 8747 | 8748 | 8749 | 8750 | 8751 | 8752 | 8753 | 8754 |
| ## | 1 | 1 | 2 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
| ## | 8755 | 8756 | 8757 | 8758 | 8759 | 8760 | 8761 | 8762 | 8763 | 8764 | 8765 | 8766 | 8767 |
| ## | 1 | 1 | 2 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 2 | 1 | 1 |
| ## | 8768 | 8769 | 8770 | 8771 | 8772 | 8773 | 8774 | 8775 | 8776 | 8777 | 8778 | 8779 | 8780 |
| ## | 1 | 2 | 1 | 2 | 1 | 1 | 1 | 1 | 1 | 1 | 2 | 2 | 1 |
| ## | 8781 | 8782 | 8783 | 8784 | 8785 | 8786 | 8787 | 8788 | 8789 | 8790 | 8791 | 8792 | 8793 |
| ## | 1 | 1 | 1 | 1 | 2 | 1 | 1 | 2 | 1 | 1 | 1 | 1 | 2 |
| ## | 8794 | 8795 | 8796 | 8797 | 8798 | 8799 | 8800 | 8801 | 8802 | 8803 | 8804 | 8805 | 8806 |
| ## | 1 | 1 | 1 | 1 | 1 | 1 | 2 | 1 | 1 | 1 | 2 | 1 | 1 |
| ## | 8807 | 8808 | 8809 | 8810 | 8811 | 8812 | 8813 | 8814 | 8815 | 8816 | 8817 | 8818 | 8819 |
| ## | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 2 | 2 | 1 | 1 |
| ## | 8820 | 8821 | 8822 | 8823 | 8824 | 8825 | 8826 | 8827 | 8828 | 8829 | 8830 | 8831 | 8832 |
| ## | 1 | 2 | 1 | 1 | 1 | 1 | 1 | 2 | 2 | 1 | 1 | 2 | 2 |
| ## | 8833 | 8834 | 8835 | 8836 | 8837 | 8838 | 8839 | 8840 | 8841 | 8842 | 8843 | 8844 | 8845 |
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| ## | 8846 | 8847 | 8848 | 8849 | 8850 | 8851 | 8852 | 8853 | 8854 | 8855 | 8856 | 8857 | 8858 |
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| ## | 8859 | 8860 | 8861 | 8862 | 8863 | 8864 | 8865 | 8866 | 8867 | 8868 | 8869 | 8870 | 8871 |
| ## | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 2 | 2 | 2 |
| ## | 8872 | 8873 | 8874 | 8875 | 8876 | 8877 | 8878 | 8879 | 8880 | 8881 | 8882 | 8883 | 8884 |
| ## | 1 | 2 | 1 | 2 | 1 | 1 | 2 | 2 | 1 | 1 | 1 | 1 | 2 |
| ## | 8885 | 8886 | 8887 | 8888 | 8889 | 8890 | 8891 | 8892 | 8893 | 8894 | 8895 | 8896 | 8897 |
| ## | 1 | 2 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
| ## | 8898 | 8899 | 8900 | 8901 | 8902 | 8903 | 8904 | 8905 | 8906 | 8907 | 8908 | 8909 | 8910 |
| ## | 1 | 1 | 2 | 1 | 2 | 1 | 1 | 1 | 1 | 2 | 2 | 1 | 1 |
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| ## | 8924 | 8925 | 8926 | 8927 | 8928 | 8929 | 8930 | 8931 | 8932 | 8933 | 8934 | 8935 | 8936 |
| ## | 1 | 1 | 2 | 1 | 2 | 1 | 2 | 1 | 1 | 2 | 1 | 1 | 1 |
| ## | 8937 | 8938 | 8939 | 8940 | 8941 | 8942 | 8943 | 8944 | 8945 | 8946 | 8947 | 8948 | 8949 |
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| ## | 8950 | 8951 | 8952 | 8953 | 8954 | 8955 | 8956 | 8957 | 8958 | 8959 | 8960 | 8961 | 8962 |
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| ## | 8963 | 8964 | 8965 | 8966 | 8967 | 8968 | 8969 | 8970 | 8971 | 8972 | 8973 | 8974 | 8975 |
| ## | 1 | 1 | 1 | 2 | 1 | 1 | 1 | 2 | 1 | 1 | 2 | 1 | 1 |
| ## | 8976 | 8977 | 8978 | 8979 | 8980 | 8981 | 8982 | 8983 | 8984 | 8985 | 8986 | 8987 | 8988 |
| ## | 2 | 2 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 |

| | | | | | | | | | | | | | |
|----|------|------|------|------|------|------|------|------|------|------|------|------|------|
| ## | 8989 | 8990 | 8991 | 8992 | 8993 | 8994 | 8995 | 8996 | 8997 | 8998 | 8999 | 9000 | 9001 |
| ## | 1 | 1 | 1 | 1 | 1 | 2 | 1 | 1 | 2 | 1 | 1 | 2 | 1 |
| ## | 9002 | 9003 | 9004 | 9005 | 9006 | 9007 | 9008 | 9009 | 9010 | 9011 | 9012 | 9013 | 9014 |
| ## | 2 | 1 | 2 | 1 | 2 | 1 | 1 | 1 | 1 | 1 | 2 | 1 | 1 |
| ## | 9015 | 9016 | 9017 | 9018 | 9019 | 9020 | 9021 | 9022 | 9023 | 9024 | 9025 | 9026 | 9027 |
| ## | 1 | 2 | 1 | 1 | 2 | 2 | 1 | 1 | 2 | 1 | 1 | 1 | 1 |
| ## | 9028 | 9029 | 9030 | 9031 | 9032 | 9033 | 9034 | 9035 | 9036 | 9037 | 9038 | 9039 | 9040 |
| ## | 1 | 2 | 1 | 1 | 2 | 1 | 1 | 1 | 2 | 1 | 1 | 1 | 1 |
| ## | 9041 | 9042 | 9043 | 9044 | 9045 | 9046 | 9047 | 9048 | 9049 | 9050 | 9051 | 9052 | 9053 |
| ## | 2 | 2 | 1 | 2 | 2 | 1 | 1 | 1 | 1 | 1 | 2 | 1 | 2 |
| ## | 9054 | 9055 | 9056 | 9057 | 9058 | 9059 | 9060 | 9061 | 9062 | 9063 | 9064 | 9065 | 9066 |
| ## | 1 | 2 | 1 | 1 | 1 | 2 | 2 | 1 | 1 | 1 | 1 | 1 | 1 |
| ## | 9067 | 9068 | 9069 | 9070 | 9071 | 9072 | 9073 | 9074 | 9075 | 9076 | 9077 | 9078 | 9079 |
| ## | 2 | 1 | 1 | 2 | 2 | 1 | 2 | 1 | 1 | 1 | 1 | 1 | 2 |
| ## | 9080 | 9081 | 9082 | 9083 | 9084 | 9085 | 9086 | 9087 | 9088 | 9089 | 9090 | 9091 | 9092 |
| ## | 1 | 1 | 1 | 2 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
| ## | 9093 | 9094 | 9095 | 9096 | 9097 | 9098 | 9099 | 9100 | 9101 | 9102 | 9103 | 9104 | 9105 |
| ## | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 2 | 2 | 1 | 2 |
| ## | 9106 | 9107 | 9108 | 9109 | 9110 | 9111 | 9112 | 9113 | 9114 | 9115 | 9116 | 9117 | 9118 |
| ## | 1 | 2 | 1 | 1 | 1 | 1 | 1 | 1 | 2 | 1 | 2 | 1 | 1 |
| ## | 9119 | 9120 | 9121 | 9122 | 9123 | 9124 | 9125 | 9126 | 9127 | 9128 | 9129 | 9130 | 9131 |
| ## | 1 | 1 | 1 | 1 | 2 | 1 | 2 | 1 | 1 | 1 | 1 | 1 | 2 |
| ## | 9132 | 9133 | 9134 | 9135 | 9136 | 9137 | 9138 | 9139 | 9140 | 9141 | 9142 | 9143 | 9144 |
| ## | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
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| ## | 1 | 1 | 2 | 2 | 1 | 1 | 1 | 1 | 1 | 1 | 2 | 1 | 2 |
| ## | 9158 | 9159 | 9160 | 9161 | 9162 | 9163 | 9164 | 9165 | 9166 | 9167 | 9168 | 9169 | 9170 |
| ## | 1 | 1 | 2 | 2 | 1 | 1 | 2 | 2 | 1 | 1 | 1 | 2 | 1 |
| ## | 9171 | 9172 | 9173 | 9174 | 9175 | 9176 | 9177 | 9178 | 9179 | 9180 | 9181 | 9182 | 9183 |
| ## | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 2 | 1 | 1 | 1 | 1 | 2 |
| ## | 9184 | 9185 | 9186 | 9187 | 9188 | 9189 | 9190 | 9191 | 9192 | 9193 | 9194 | 9195 | 9196 |
| ## | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 2 |
| ## | 9197 | 9198 | 9199 | 9200 | 9201 | 9202 | 9203 | 9204 | 9205 | 9206 | 9207 | 9208 | 9209 |
| ## | 1 | 2 | 1 | 1 | 1 | 1 | 2 | 1 | 1 | 1 | 1 | 1 | 2 |
| ## | 9210 | 9211 | 9212 | 9213 | 9214 | 9215 | 9216 | 9217 | 9218 | 9219 | 9220 | 9221 | 9222 |
| ## | 1 | 2 | 1 | 1 | 2 | 2 | 1 | 1 | 1 | 2 | 1 | 1 | 1 |
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| ## | 2 | 2 | 1 | 1 | 2 | 2 | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
| ## | 9262 | 9263 | 9264 | 9265 | 9266 | 9267 | 9268 | 9269 | 9270 | 9271 | 9272 | 9273 | 9274 |
| ## | 1 | 1 | 2 | 1 | 1 | 1 | 1 | 2 | 1 | 1 | 1 | 1 | 2 |
| ## | 9275 | 9276 | 9277 | 9278 | 9279 | 9280 | 9281 | 9282 | 9283 | 9284 | 9285 | 9286 | 9287 |
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| ## | 9301 | 9302 | 9303 | 9304 | 9305 | 9306 | 9308 | 9309 | 9310 | 9311 | 9312 | 9313 | 9314 |
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| ## | 9315 | 9316 | 9317 | 9318 | 9319 | 9320 | 9321 | 9322 | 9323 | 9324 | 9325 | 9326 | 9327 |
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| ## | 1 | 1 | 1 | 2 | 1 | 2 | 1 | 2 | 1 | 2 | 1 | 1 | 1 |

| | | | | | | | | | | | | | |
|----|------|------|------|------|------|------|------|------|------|------|------|------|------|
| ## | 9341 | 9342 | 9343 | 9344 | 9345 | 9346 | 9347 | 9348 | 9349 | 9350 | 9351 | 9352 | 9353 |
| ## | 1 | 1 | 1 | 1 | 2 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
| ## | 9354 | 9355 | 9356 | 9357 | 9358 | 9359 | 9360 | 9361 | 9362 | 9363 | 9364 | 9365 | 9366 |
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| ## | 9367 | 9368 | 9369 | 9370 | 9371 | 9372 | 9373 | 9374 | 9375 | 9376 | 9377 | 9378 | 9379 |
| ## | 1 | 1 | 2 | 1 | 1 | 2 | 2 | 1 | 1 | 1 | 1 | 1 | 2 |
| ## | 9380 | 9381 | 9382 | 9383 | 9384 | 9385 | 9386 | 9387 | 9388 | 9389 | 9390 | 9391 | 9392 |
| ## | 1 | 1 | 1 | 2 | 1 | 1 | 1 | 2 | 1 | 1 | 2 | 1 | 1 |
| ## | 9393 | 9394 | 9395 | 9396 | 9397 | 9398 | 9399 | 9400 | 9401 | 9402 | 9403 | 9404 | 9405 |
| ## | 1 | 1 | 2 | 1 | 1 | 1 | 2 | 2 | 2 | 1 | 2 | 1 | 1 |
| ## | 9406 | 9407 | 9408 | 9409 | 9410 | 9411 | 9412 | 9413 | 9414 | 9415 | 9416 | 9417 | 9418 |
| ## | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 2 | 1 | 1 | 1 | 1 | 1 |
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| ## | 9432 | 9433 | 9434 | 9435 | 9436 | 9437 | 9438 | 9439 | 9440 | 9441 | 9442 | 9443 | 9444 |
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| ## | 9445 | 9446 | 9447 | 9448 | 9449 | 9450 | 9451 | 9452 | 9453 | 9454 | 9455 | 9456 | 9457 |
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| ## | 9458 | 9459 | 9460 | 9461 | 9462 | 9463 | 9464 | 9465 | 9466 | 9467 | 9468 | 9469 | 9470 |
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| ## | 9471 | 9472 | 9473 | 9474 | 9475 | 9476 | 9477 | 9478 | 9479 | 9480 | 9481 | 9482 | 9483 |
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| ## | 9511 | 9512 | 9513 | 9514 | 9515 | 9516 | 9517 | 9518 | 9519 | 9520 | 9521 | 9522 | 9523 |
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| ## | 9524 | 9525 | 9526 | 9527 | 9528 | 9529 | 9530 | 9531 | 9532 | 9533 | 9534 | 9535 | 9536 |
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| ## | 9537 | 9538 | 9539 | 9540 | 9541 | 9542 | 9543 | 9544 | 9545 | 9546 | 9547 | 9548 | 9549 |
| ## | 1 | 2 | 1 | 2 | 1 | 1 | 1 | 2 | 1 | 2 | 1 | 1 | 2 |
| ## | 9550 | 9551 | 9553 | 9554 | 9555 | 9556 | 9557 | 9558 | 9559 | 9560 | 9561 | 9562 | 9563 |
| ## | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 2 |
| ## | 9564 | 9565 | 9566 | 9567 | 9568 | 9570 | 9571 | 9572 | 9573 | 9574 | 9575 | 9576 | 9577 |
| ## | 2 | 2 | 1 | 1 | 1 | 1 | 1 | 2 | 2 | 1 | 1 | 1 | 2 |
| ## | 9578 | 9579 | 9580 | 9581 | 9583 | 9584 | 9585 | 9586 | 9587 | 9588 | 9589 | 9590 | 9591 |
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| ## | 9592 | 9593 | 9594 | 9595 | 9596 | 9597 | 9598 | 9599 | 9600 | 9601 | 9602 | 9603 | 9604 |
| ## | 1 | 1 | 2 | 2 | 2 | 1 | 2 | 2 | 1 | 1 | 2 | 1 | 2 |
| ## | 9605 | 9606 | 9607 | 9608 | 9609 | 9610 | 9611 | 9612 | 9613 | 9614 | 9615 | 9616 | 9617 |
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| ## | 9670 | 9671 | 9672 | 9673 | 9674 | 9675 | 9676 | 9677 | 9678 | 9679 | 9680 | 9681 | 9682 |
| ## | 1 | 1 | 1 | 1 | 1 | 2 | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
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| ## | 1 | 1 | 1 | 1 | 1 | 1 | 2 | 2 | 2 | 1 | 1 | 1 | 1 |

| | | | | | | | | | | | | | |
|----|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| ## | 9696 | 9697 | 9698 | 9699 | 9700 | 9701 | 9702 | 9703 | 9704 | 9705 | 9706 | 9707 | 9708 |
| ## | 2 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 2 | 2 | 1 | 1 |
| ## | 9709 | 9710 | 9711 | 9712 | 9713 | 9714 | 9715 | 9716 | 9717 | 9718 | 9720 | 9721 | 9722 |
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| ## | 9736 | 9737 | 9738 | 9739 | 9740 | 9741 | 9742 | 9743 | 9744 | 9745 | 9746 | 9747 | 9748 |
| ## | 1 | 2 | 2 | 1 | 2 | 1 | 1 | 2 | 1 | 1 | 1 | 2 | 1 |
| ## | 9749 | 9750 | 9751 | 9752 | 9753 | 9754 | 9755 | 9756 | 9757 | 9758 | 9759 | 9760 | 9761 |
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| ## | 9841 | 9842 | 9843 | 9844 | 9845 | 9846 | 9847 | 9848 | 9849 | 9850 | 9851 | 9852 | 9853 |
| ## | 1 | 1 | 1 | 1 | 1 | 2 | 2 | 1 | 1 | 2 | 1 | 2 | 1 |
| ## | 9854 | 9855 | 9856 | 9857 | 9858 | 9859 | 9860 | 9861 | 9862 | 9863 | 9864 | 9865 | 9866 |
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| ## | 9867 | 9868 | 9869 | 9870 | 9871 | 9872 | 9873 | 9874 | 9875 | 9876 | 9877 | 9878 | 9880 |
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| ## | 9881 | 9882 | 9883 | 9884 | 9885 | 9886 | 9887 | 9888 | 9889 | 9890 | 9891 | 9892 | 9893 |
| ## | 2 | 2 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
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## 12196 12197 12198 12199 12200 12201 12202 12203 12204 12205 12206 12207 12208
##   1     1     1     1     1     1     1     1     1     1     2     1     1     1
## 12209 12210 12211 12212 12213 12214 12215 12216 12217 12218 12219 12220 12221
##   1     1     1     1     1     1     1     1     1     2     1     1     1     1
## 12222 12223 12224 12225 12226 12227 12228 12229 12230 12231 12232 12233 12234
##   2     1     1     2     1     1     1     1     1     1     2     1     1     2
## 12235 12236 12237 12238 12239 12240 12241 12242 12243 12244 12245 12246 12247
##   1     1     2     1     1     1     1     1     1     1     1     2     1     1
## 12248 12249 12250 12251 12252 12253 12254 12255 12256 12257 12258 12259 12260
##   2     1     1     1     1     1     1     1     1     2     1     1     1     1
## 12261 12262 12263 12264 12265 12266 12267 12268 12269 12270 12271 12272 12273
##   2     2     1     1     1     1     2     2     1     1     1     1     1     1
## 12274 12275 12276 12277 12278 12279 12280 12281 12282 12283 12284 12285 12286
##   1     1     1     1     1     2     1     1     1     2     2     1     1     2
## 12287 12288 12289 12290 12291 12292 12293 12294 12295 12296 12297 12298 12299
##   1     2     1     1     1     1     1     1     1     1     1     1     1     1
## 12300 12301 12302 12303 12304 12305 12306 12307 12308 12309 12310 12311 12312
##   1     1     1     1     1     1     1     1     1     2     1     1     1     2
## 12313 12314 12315 12316 12317 12318 12319 12320 12321 12322 12323 12324 12325
##   2     2     1     1     1     1     1     1     1     1     1     1     1     1
## 12326 12327 12328 12329 12330
##   1     1     1     1     1

```

Cluster Centers

```
# Cluster centers
ecom_k2$centers
```

```

##   Administrative Administrative_Duration Informational Informational_Duration
## 1      -0.2649682          -0.2183322       -0.2548877        -0.1979551
## 2      1.4654104           1.2074891       1.4096598         1.0947932
##   ProductRelated ProductRelated_Duration BounceRates ExitRates PageValues
## 1      -0.2419978          -0.2259343      0.05709621    0.08759168  -0.03775469
## 2      1.3383723           1.2495329      -0.31577136   -0.48442699    0.20880285
##   SpecialDay
## 1  0.02993599
## 2 -0.16556142

```

Cluster Size

```
# Cluster size
ecom_k2$size
```

```
## [1] 10331 1868
```

Between Cluster Sum of Squares

```
# Between clusters sum of square
ecom_k2$betweenss
```

```
## [1] 23268.88
```

Within Cluster Sum of Square

```
# Within cluster sum of square  
ecom_k2$withinss
```

```
## [1] 58193.83 40517.29
```

Total With Sum of Square

```
# Total with sum of square  
ecom_k2$tot.withinss
```

```
## [1] 98711.12
```

Total Sum of Square

```
# Total sum of square  
ecom_k2$totss
```

```
## [1] 121980
```

Comparing for different values of k

We cluster using different values of k

```
# using k = 3, center =3  
ecom_k3 <- kmeans(ecom_scaled, centers = 3, nstart = 25)  
  
# using k = 4, center =4  
ecom_k4 <- kmeans(ecom_scaled, centers = 4, nstart = 25)  
  
# using k = 5, center =5  
ecom_k5 <- kmeans(ecom_scaled, centers = 5, nstart = 25)
```

```
## Warning: Quick-TRANSfer stage steps exceeded maximum (= 609950)
```

Plotting the different clusters

```
p1 <- fviz_cluster(ecom_k2, geom = "point", data = ecom_scaled) + ggtitle(" K = 2")  
p2 <- fviz_cluster(ecom_k3, geom = "point", data = ecom_scaled) + ggtitle(" K = 3")  
p3 <- fviz_cluster(ecom_k4, geom = "point", data = ecom_scaled) + ggtitle(" K = 4")  
p4 <- fviz_cluster(ecom_k5, geom = "point", data = ecom_scaled) + ggtitle(" K = 5")  
  
library(grid)  
library(gridExtra)
```

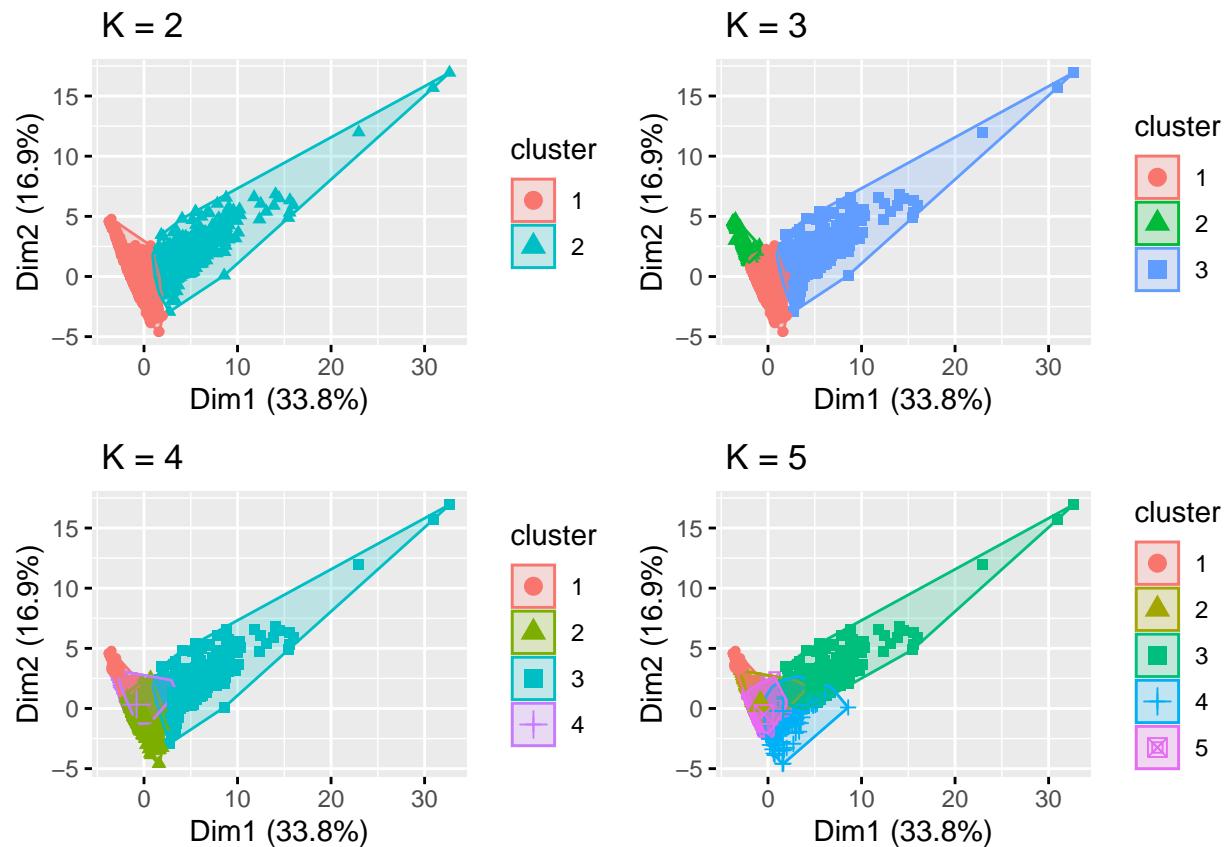
```
##  
## Attaching package: 'gridExtra'
```

```

## The following object is masked from 'package:dplyr':
##
##     combine

grid.arrange(p1, p2, p3, p4, nrow = 2)

```



Optimizing the K-Means Model

We will use the below methods to determine the optimal number of clusters

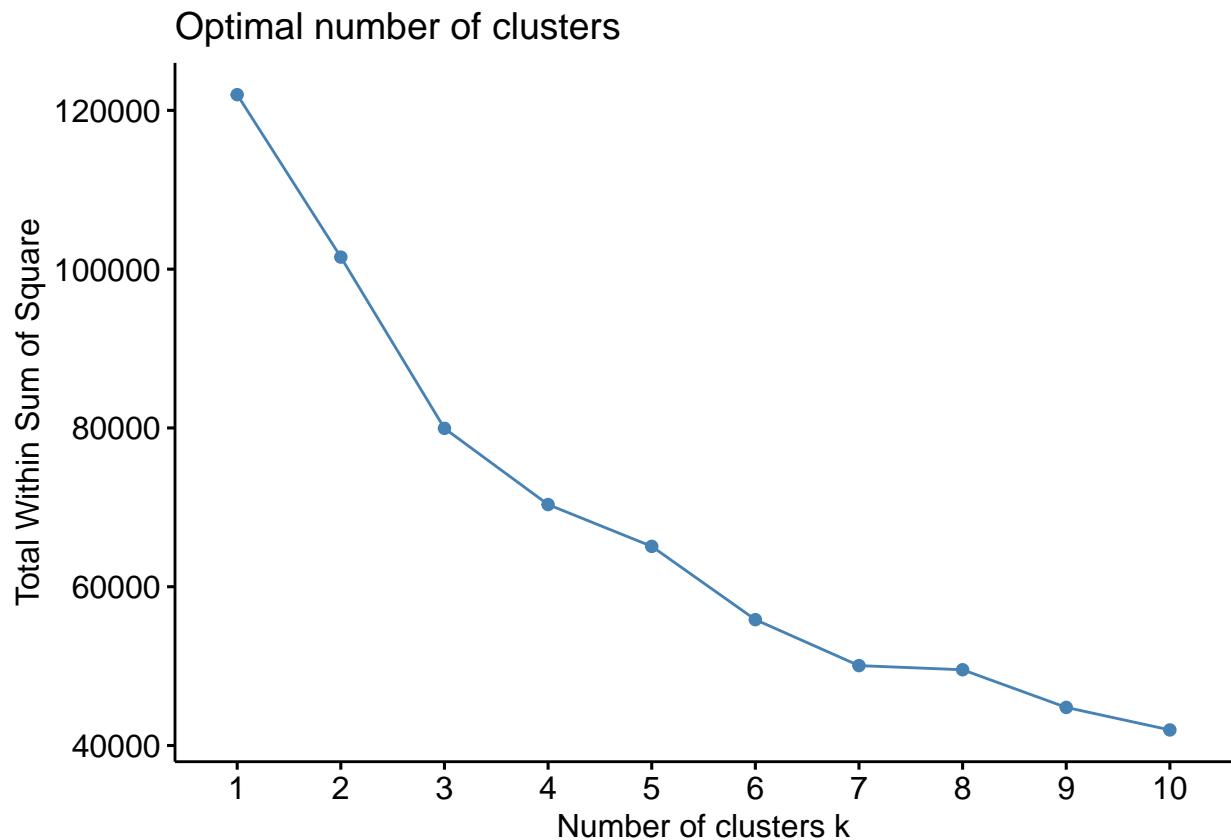
1. Elbow method
2. Silhouette method
3. Gap statistic

Using the Elbow Method

```

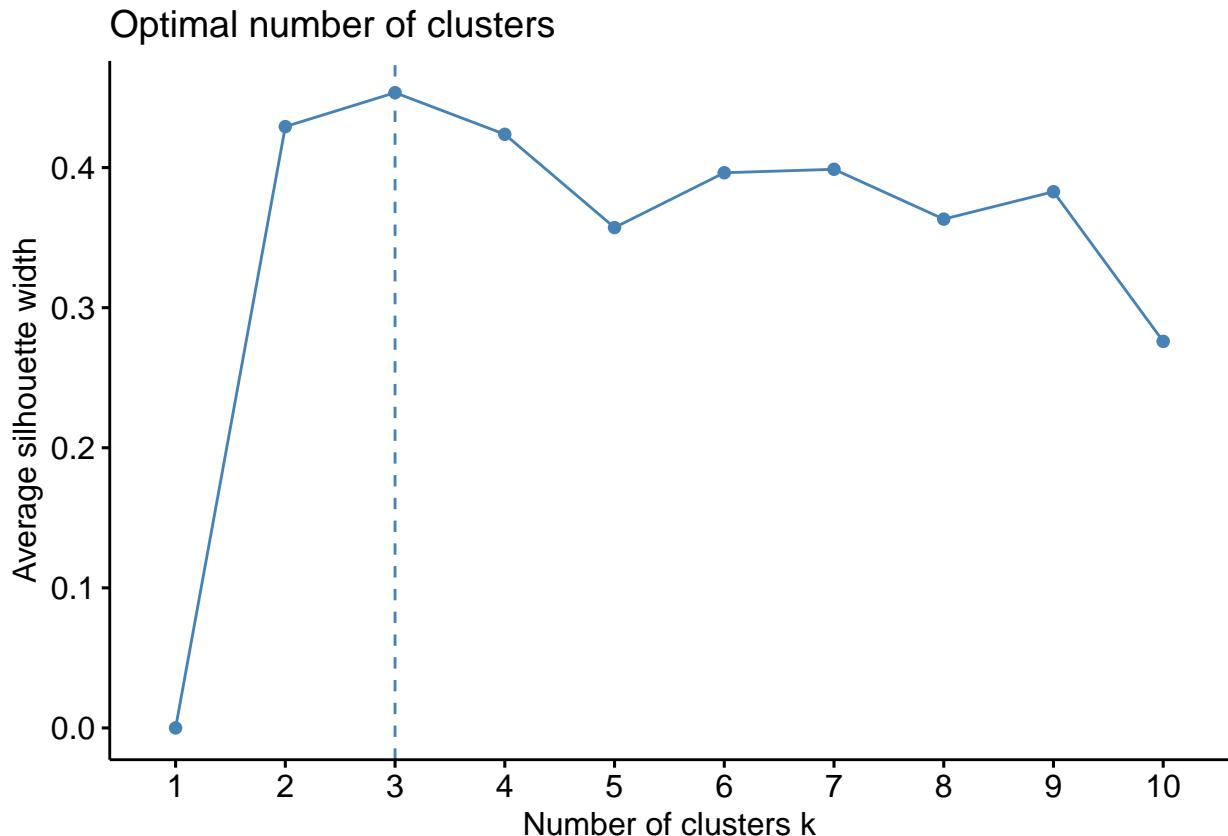
# Determining Optimal clusters (k) Using Elbow method
fviz_nbclust(x = ecom_scaled, FUNcluster = kmeans, method = 'wss' )

```



Using the Silhouette method

```
# Determining Optimal clusters (k) Using Elbow method
fviz_nbclust(x = ecom_scaled,FUNcluster = kmeans, method = 'silhouette' )
```



```
# Using the Gap-Static method
# compute gap statistic
set.seed(123)
gap_stat <- clusGap(x = ecom_scaled, FUN = kmeans, K.max = 15, nstart = 25, B = 20 )

# Print the result
#print(gap_stat, method = "firstmax")

# plot the result to determine the optimal number of clusters.
#fviz_gap_stat(gap_stat)
```

Optimized K-means cluster

The optimal number of clusters is 3 Fitting the model

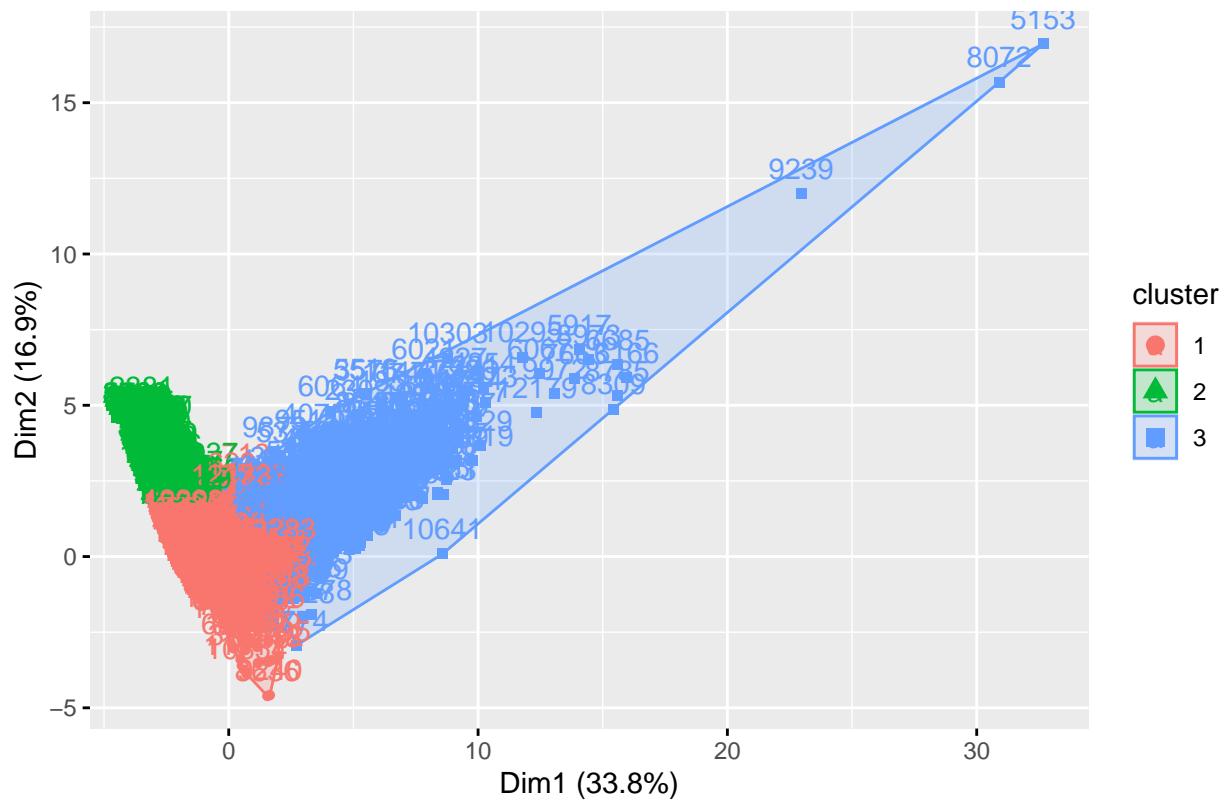
```
# Compute k-means clustering with k = 3
set.seed(123)
final <- kmeans(ecom_scaled, centers = 3, nstart = 25)

# previewing
#head(final)
```

Visualizing the final clusters

```
# plotting the final cluster
fviz_cluster(final, data = ecom_scaled)
```

Cluster plot



Extracting the clusters summaries

```
library(tibble)
tibble(ecom_scaled) %>%
  mutate(Cluster = final$cluster) %>%
  group_by(Cluster) %>%
  summarize_all('median')
```

```
## # A tibble: 3 x 2
##   Cluster ecom_scaled
##     <int>      <dbl>
## 1       1      -0.319
## 2       2      -0.319
## 3       3       0.0820
```

Heirachical Clustering

Preview dataset

```

# previewing our scaled dataset
head(ecom_scaled)

##   Administrative Administrative_Duration Informational Informational_Duration
## 1      -0.7025315       -0.4601081     -0.3988128      -0.2462725
## 2      -0.7025315       -0.4601081     -0.3988128      -0.2462725
## 3      -0.7025315       -0.4657410     -0.3988128      -0.2533417
## 4      -0.7025315       -0.4601081     -0.3988128      -0.2462725
## 5      -0.7025315       -0.4601081     -0.3988128      -0.2462725
## 6      -0.7025315       -0.4601081     -0.3988128      -0.2462725
##   ProductRelated ProductRelated_Duration  BounceRates ExitRates PageValues
## 1      -0.6963635       -0.6289343    3.954699721  3.4273070 -0.3190356
## 2      -0.6739424       -0.5955997   -0.450343788  1.2650121 -0.3190356
## 3      -0.6963635       -0.6294551    3.954699721  3.4273070 -0.3190356
## 4      -0.6739424       -0.6275453    0.650917089  2.1299300 -0.3190356
## 5      -0.4945739       -0.3020990   -0.009839437  0.1838646 -0.3190356
## 6      -0.2927843       -0.5486101   -0.102577188 -0.3661929 -0.3190356
##   SpecialDay
## 1 -0.3103105
## 2 -0.3103105
## 3 -0.3103105
## 4 -0.3103105
## 5 -0.3103105
## 6 -0.3103105

```

Euclidean Distance

```

# We compute the Euclidean distance using the function
# dist()
distance <- dist(ecom_scaled, method = "euclidean")

```

Hierarchical Clustering

```

# we perform hierarchical clustering
# using the function hclust() function and ward's method

ecom_hc <- hclust(distance, method = "ward.D2" )

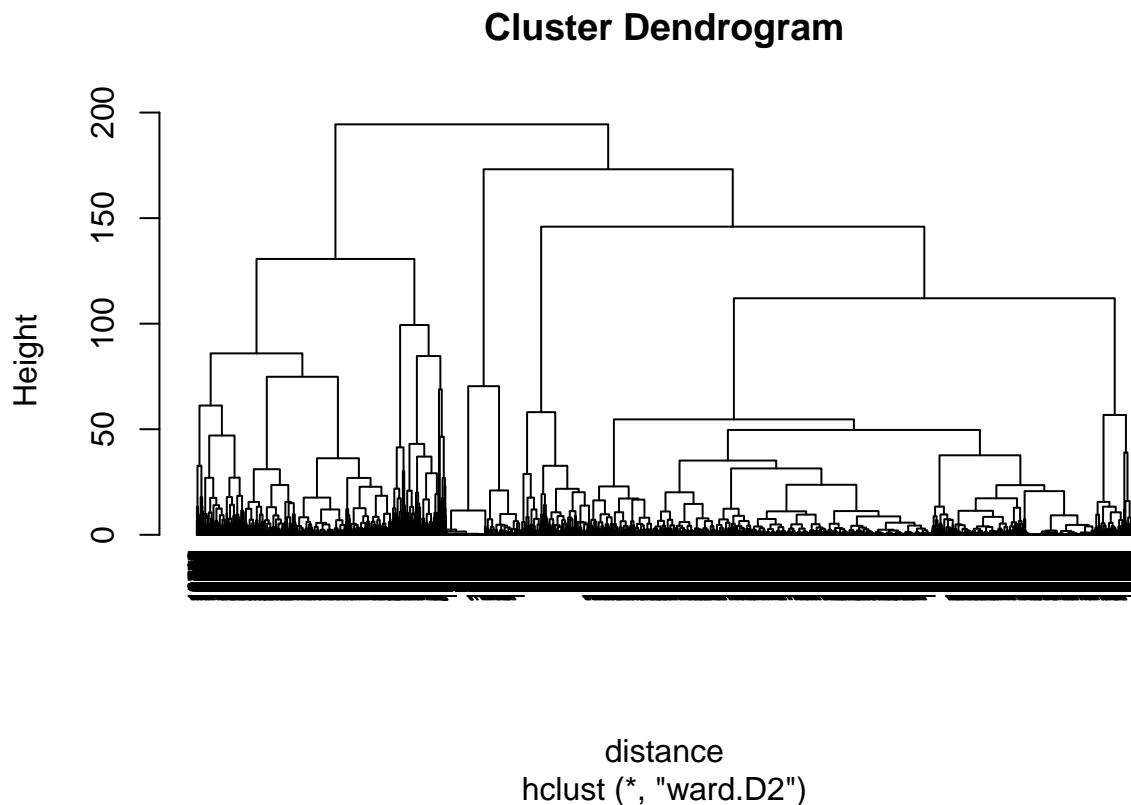
```

Plotting the dendrogram

```

# visualizing a dendrogram to show our hierarchical clustering
plot(ecom_hc, cex = 0.6, hang = -1)

```



Conclusion

The time spent on administrative pages was averagely 2.3, administrative duration 81.68, informational 0.5 units, informational duration 34.83 units. The bounce rates had an average of 0.02 units while exit rates had an average of 0.04 units.

The month of May had most visitors compared to other months. Most visitors were return visitors. Region type 1, browser type 2 and operating system 2 appeared the most

All the variables are positively skewed. Data from the administrative column is skewed to the right, with very steep values on the left. More people visited the Administrative page but did not spend so much time on the page.

Administrative Duration is slightly skewed to the right with high values on the left. This means that people spent slightly much time Administrative page.

Most people spent more time on the Informational pages. This means that most people who would enter the site from those pages would also trigger other requests, meaning that there were lower exit rates.

Most people would spend a good amount of time on the pages per session.

Pages with low values had people spend so much time on them before completing an e-commerce transaction.

Most people visited the pages before or after special days. May had the highest values followed by November. February and June had the lowest page visits.

Operation system 2 had the highest values followed by operation 1 and 3. Operation system 5 - 8 had very low values.

Browser 2 was the most used browser followed by browser 1. Browsers 3, 6-13 had the lowest users.

The traffic type is skewed to the right. Traffic type 2 had the most users followed by, traffic type 1 and 3. Traffic types 7, 9, 12, 14 - 19 had very low numbers of users

We created K-Means clusters of K -3 and optimized it using Elbow method and Silhouette method

The clusters have been visualized

Recommendation

The client should consider the following recommendations:

Increase stock in May November since they had the highest number of site visits. Consider putting more focus on the Informational pages as most people spent more time on the page.

They should also focus on Region type 1, browser type 2 and operating system 2, 1 and 3, as they had the high number of visits

Also since Most visitors who would visit the pages would come back, the client should consider identifying the area interest of such clients and maybe have customized commodities for them.

She should also identify what the new visitors like so she could target them on their next visit.

Since Most people visited the pages before or after special days, she could consider having active promotions to increase traffic on her pages.

Most of her site visitors used browser 2, followed by browser 1. The client is advised ton consider having her pages on these browsers as her default browser so she can reach her clients easily.

The type of traffic that had the most users was Traffic type 2, followed by, traffic type 1 and 3.

Follow Up Questions

a) Did we have the right data?

Yes, as the data was right since it was provided by the client.

b) Do we need other data to answer our question?

Another dataset would be helpful in this analysis as the variables that we had did not show any positive relationship with the target variable.

c) Did we have the right question?

Yes. The question was to help group the customers which we have done by k-means clustering and heirarchical clustering.