RWorksheet_Songaling#4c

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#1. Use the dataset mpg

#a. Show your solutions on how to import a csv file into the environment.

```r
library(readr)

mpgdata <- read.csv("mpg.csv")
```

#b. Which variables from mpg dataset are categorical?

```r
#1. Transmission
#2. Model
#3. class
#4. Drive Train
#5. Fuel type
#6. manufacturer
```

#c. Which are continuous variables?

```r
#The continuous variables are x, displ, year, cyl, cty and hwy.
```

#2. Which manufacturer has the most models in this data set? Which model has the most variations?Show your answer.

```r
library(ggplot2)

str(mpg)
```

```
## tibble [234 x 11] (S3: tbl_df/tbl/data.frame)
##  $ manufacturer: chr [1:234] "audi" "audi" "audi" "audi" ...
##  $ model       : chr [1:234] "a4" "a4" "a4" "a4" ...
##  $ displ       : num [1:234] 1.8 1.8 2 2 2.8 2.8 3.1 1.8 1.8 2 ...
##  $ year        : int [1:234] 1999 1999 2008 2008 1999 1999 2008 1999 1999 2008 ...
##  $ cyl         : int [1:234] 4 4 4 4 6 6 6 4 4 4 ...
##  $ trans       : chr [1:234] "auto(l5)" "manual(m5)" "manual(m6)" "auto(av)" ...
##  $ drv         : chr [1:234] "f" "f" "f" "f" ...
##  $ cty         : int [1:234] 18 21 20 21 16 18 18 18 16 20 ...
##  $ hwy         : int [1:234] 29 29 31 30 26 26 27 26 25 28 ...
##  $ fl          : chr [1:234] "p" "p" "p" "p" ...
##  $ class       : chr [1:234] "compact" "compact" "compact" "compact" ...
```

```r
manufacturer_model <- table(mpg$manufacturer)
manufacturer_max <- names(which.max(manufacturer_model))

cat("The manufacturer with the most models is:",manufacturer_max, "\n")
```

```
## The manufacturer with the most models is: dodge
```

```
#Finding model with the most variations.
manufacturer_maxdata <- subset(mpg, manufacturer==manufacturer_max)
models <- table(manufacturer_maxdata$model)

Models_mostvariation <- names(which.max(models))
cat("The model with the most variations:", Models_mostvariation, "\n")
```

The model with the most variations: caravan 2wd

#a. Group the manufacturers and find the unique models. Show your codes and result.

```
library(ggplot2)
library(dplyr)
```

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

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

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

```
manu_group <- mpg%>%
  group_by(manufacturer)%>%
  summarize(uniquemodel = n_distinct(model))

print(manu_group)
```

```
## # A tibble: 15 x 2
##    manufacturer uniquemodel
##    <chr>              <int>
##  1 audi                   3
##  2 chevrolet              4
##  3 dodge                  4
##  4 ford                   4
##  5 honda                  1
##  6 hyundai                2
##  7 jeep                   1
##  8 land rover             1
##  9 lincoln                1
## 10 mercury                1
## 11 nissan                 3
## 12 pontiac                1
## 13 subaru                 2
## 14 toyota                 6
## 15 volkswagen             4
```
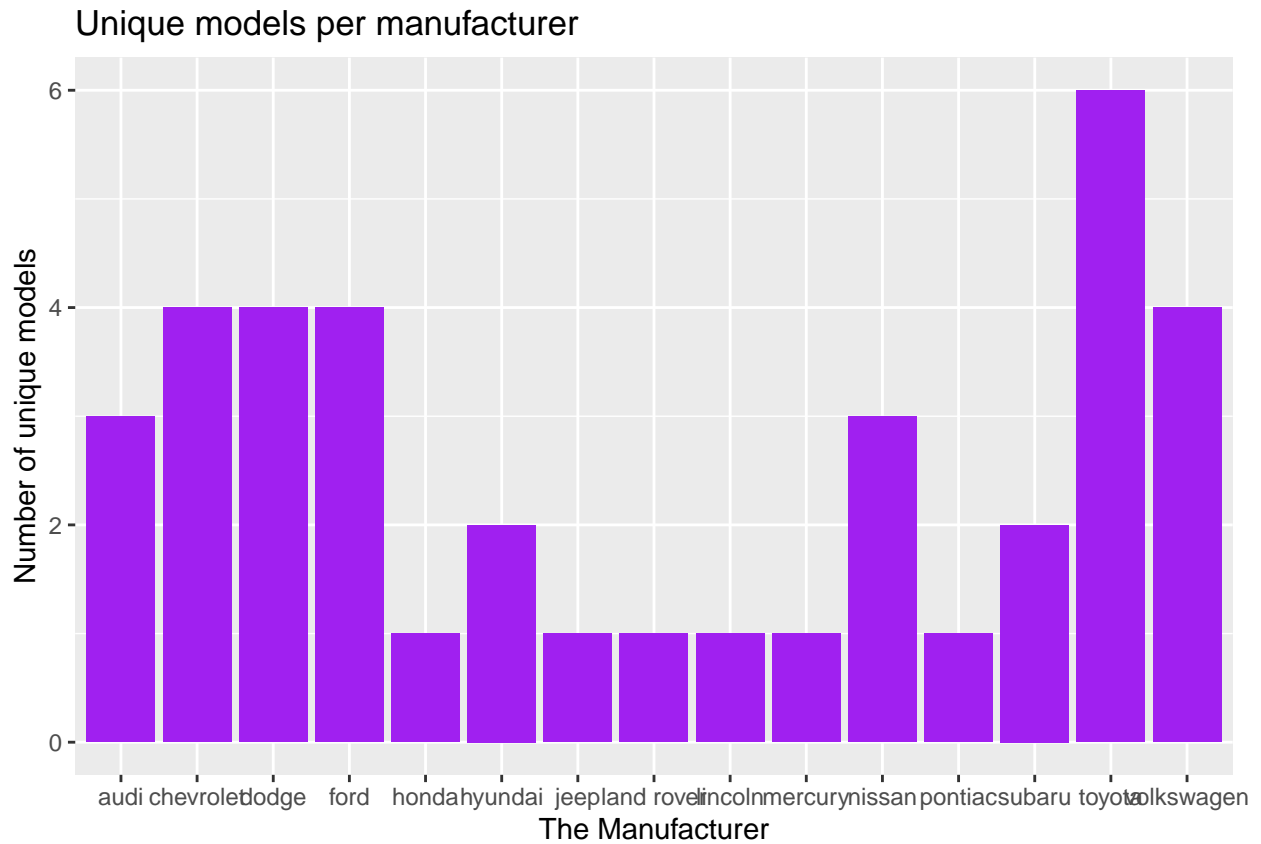
#b. Graph the result by using plot() and ggplot(). Write the codes and its result.

```
library(ggplot2)
ggplot(manu_group, aes(x=manufacturer,y = uniquemodel))+
  geom_bar(stat = "Identity",fill = "purple")+
  labs(title = "Unique models per manufacturer",
       x = "The Manufacturer",
```
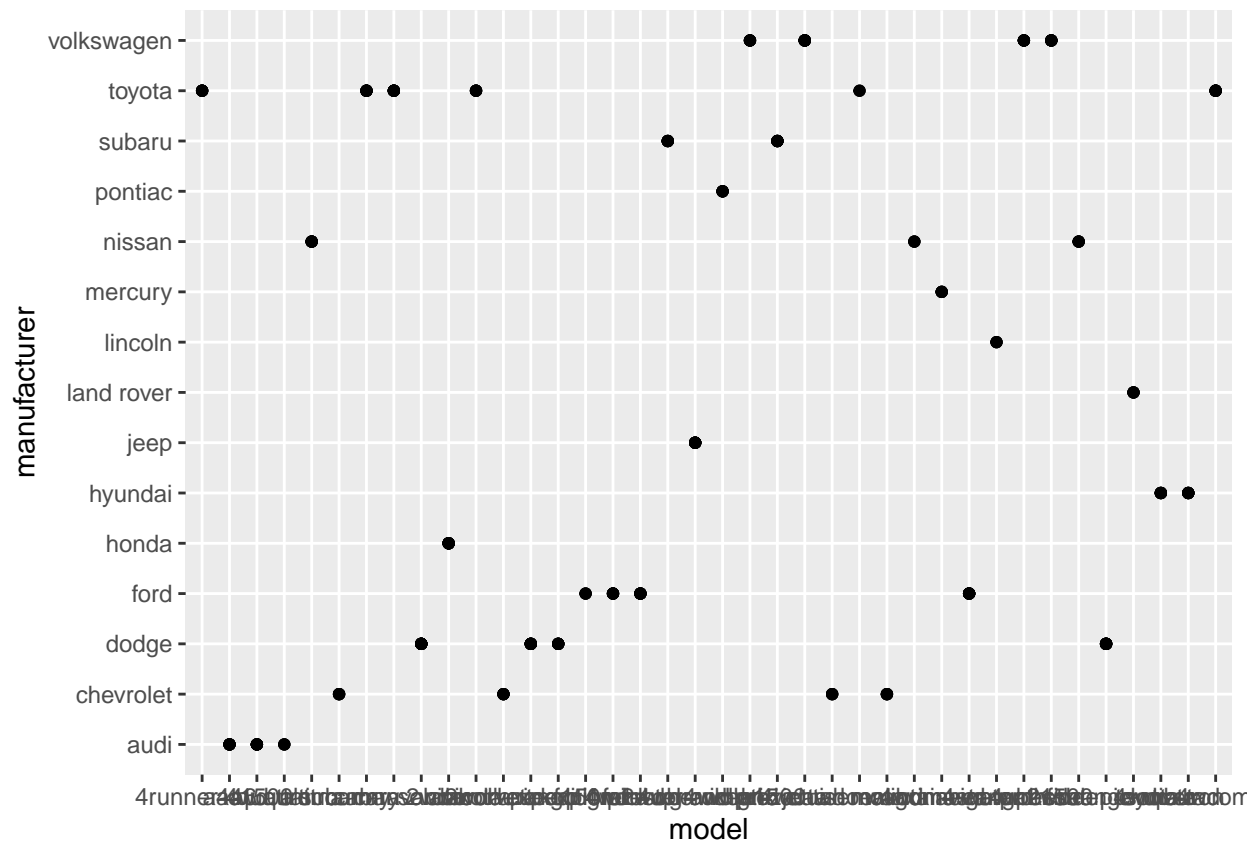
```
        y = "Number of unique models")+
theme_gray()
```

Unique models per manufacturer

#2. Same dataset will be used. You are going to show the relationship of the model and the manufacturer.
#a. What does ggplot(mpg, aes(model, manufacturer)) + geom_point() show?

```
ggplot(mpg, aes(model, manufacturer)) + geom_point()
```

#b. For you, is it useful? If not, how could you modify the data to make it more informative?

#For me, it is useful because it displays information about the models and their manufacturers.

#3. Plot the model and the year using ggplot(). Use only the top 20 observations. Write the codes and its results.

```r
library(ggplot2)

top_20obs <- head(mpg,20)

ggplot(top_20obs, aes(x = model, y = year))+
  geom_point()+
  labs(title = "Model and Year(Top 20 observations)",
       x = "Model",
       y= "Year")+
  theme(axis.text.x = element_text(angle = 45,hjust = 1))
```

4

Model and Year(Top 20 observations)
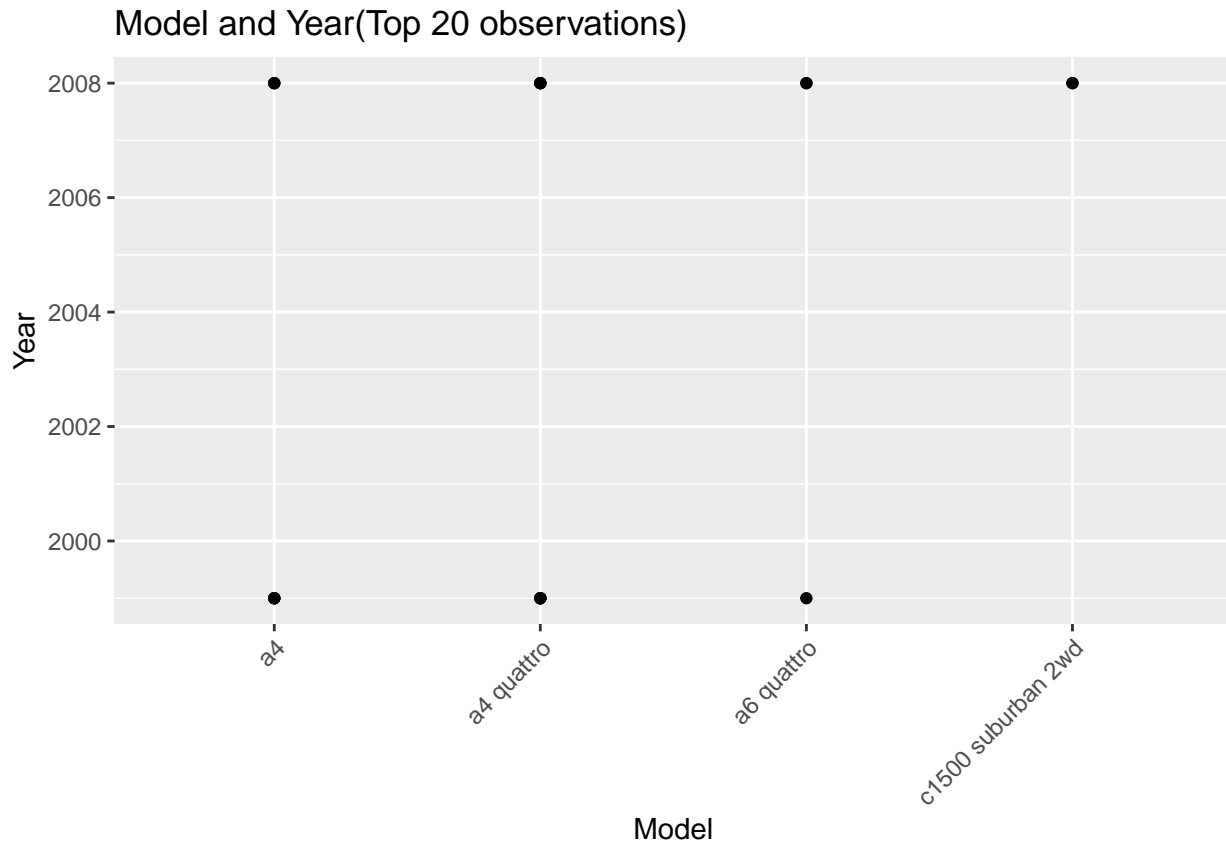
#4. Using the pipe (%>%), group the model and get the number of cars per model. Show codes and its result.

```r
library(dplyr)
groups_modeldata <- mpg%>%
  group_by(manufacturer)


print(groups_modeldata)
```

```
## # A tibble: 234 x 11
## # Groups:   manufacturer [15]
##    manufacturer model      displ  year   cyl trans drv     cty   hwy fl    class
##    <chr>        <chr>      <dbl> <int> <int> <chr> <chr> <int> <int> <chr> <chr>
##  1 audi         a4           1.8  1999     4 auto~ f        18    29 p     comp~
##  2 audi         a4           1.8  1999     4 manu~ f        21    29 p     comp~
##  3 audi         a4           2    2008     4 manu~ f        20    31 p     comp~
##  4 audi         a4           2    2008     4 auto~ f        21    30 p     comp~
##  5 audi         a4           2.8  1999     6 auto~ f        16    26 p     comp~
##  6 audi         a4           2.8  1999     6 manu~ f        18    26 p     comp~
##  7 audi         a4           3.1  2008     6 auto~ f        18    27 p     comp~
##  8 audi         a4 quattro   1.8  1999     4 manu~ 4        18    26 p     comp~
##  9 audi         a4 quattro   1.8  1999     4 auto~ 4        16    25 p     comp~
## 10 audi         a4 quattro   2    2008     4 manu~ 4        20    28 p     comp~
## # i 224 more rows
```

#a. Plot using geom_bar() using the top 20 observations only. The graphs shoudl have a title, labels and colors. Show code and results.
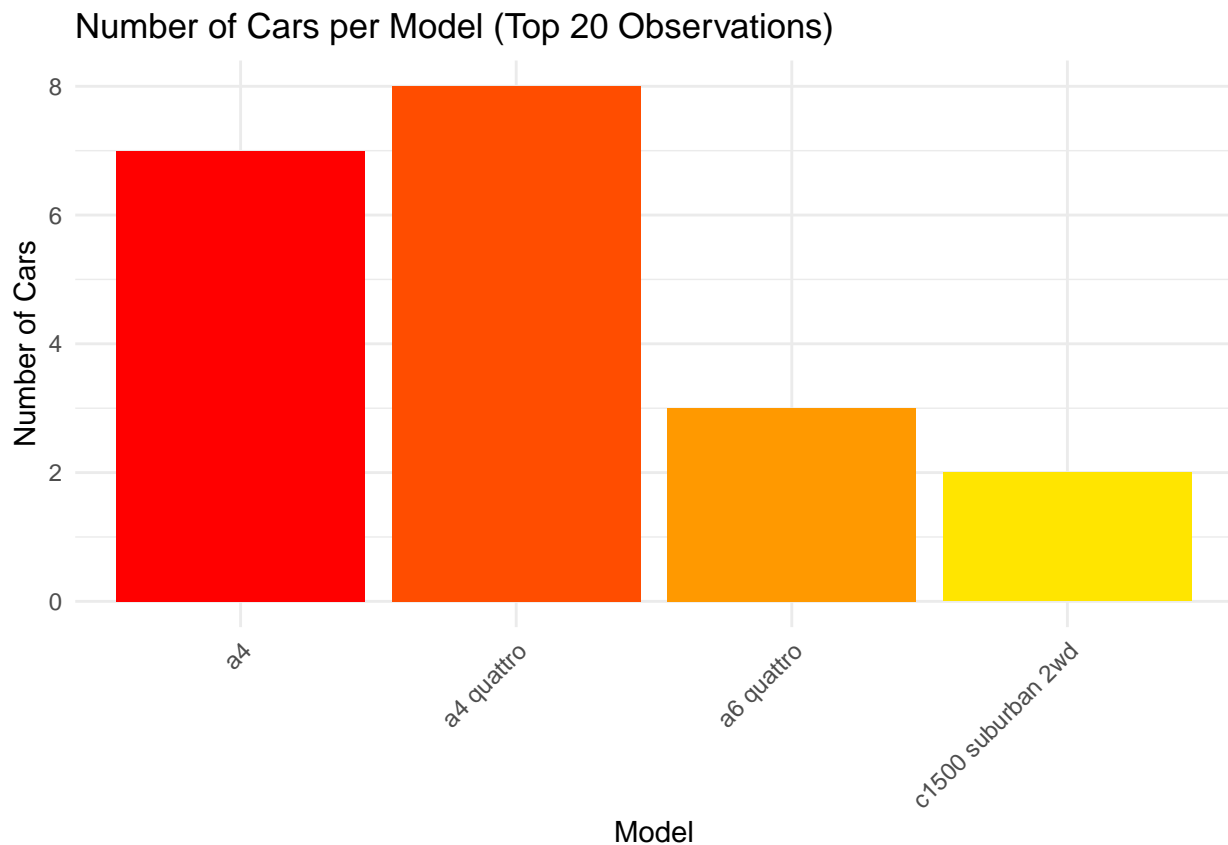
```
library(dplyr)
library(ggplot2)

data(mpgdata)
```

Warning in data(mpgdata): data set 'mpgdata' not found

```
top_20obs <- head(mpg,20)

ggplot(top_20obs, aes(x = model, fill = model)) +
  geom_bar() +
  labs(title = "Number of Cars per Model (Top 20 Observations)",
       x = "Model",
       y = "Number of Cars") +
  theme_minimal() +
  theme(axis.text.x = element_text(angle = 45, hjust = 1), legend.position = "none") +
  scale_fill_manual(values = rainbow(nrow(top_20obs)))
```

Number of Cars per Model (Top 20 Observations)

#b. Plot using the geom_bar() + coord_flip() just like what is shown below. Show codes and its result.

```
library(dplyr)
library(ggplot2)

data(mpgdata)
```

Warning in data(mpgdata): data set 'mpgdata' not found

```
top_20obs <- head(mpg,20)
```

```r
ggplot(top_20obs, aes(x = model, fill = model)) +
  geom_bar() +
  labs(title = "Number of Cars per Model (Top 20 Observations)",
       x = "Number of Cars",
       y = "Model") +
  theme_minimal() +
  theme(legend.position = "none") +
  scale_fill_manual(values = rainbow(nrow(top_20obs))) +
  coord_flip()
```
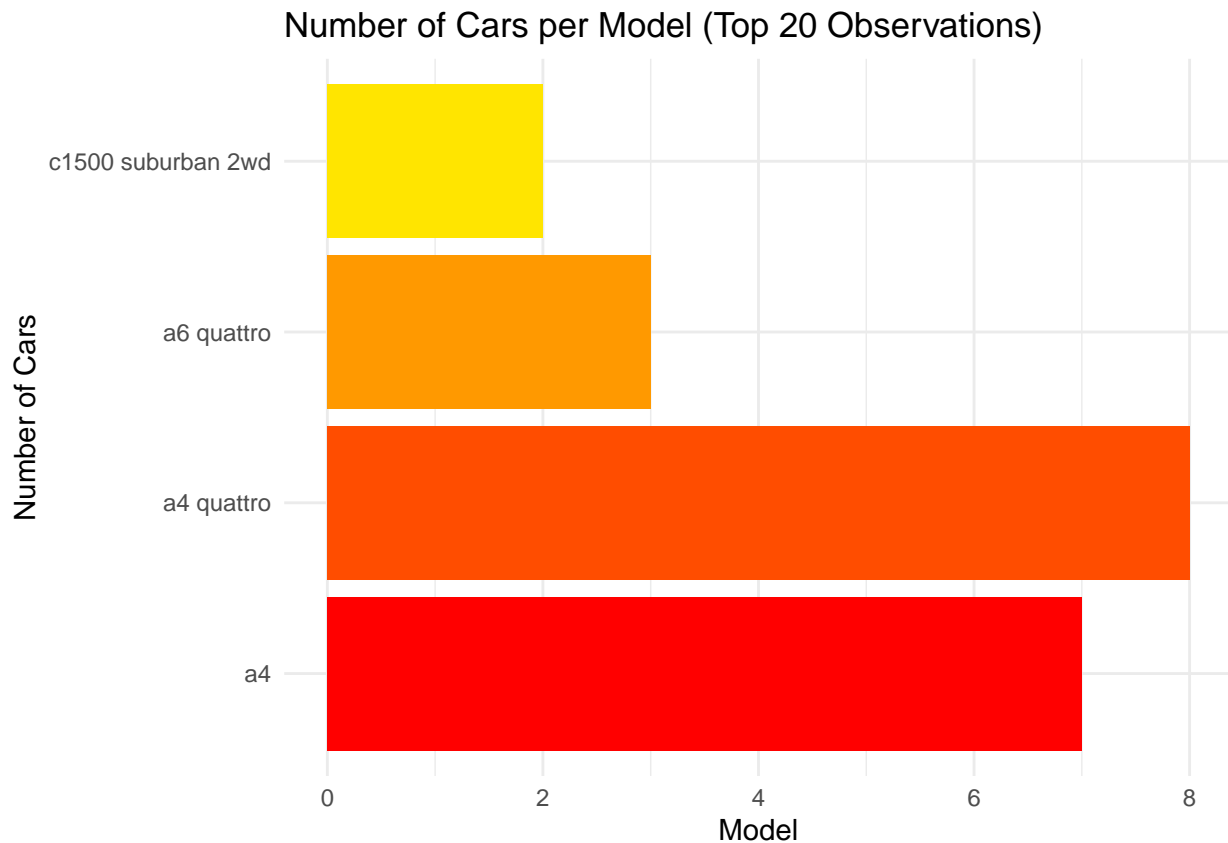

#5. Plot the relationship between cyl - number of cylinders and displ - engine displacement usinggeom_point with aesthetic color = engine displacement. Title should be "Relationship between No. of Cylinders and Engine Displacement".

```r
library(ggplot2)

ggplot(mpg, aes(x = cyl, y = displ, color = displ)) +
  geom_point() +
  labs(title = "Relationship between No. of Cylinders and Engine Displacement",
       x = "Number of Cylinders",
       y = "Engine Displacement") +
  scale_color_continuous(name = "Engine Displacement") +
  theme_minimal()
```

Relationship between No. of Cylinders and Engine Displacement
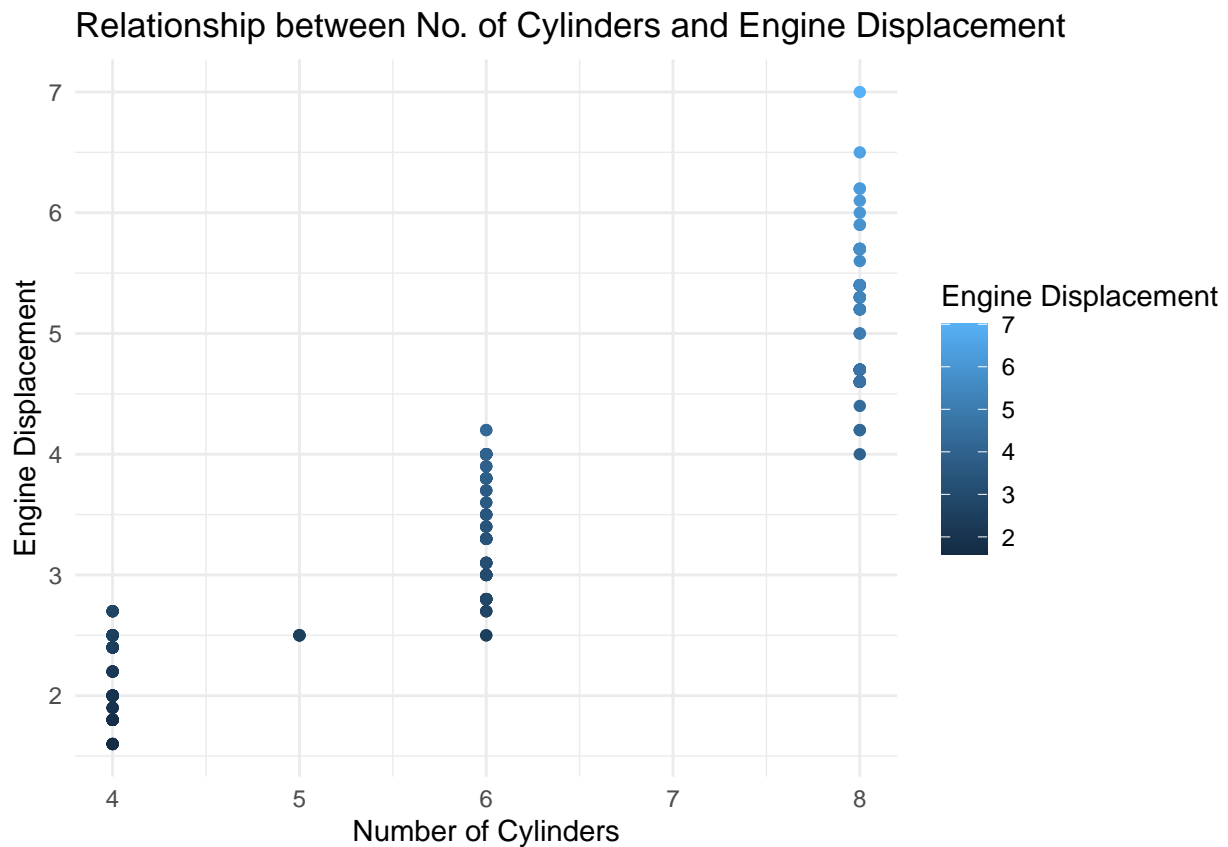
#a. How would you describe its relationship? Show the codes and its result.

```
cyl_displ_relationship <- cor(mpg$cyl , mpg$displ)

cat("Correlation Coefficient:", cyl_displ_relationship, "\n")
```

```
## Correlation Coefficient: 0.9302271
```

```
library(ggplot2)
ggplot(mpg, aes(x = cyl, y = displ, color = displ)) +
  geom_point() +
  geom_smooth(method = "lm", se = FALSE, color = "red") +
  labs(title = "Relationship between No. of Cylinders and Engine Displacement",
       x = "Number of Cylinders",
       y = "Engine Displacement") +
  scale_color_continuous(name = "Engine Displacement") +
  theme_minimal()
```

```
## `geom_smooth()` using formula = 'y ~ x'
```

Relationship between No. of Cylinders and Engine Displacement
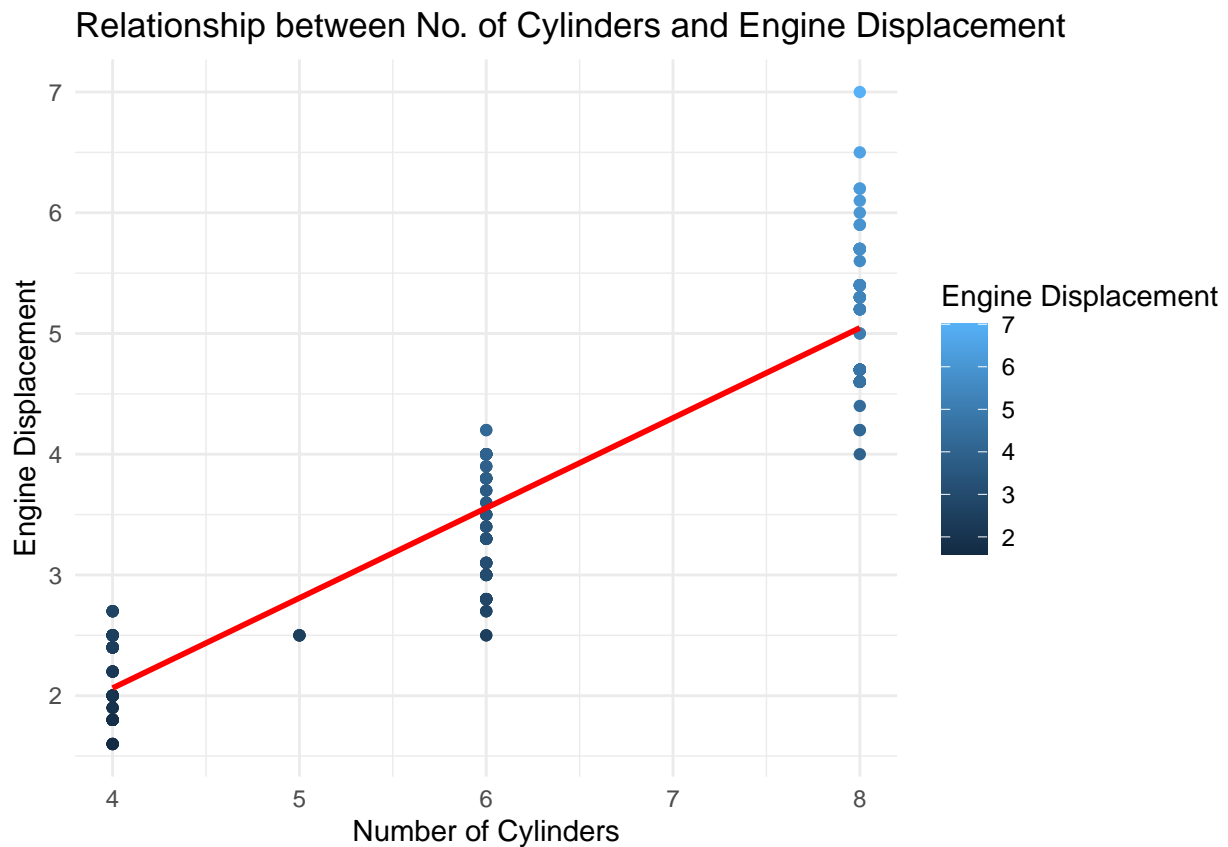

```
#As the number of cylinders increases, the engine displacement also increases.
```

#6. Plot the relationship between displ (engine displacement) and hwy(highway miles per gallon). Mapped it with a continuous variable you have identified in #1-c. What is its result? Why it produced such output?

```
ggplot(mpg, aes(x = displ, y = hwy, color = year)) +
  geom_point() +
  labs(title = "Relationship between Engine Displacement and Highway MPG",
       x = "Engine Displacement",
       y = "Highway MPG") +
  scale_color_gradient(low="blue",high="violet") +
  theme_minimal()
```

Relationship between Engine Displacement and Highway MPG
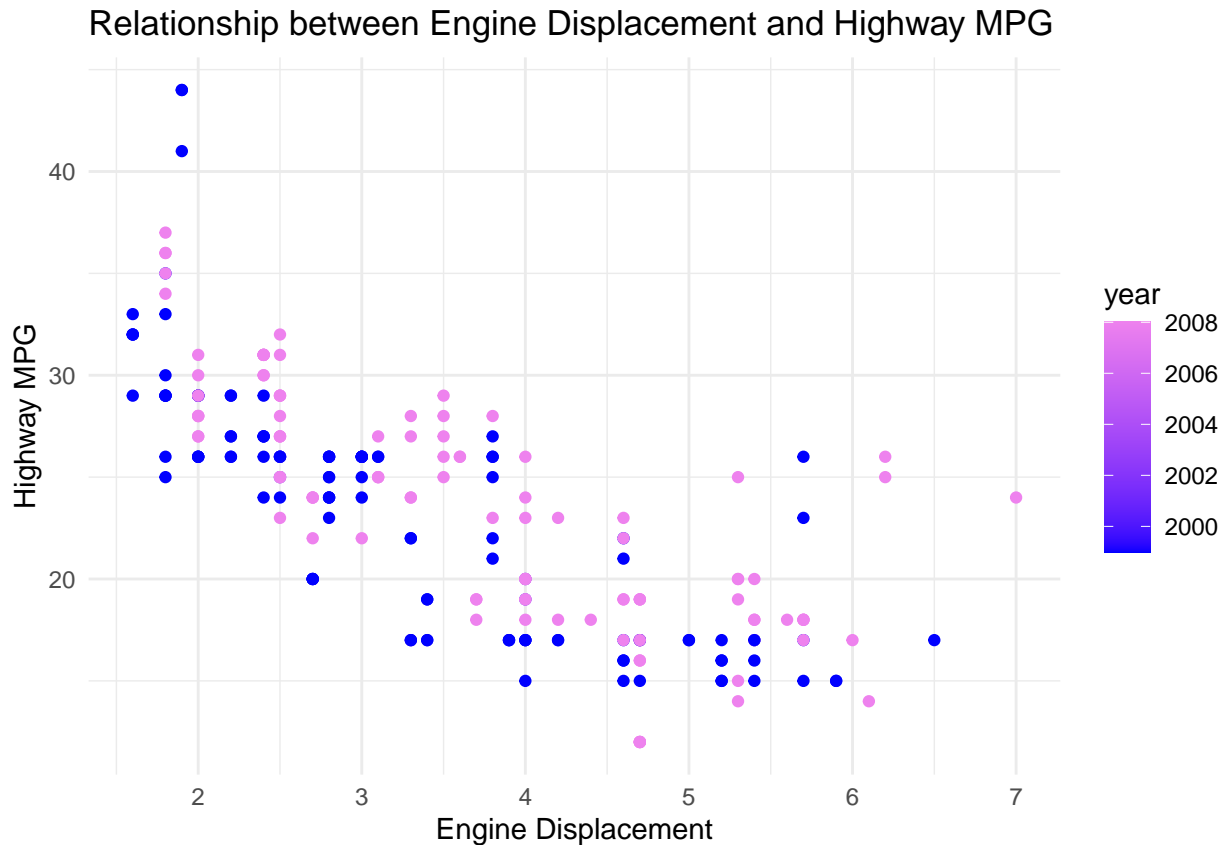
#6. Import the traffic.csv onto your R environment. #a. How many numbers of observation does it have? What are the variables of the traffic dataset. Show your answer.

```r
traffic_data <- read.csv("traffic.csv")

obsv_num <- nrow(traffic_data)
traffic_vars <- ncol(traffic_data)
var_names <- names(traffic_data)

cat("Number of Observations:", obsv_num, "\n")
```

```
## Number of Observations: 48120
```

```r
cat("Number of Variables:", traffic_vars, "\n")
```

```
## Number of Variables: 4
```

```r
cat("Variables:", paste(var_names, collapse = ", "), "\n")
```

```
## Variables: DateTime, Junction, Vehicles, ID
```

#b. subset the traffic dataset into junctions. What is the R codes and its output?

```r
traffic_junc <- c(1,2,3,4)

junction_subset <- traffic_data[traffic_data$Junction %in% traffic_junc, ]

junction_subset
```

```
##                  DateTime Junction Vehicles         ID
## 1     2015-11-01 00:00:00        1       15 20151101001
```

```
## 2    2015-11-01 01:00:00        1        13 20151101011
## 3    2015-11-01 02:00:00        1        10 20151101021
## 4    2015-11-01 03:00:00        1         7 20151101031
## 5    2015-11-01 04:00:00        1         9 20151101041
## 6    2015-11-01 05:00:00        1         6 20151101051
## 7    2015-11-01 06:00:00        1         9 20151101061
## 8    2015-11-01 07:00:00        1         8 20151101071
## 9    2015-11-01 08:00:00        1        11 20151101081
## 10   2015-11-01 09:00:00        1        12 20151101091
## 11   2015-11-01 10:00:00        1        15 20151101101
## 12   2015-11-01 11:00:00        1        17 20151101111
## 13   2015-11-01 12:00:00        1        16 20151101121
## 14   2015-11-01 13:00:00        1        15 20151101131
## 15   2015-11-01 14:00:00        1        16 20151101141
## 16   2015-11-01 15:00:00        1        12 20151101151
## 17   2015-11-01 16:00:00        1        12 20151101161
## 18   2015-11-01 17:00:00        1        16 20151101171
## 19   2015-11-01 18:00:00        1        17 20151101181
## 20   2015-11-01 19:00:00        1        20 20151101191
## 21   2015-11-01 20:00:00        1        17 20151101201
## 22   2015-11-01 21:00:00        1        19 20151101211
## 23   2015-11-01 22:00:00        1        20 20151101221
## 24   2015-11-01 23:00:00        1        15 20151101231
## 25   2015-11-02 00:00:00        1        14 20151102001
## 26   2015-11-02 01:00:00        1        12 20151102011
## 27   2015-11-02 02:00:00        1        14 20151102021
## 28   2015-11-02 03:00:00        1        12 20151102031
## 29   2015-11-02 04:00:00        1        12 20151102041
## 30   2015-11-02 05:00:00        1        11 20151102051
## 31   2015-11-02 06:00:00        1        13 20151102061
## 32   2015-11-02 07:00:00        1        14 20151102071
## 33   2015-11-02 08:00:00        1        12 20151102081
## 34   2015-11-02 09:00:00        1        22 20151102091
## 35   2015-11-02 10:00:00        1        32 20151102101
## 36   2015-11-02 11:00:00        1        31 20151102111
## 37   2015-11-02 12:00:00        1        35 20151102121
## 38   2015-11-02 13:00:00        1        26 20151102131
## 39   2015-11-02 14:00:00        1        34 20151102141
## 40   2015-11-02 15:00:00        1        30 20151102151
## 41   2015-11-02 16:00:00        1        27 20151102161
## 42   2015-11-02 17:00:00        1        27 20151102171
## 43   2015-11-02 18:00:00        1        24 20151102181
## 44   2015-11-02 19:00:00        1        26 20151102191
## 45   2015-11-02 20:00:00        1        29 20151102201
## 46   2015-11-02 21:00:00        1        32 20151102211
## 47   2015-11-02 22:00:00        1        30 20151102221
## 48   2015-11-02 23:00:00        1        27 20151102231
## 49   2015-11-03 00:00:00        1        21 20151103001
## 50   2015-11-03 01:00:00        1        18 20151103011
## 51   2015-11-03 02:00:00        1        19 20151103021
## 52   2015-11-03 03:00:00        1        13 20151103031
## 53   2015-11-03 04:00:00        1        11 20151103041
## 54   2015-11-03 05:00:00        1        11 20151103051
## 55   2015-11-03 06:00:00        1        11 20151103061
```

```
## 56    2015-11-03 07:00:00        1        14 20151103071
## 57    2015-11-03 08:00:00        1        15 20151103081
## 58    2015-11-03 09:00:00        1        29 20151103091
## 59    2015-11-03 10:00:00        1        33 20151103101
## 60    2015-11-03 11:00:00        1        32 20151103111
## 61    2015-11-03 12:00:00        1        32 20151103121
## 62    2015-11-03 13:00:00        1        29 20151103131
## 63    2015-11-03 14:00:00        1        27 20151103141
## 64    2015-11-03 15:00:00        1        26 20151103151
## 65    2015-11-03 16:00:00        1        28 20151103161
## 66    2015-11-03 17:00:00        1        26 20151103171
## 67    2015-11-03 18:00:00        1        25 20151103181
## 68    2015-11-03 19:00:00        1        29 20151103191
## 69    2015-11-03 20:00:00        1        26 20151103201
## 70    2015-11-03 21:00:00        1        24 20151103211
## 71    2015-11-03 22:00:00        1        25 20151103221
## 72    2015-11-03 23:00:00        1        20 20151103231
## 73    2015-11-04 00:00:00        1        18 20151104001
## 74    2015-11-04 01:00:00        1        18 20151104011
## 75    2015-11-04 02:00:00        1        13 20151104021
## 76    2015-11-04 03:00:00        1        13 20151104031
## 77    2015-11-04 04:00:00        1        10 20151104041
## 78    2015-11-04 05:00:00        1        12 20151104051
## 79    2015-11-04 06:00:00        1        13 20151104061
## 80    2015-11-04 07:00:00        1        11 20151104071
## 81    2015-11-04 08:00:00        1        13 20151104081
## 82    2015-11-04 09:00:00        1        22 20151104091
## 83    2015-11-04 10:00:00        1        26 20151104101
## 84    2015-11-04 11:00:00        1        27 20151104111
## 85    2015-11-04 12:00:00        1        31 20151104121
## 86    2015-11-04 13:00:00        1        24 20151104131
## 87    2015-11-04 14:00:00        1        23 20151104141
## 88    2015-11-04 15:00:00        1        26 20151104151
## 89    2015-11-04 16:00:00        1        26 20151104161
## 90    2015-11-04 17:00:00        1        24 20151104171
## 91    2015-11-04 18:00:00        1        23 20151104181
## 92    2015-11-04 19:00:00        1        25 20151104191
## 93    2015-11-04 20:00:00        1        26 20151104201
## 94    2015-11-04 21:00:00        1        24 20151104211
## 95    2015-11-04 22:00:00        1        26 20151104221
## 96    2015-11-04 23:00:00        1        24 20151104231
## 97    2015-11-05 00:00:00        1        19 20151105001
## 98    2015-11-05 01:00:00        1        20 20151105011
## 99    2015-11-05 02:00:00        1        18 20151105021
## 100   2015-11-05 03:00:00        1        13 20151105031
## 101   2015-11-05 04:00:00        1        13 20151105041
## 102   2015-11-05 05:00:00        1         9 20151105051
## 103   2015-11-05 06:00:00        1        12 20151105061
## 104   2015-11-05 07:00:00        1        12 20151105071
## 105   2015-11-05 08:00:00        1        15 20151105081
## 106   2015-11-05 09:00:00        1        16 20151105091
## 107   2015-11-05 10:00:00        1        23 20151105101
## 108   2015-11-05 11:00:00        1        24 20151105111
## 109   2015-11-05 12:00:00        1        25 20151105121
```

```
## 110   2015-11-05 13:00:00       1      24 20151105131
## 111   2015-11-05 14:00:00       1      26 20151105141
## 112   2015-11-05 15:00:00       1      22 20151105151
## 113   2015-11-05 16:00:00       1      20 20151105161
## 114   2015-11-05 17:00:00       1      20 20151105171
## 115   2015-11-05 18:00:00       1      22 20151105181
## 116   2015-11-05 19:00:00       1      26 20151105191
## 117   2015-11-05 20:00:00       1      22 20151105201
## 118   2015-11-05 21:00:00       1      21 20151105211
## 119   2015-11-05 22:00:00       1      21 20151105221
## 120   2015-11-05 23:00:00       1      21 20151105231
## 121   2015-11-06 00:00:00       1      16 20151106001
## 122   2015-11-06 01:00:00       1      18 20151106011
## 123   2015-11-06 02:00:00       1      19 20151106021
## 124   2015-11-06 03:00:00       1      14 20151106031
## 125   2015-11-06 04:00:00       1      12 20151106041
## 126   2015-11-06 05:00:00       1      13 20151106051
## 127   2015-11-06 06:00:00       1      14 20151106061
## 128   2015-11-06 07:00:00       1      14 20151106071
## 129   2015-11-06 08:00:00       1      13 20151106081
## 130   2015-11-06 09:00:00       1      20 20151106091
## 131   2015-11-06 10:00:00       1      22 20151106101
## 132   2015-11-06 11:00:00       1      26 20151106111
## 133   2015-11-06 12:00:00       1      26 20151106121
## 134   2015-11-06 13:00:00       1      21 20151106131
## 135   2015-11-06 14:00:00       1      23 20151106141
## 136   2015-11-06 15:00:00       1      23 20151106151
## 137   2015-11-06 16:00:00       1      19 20151106161
## 138   2015-11-06 17:00:00       1      19 20151106171
## 139   2015-11-06 18:00:00       1      20 20151106181
## 140   2015-11-06 19:00:00       1      24 20151106191
## 141   2015-11-06 20:00:00       1      18 20151106201
## 142   2015-11-06 21:00:00       1      19 20151106211
## 143   2015-11-06 22:00:00       1      16 20151106221
## 144   2015-11-06 23:00:00       1      17 20151106231
## 145   2015-11-07 00:00:00       1      16 20151107001
## 146   2015-11-07 01:00:00       1      16 20151107011
## 147   2015-11-07 02:00:00       1      10 20151107021
## 148   2015-11-07 03:00:00       1       9 20151107031
## 149   2015-11-07 04:00:00       1       8 20151107041
## 150   2015-11-07 05:00:00       1       7 20151107051
## 151   2015-11-07 06:00:00       1       9 20151107061
## 152   2015-11-07 07:00:00       1       8 20151107071
## 153   2015-11-07 08:00:00       1      12 20151107081
## 154   2015-11-07 09:00:00       1      13 20151107091
## 155   2015-11-07 10:00:00       1      17 20151107101
## 156   2015-11-07 11:00:00       1      14 20151107111
## 157   2015-11-07 12:00:00       1      14 20151107121
## 158   2015-11-07 13:00:00       1      14 20151107131
## 159   2015-11-07 14:00:00       1      14 20151107141
## 160   2015-11-07 15:00:00       1      11 20151107151
## 161   2015-11-07 16:00:00       1      15 20151107161
## 162   2015-11-07 17:00:00       1      13 20151107171
## 163   2015-11-07 18:00:00       1      12 20151107181
```

```
## 164    2015-11-07 19:00:00         1       17 20151107191
## 165    2015-11-07 20:00:00         1       18 20151107201
## 166    2015-11-07 21:00:00         1       17 20151107211
## 167    2015-11-07 22:00:00         1       16 20151107221
## 168    2015-11-07 23:00:00         1       15 20151107231
## 169    2015-11-08 00:00:00         1       13 20151108001
## 170    2015-11-08 01:00:00         1       16 20151108011
## 171    2015-11-08 02:00:00         1       11 20151108021
## 172    2015-11-08 03:00:00         1        8 20151108031
## 173    2015-11-08 04:00:00         1       10 20151108041
## 174    2015-11-08 05:00:00         1       10 20151108051
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## 1881   2016-01-18 08:00:00        1       22 20160118081
## 1882   2016-01-18 09:00:00        1       35 20160118091
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## 1885   2016-01-18 12:00:00        1       45 20160118121
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## 1888   2016-01-18 15:00:00        1       38 20160118151
## 1889   2016-01-18 16:00:00        1       38 20160118161
## 1890   2016-01-18 17:00:00        1       34 20160118171
## 1891   2016-01-18 18:00:00        1       35 20160118181
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## 1894   2016-01-18 21:00:00        1        38 20160118211
## 1895   2016-01-18 22:00:00        1        37 20160118221
## 1896   2016-01-18 23:00:00        1        35 20160118231
## 1897   2016-01-19 00:00:00        1        32 20160119001
## 1898   2016-01-19 01:00:00        1        32 20160119011
## 1899   2016-01-19 02:00:00        1        24 20160119021
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## 1922   2016-01-20 01:00:00        1        26 20160120011
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## 2004   2016-01-23 11:00:00          1        23 20160123111
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## 2026   2016-01-24 09:00:00          1        16 20160124091
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## 2040   2016-01-24 23:00:00          1        27 20160124231
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## 2051   2016-01-25 10:00:00          1        32 20160125101
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## 2053   2016-01-25 12:00:00          1        32 20160125121
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## 2057   2016-01-25 16:00:00       1       34 20160125161
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## 2063   2016-01-25 22:00:00       1       31 20160125221
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## 2103   2016-01-27 14:00:00       1       42 20160127141
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## 2105   2016-01-27 16:00:00       1       36 20160127161
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## 2107   2016-01-27 18:00:00       1       32 20160127181
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## 2117   2016-01-28 04:00:00          1          17 20160128041
## 2118   2016-01-28 05:00:00          1          15 20160128051
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## 2125   2016-01-28 12:00:00          1          41 20160128121
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## 2131   2016-01-28 18:00:00          1          36 20160128181
## 2132   2016-01-28 19:00:00          1          36 20160128191
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## 2147   2016-01-29 10:00:00          1          35 20160129101
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## 2151   2016-01-29 14:00:00          1          33 20160129141
## 2152   2016-01-29 15:00:00          1          35 20160129151
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## 2155   2016-01-29 18:00:00          1          34 20160129181
## 2156   2016-01-29 19:00:00          1          35 20160129191
## 2157   2016-01-29 20:00:00          1          36 20160129201
## 2158   2016-01-29 21:00:00          1          33 20160129211
## 2159   2016-01-29 22:00:00          1          30 20160129221
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## 2161   2016-01-30 00:00:00          1          27 20160130001
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## 2167   2016-01-30 06:00:00          1          10 20160130061
## 2168   2016-01-30 07:00:00          1          15 20160130071
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## 2174   2016-01-30 13:00:00          1          18 20160130131
## 2175   2016-01-30 14:00:00          1          24 20160130141
## 2176   2016-01-30 15:00:00          1          17 20160130151
## 2177   2016-01-30 16:00:00          1          22 20160130161
## 2178   2016-01-30 17:00:00          1          22 20160130171
## 2179   2016-01-30 18:00:00          1          22 20160130181
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## 2181   2016-01-30 20:00:00          1          30 20160130201
## 2182   2016-01-30 21:00:00          1          28 20160130211
## 2183   2016-01-30 22:00:00          1          30 20160130221
## 2184   2016-01-30 23:00:00          1          30 20160130231
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## 2186   2016-01-31 01:00:00          1          21 20160131011
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## 2190   2016-01-31 05:00:00          1          13 20160131051
## 2191   2016-01-31 06:00:00          1          11 20160131061
## 2192   2016-01-31 07:00:00          1          10 20160131071
## 2193   2016-01-31 08:00:00          1          13 20160131081
## 2194   2016-01-31 09:00:00          1          17 20160131091
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## 2197   2016-01-31 12:00:00          1          22 20160131121
## 2198   2016-01-31 13:00:00          1          19 20160131131
## 2199   2016-01-31 14:00:00          1          19 20160131141
## 2200   2016-01-31 15:00:00          1          19 20160131151
## 2201   2016-01-31 16:00:00          1          21 20160131161
## 2202   2016-01-31 17:00:00          1          19 20160131171
## 2203   2016-01-31 18:00:00          1          20 20160131181
## 2204   2016-01-31 19:00:00          1          29 20160131191
## 2205   2016-01-31 20:00:00          1          27 20160131201
## 2206   2016-01-31 21:00:00          1          29 20160131211
## 2207   2016-01-31 22:00:00          1          26 20160131221
## 2208   2016-01-31 23:00:00          1          27 20160131231
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## 2211   2016-02-01 02:00:00          1          21 20160201021
## 2212   2016-02-01 03:00:00          1          17 20160201031
## 2213   2016-02-01 04:00:00          1          12 20160201041
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## 2221   2016-02-01 12:00:00          1      40 20160201121
## 2222   2016-02-01 13:00:00          1      35 20160201131
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## 2773   2016-02-24 12:00:00         1         45 20160224121
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## 2807   2016-02-25 22:00:00         1         36 20160225221
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## 2863   2016-02-28 06:00:00         1       13 20160228061
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## 3229   2016-03-14 12:00:00          1      45 20160314121
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## 3511   2016-03-26 06:00:00          1        14 20160326061
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## 7237   2016-08-28 12:00:00          1          34 20160828121
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## 9922   2016-12-18 09:00:00          1        33 20161218091
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## 9928   2016-12-18 15:00:00          1        38 20161218151
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## 9935   2016-12-18 22:00:00          1        50 20161218221
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## 9997  2016-12-21 12:00:00            1       82 20161221121
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## 10231 2016-12-31 06:00:00          1          25 20161231061
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## 10234 2016-12-31 09:00:00          1          31 20161231091
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## 10236 2016-12-31 11:00:00          1          38 20161231111
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## 10241 2016-12-31 16:00:00          1          29 20161231161
## 10242 2016-12-31 17:00:00          1          29 20161231171
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## 10244 2016-12-31 19:00:00          1          33 20161231191
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## 10246 2016-12-31 21:00:00          1          32 20161231211
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## 12375 2017-03-30 14:00:00          1          91 20170330141
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## 12460 2017-04-03 03:00:00          1        33 20170403031
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## 12462 2017-04-03 05:00:00          1        34 20170403051
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## 12475 2017-04-03 18:00:00          1        88 20170403181
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## 12483 2017-04-04 02:00:00        1        53 20170404021
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## 12534 2017-04-06 05:00:00          1       40 20170406051
## 12535 2017-04-06 06:00:00          1       48 20170406061
## 12536 2017-04-06 07:00:00          1       53 20170406071
## 12537 2017-04-06 08:00:00          1       56 20170406081
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## 12542 2017-04-06 13:00:00          1       95 20170406131
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## 12549 2017-04-06 20:00:00          1       98 20170406201
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## 12581 2017-04-08 04:00:00          1       38 20170408041
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## 12589 2017-04-08 12:00:00          1          59 20170408121
## 12590 2017-04-08 13:00:00          1          54 20170408131
## 12591 2017-04-08 14:00:00          1          52 20170408141
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## 12654 2017-04-11 05:00:00          1        37 20170411051
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## 12674 2017-04-12 01:00:00          1        66 20170412011
## 12675 2017-04-12 02:00:00          1        50 20170412021
## 12676 2017-04-12 03:00:00          1        42 20170412031
## 12677 2017-04-12 04:00:00          1        42 20170412041
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## 12679 2017-04-12 06:00:00          1        40 20170412061
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## 12685 2017-04-12 12:00:00          1        92 20170412121
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## 12687 2017-04-12 14:00:00          1        91 20170412141
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## 12689 2017-04-12 16:00:00          1        83 20170412161
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## 12804 2017-04-17 11:00:00          1        87 20170417111
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## 12907 2017-04-21 18:00:00        1       85 20170421181
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## 12932 2017-04-22 19:00:00        1        57 20170422191
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## 12935 2017-04-22 22:00:00        1        63 20170422221
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## 12948 2017-04-23 11:00:00        1        52 20170423111
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## 12953 2017-04-23 16:00:00        1        49 20170423161
## 12954 2017-04-23 17:00:00        1        54 20170423171
## 12955 2017-04-23 18:00:00        1        63 20170423181
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## 12961 2017-04-24 00:00:00        1        59 20170424001
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## 12966 2017-04-24 05:00:00          1          35 20170424051
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## 12976 2017-04-24 15:00:00          1          87 20170424151
## 12977 2017-04-24 16:00:00          1          87 20170424161
## 12978 2017-04-24 17:00:00          1          86 20170424171
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## 12980 2017-04-24 19:00:00          1          98 20170424191
## 12981 2017-04-24 20:00:00          1          96 20170424201
## 12982 2017-04-24 21:00:00          1          92 20170424211
## 12983 2017-04-24 22:00:00          1          88 20170424221
## 12984 2017-04-24 23:00:00          1          81 20170424231
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## 12988 2017-04-25 03:00:00          1          48 20170425031
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## 12991 2017-04-25 06:00:00          1          47 20170425061
## 12992 2017-04-25 07:00:00          1          55 20170425071
## 12993 2017-04-25 08:00:00          1          57 20170425081
## 12994 2017-04-25 09:00:00          1          69 20170425091
## 12995 2017-04-25 10:00:00          1          78 20170425101
## 12996 2017-04-25 11:00:00          1          87 20170425111
## 12997 2017-04-25 12:00:00          1          92 20170425121
## 12998 2017-04-25 13:00:00          1          85 20170425131
## 12999 2017-04-25 14:00:00          1          93 20170425141
## 13000 2017-04-25 15:00:00          1          87 20170425151
## 13001 2017-04-25 16:00:00          1          88 20170425161
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## 13003 2017-04-25 18:00:00          1          89 20170425181
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## 13005 2017-04-25 20:00:00          1          93 20170425201
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## 13008 2017-04-25 23:00:00          1          79 20170425231
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## 13010 2017-04-26 01:00:00          1          61 20170426011
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## 13013 2017-04-26 04:00:00          1          41 20170426041
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## 13042 2017-04-27 09:00:00         1         61 20170427091
## 13043 2017-04-27 10:00:00         1         83 20170427101
## 13044 2017-04-27 11:00:00         1         91 20170427111
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## 13051 2017-04-27 18:00:00         1         85 20170427181
## 13052 2017-04-27 19:00:00         1         83 20170427191
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## 13055 2017-04-27 22:00:00         1         79 20170427221
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## 13615 2017-05-21 06:00:00          1          26 20170521061
## 13616 2017-05-21 07:00:00          1          32 20170521071
## 13617 2017-05-21 08:00:00          1          37 20170521081
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## 13714 2017-05-25 09:00:00          1      71 20170525091
## 13715 2017-05-25 10:00:00          1      91 20170525101
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## 13771 2017-05-27 18:00:00          1       62 20170527181
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## 13799 2017-05-28 22:00:00       1       64 20170528221
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## 13856 2017-05-31 07:00:00           1          52 20170531071
## 13857 2017-05-31 08:00:00           1          62 20170531081
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## 13865 2017-05-31 16:00:00           1          97 20170531161
## 13866 2017-05-31 17:00:00           1          97 20170531171
## 13867 2017-05-31 18:00:00           1          99 20170531181
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## 13872 2017-05-31 23:00:00           1          83 20170531231
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## 14081 2017-06-09 16:00:00        1       90 20170609161
## 14082 2017-06-09 17:00:00        1       86 20170609171
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## 14458 2017-06-25 09:00:00          1          44 20170625091
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## 14465 2017-06-25 16:00:00          1          57 20170625161
## 14466 2017-06-25 17:00:00          1          56 20170625171
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## 14470 2017-06-25 21:00:00          1          61 20170625211
## 14471 2017-06-25 22:00:00          1          64 20170625221
## 14472 2017-06-25 23:00:00          1          60 20170625231
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291

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## 18185 2016-03-29 16:00:00          2          14 20160329162
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## 18307 2016-04-03 18:00:00       2        8 20160403182
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## 19346 2016-05-17 01:00:00         2         12 20160517012
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## 19354 2016-05-17 09:00:00         2         11 20160517092
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## 19360 2016-05-17 15:00:00         2         20 20160517152
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## 19362 2016-05-17 17:00:00         2         12 20160517172
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## 19367 2016-05-17 22:00:00         2         19 20160517222
## 19368 2016-05-17 23:00:00         2         17 20160517232
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## 19378 2016-05-18 09:00:00         2         10 20160518092
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## 19384 2016-05-18 15:00:00         2         14 20160518152
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## 19387 2016-05-18 18:00:00         2         17 20160518182
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## 19392 2016-05-18 23:00:00       2       12 20160518232
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## 19439 2016-05-20 22:00:00       2       13 20160520222
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## 19441 2016-05-21 00:00:00       2       13 20160521002
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## 19446 2016-05-21 05:00:00          2           6 20160521052
## 19447 2016-05-21 06:00:00          2           3 20160521062
## 19448 2016-05-21 07:00:00          2           7 20160521072
## 19449 2016-05-21 08:00:00          2           7 20160521082
## 19450 2016-05-21 09:00:00          2           6 20160521092
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## 19452 2016-05-21 11:00:00          2           7 20160521112
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## 19480 2016-05-22 15:00:00          2           9 20160522152
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## 19486 2016-05-22 21:00:00          2          12 20160522212
## 19487 2016-05-22 22:00:00          2           9 20160522222
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## 19490 2016-05-23 01:00:00          2           8 20160523012
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## 19495 2016-05-23 06:00:00          2           7 20160523062
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## 19497 2016-05-23 08:00:00          2           8 20160523082
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## 19501 2016-05-23 12:00:00          2          12 20160523122
## 19502 2016-05-23 13:00:00          2          13 20160523132
## 19503 2016-05-23 14:00:00          2          15 20160523142
## 19504 2016-05-23 15:00:00          2          16 20160523152
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## 19518 2016-05-24 05:00:00          2           5 20160524052
## 19519 2016-05-24 06:00:00          2           8 20160524062
## 19520 2016-05-24 07:00:00          2           8 20160524072
## 19521 2016-05-24 08:00:00          2           9 20160524082
## 19522 2016-05-24 09:00:00          2          10 20160524092
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## 19524 2016-05-24 11:00:00          2          15 20160524112
## 19525 2016-05-24 12:00:00          2          15 20160524122
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## 19527 2016-05-24 14:00:00          2          16 20160524142
## 19528 2016-05-24 15:00:00          2          17 20160524152
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## 19533 2016-05-24 20:00:00          2          19 20160524202
## 19534 2016-05-24 21:00:00          2          13 20160524212
## 19535 2016-05-24 22:00:00          2          15 20160524222
## 19536 2016-05-24 23:00:00          2          12 20160524232
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## 19540 2016-05-25 03:00:00          2          11 20160525032
## 19541 2016-05-25 04:00:00          2           8 20160525042
## 19542 2016-05-25 05:00:00          2          10 20160525052
## 19543 2016-05-25 06:00:00          2          10 20160525062
## 19544 2016-05-25 07:00:00          2           5 20160525072
## 19545 2016-05-25 08:00:00          2          11 20160525082
## 19546 2016-05-25 09:00:00          2          13 20160525092
## 19547 2016-05-25 10:00:00          2          13 20160525102
## 19548 2016-05-25 11:00:00          2          15 20160525112
## 19549 2016-05-25 12:00:00          2          16 20160525122
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## 19551 2016-05-25 14:00:00      2        19 20160525142
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## 19553 2016-05-25 16:00:00      2        17 20160525162
## 19554 2016-05-25 17:00:00      2        16 20160525172
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## 19557 2016-05-25 20:00:00      2        17 20160525202
## 19558 2016-05-25 21:00:00      2        17 20160525212
## 19559 2016-05-25 22:00:00      2        17 20160525222
## 19560 2016-05-25 23:00:00      2        14 20160525232
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## 19573 2016-05-26 12:00:00      2        16 20160526122
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## 19583 2016-05-26 22:00:00      2        12 20160526222
## 19584 2016-05-26 23:00:00      2        15 20160526232
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## 19586 2016-05-27 01:00:00      2        11 20160527012
## 19587 2016-05-27 02:00:00      2         9 20160527022
## 19588 2016-05-27 03:00:00      2         9 20160527032
## 19589 2016-05-27 04:00:00      2         8 20160527042
## 19590 2016-05-27 05:00:00      2         8 20160527052
## 19591 2016-05-27 06:00:00      2         8 20160527062
## 19592 2016-05-27 07:00:00      2         7 20160527072
## 19593 2016-05-27 08:00:00      2        12 20160527082
## 19594 2016-05-27 09:00:00      2        10 20160527092
## 19595 2016-05-27 10:00:00      2        13 20160527102
## 19596 2016-05-27 11:00:00      2        13 20160527112
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## 19599 2016-05-27 14:00:00      2        16 20160527142
## 19600 2016-05-27 15:00:00      2        17 20160527152
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## 19602 2016-05-27 17:00:00      2        15 20160527172
## 19603 2016-05-27 18:00:00      2        14 20160527182
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## 19605 2016-05-27 20:00:00          2          17 20160527202
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## 19607 2016-05-27 22:00:00          2          14 20160527222
## 19608 2016-05-27 23:00:00          2          14 20160527232
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## 19630 2016-05-28 21:00:00          2           8 20160528212
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## 19634 2016-05-29 01:00:00          2           6 20160529012
## 19635 2016-05-29 02:00:00          2           8 20160529022
## 19636 2016-05-29 03:00:00          2           6 20160529032
## 19637 2016-05-29 04:00:00          2           7 20160529042
## 19638 2016-05-29 05:00:00          2           6 20160529052
## 19639 2016-05-29 06:00:00          2           5 20160529062
## 19640 2016-05-29 07:00:00          2           5 20160529072
## 19641 2016-05-29 08:00:00          2           6 20160529082
## 19642 2016-05-29 09:00:00          2           4 20160529092
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## 19644 2016-05-29 11:00:00          2          10 20160529112
## 19645 2016-05-29 12:00:00          2           8 20160529122
## 19646 2016-05-29 13:00:00          2           7 20160529132
## 19647 2016-05-29 14:00:00          2          10 20160529142
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## 19649 2016-05-29 16:00:00          2          11 20160529162
## 19650 2016-05-29 17:00:00          2           8 20160529172
## 19651 2016-05-29 18:00:00          2          10 20160529182
## 19652 2016-05-29 19:00:00          2          10 20160529192
## 19653 2016-05-29 20:00:00          2          11 20160529202
## 19654 2016-05-29 21:00:00          2          12 20160529212
## 19655 2016-05-29 22:00:00          2          11 20160529222
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## 19657 2016-05-30 00:00:00          2          10 20160530002
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## 19665 2016-05-30 08:00:00        2        10 20160530082
## 19666 2016-05-30 09:00:00        2         7 20160530092
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## 19684 2016-05-31 03:00:00        2         7 20160531032
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## 19687 2016-05-31 06:00:00        2         6 20160531062
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## 19689 2016-05-31 08:00:00        2         7 20160531082
## 19690 2016-05-31 09:00:00        2         8 20160531092
## 19691 2016-05-31 10:00:00        2        13 20160531102
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## 19967 2016-06-11 22:00:00          2           7 20160611222
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## 20251 2016-06-23 18:00:00        2      16 20160623182
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## 20845 2016-07-18 12:00:00        2        15 20160718122
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## 20992 2016-07-24 15:00:00        2         9 20160724152
## 20993 2016-07-24 16:00:00        2        10 20160724162
## 20994 2016-07-24 17:00:00        2         9 20160724172
## 20995 2016-07-24 18:00:00        2        12 20160724182
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## 21000 2016-07-24 23:00:00        2        10 20160724232
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## 21439 2016-08-12 06:00:00          2          11 20160812062
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## 21655 2016-08-21 06:00:00          2           3 20160821062
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## 22134 2016-09-10 05:00:00        2         9 20160910052
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## 22136 2016-09-10 07:00:00        2         6 20160910072
## 22137 2016-09-10 08:00:00        2         6 20160910082
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## 22141 2016-09-10 12:00:00        2         8 20160910122
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## 22195 2016-09-12 18:00:00       2      15 20160912182
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## 22249 2016-09-15 00:00:00        2        14 20160915002
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## 22255 2016-09-15 06:00:00          2           6 20160915062
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## 22302 2016-09-17 05:00:00          2           4 20160917052
## 22303 2016-09-17 06:00:00          2           9 20160917062
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## 22342 2016-09-18 21:00:00          2         10 20160918212
## 22343 2016-09-18 22:00:00          2         14 20160918222
## 22344 2016-09-18 23:00:00          2         15 20160918232
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## 22352 2016-09-19 07:00:00          2          9 20160919072
## 22353 2016-09-19 08:00:00          2         10 20160919082
## 22354 2016-09-19 09:00:00          2         10 20160919092
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## 22357 2016-09-19 12:00:00          2         18 20160919122
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## 22361 2016-09-19 16:00:00        2        18 20160919162
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## 22375 2016-09-20 06:00:00        2         9 20160920062
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## 22377 2016-09-20 08:00:00        2        11 20160920082
## 22378 2016-09-20 09:00:00        2        11 20160920092
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## 22397 2016-09-21 04:00:00        2        11 20160921042
## 22398 2016-09-21 05:00:00        2         8 20160921052
## 22399 2016-09-21 06:00:00        2        10 20160921062
## 22400 2016-09-21 07:00:00        2         9 20160921072
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## 22402 2016-09-21 09:00:00        2         9 20160921092
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## 22405 2016-09-21 12:00:00        2        18 20160921122
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## 22409 2016-09-21 16:00:00        2        18 20160921162
## 22410 2016-09-21 17:00:00        2        17 20160921172
## 22411 2016-09-21 18:00:00        2        17 20160921182
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## 22421 2016-09-22 04:00:00          2       9 20160922042
## 22422 2016-09-22 05:00:00          2      10 20160922052
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## 22450 2016-09-23 09:00:00          2      13 20160923092
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## 22456 2016-09-23 15:00:00          2      15 20160923152
## 22457 2016-09-23 16:00:00          2      16 20160923162
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## 22463 2016-09-23 22:00:00          2      11 20160923222
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## 22465 2016-09-24 00:00:00          2      16 20160924002
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## 22473 2016-09-24 08:00:00          2         6 20160924082
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## 22834 2016-10-09 09:00:00          2           7 20161009092
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## 22843 2016-10-09 18:00:00          2          13 20161009182
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## 23098 2016-10-20 09:00:00          2          13 20161020092
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## 23106 2016-10-20 17:00:00          2          20 20161020172
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## 24931 2017-01-04 18:00:00          2          21 20170104182
## 24932 2017-01-04 19:00:00          2          19 20170104192
## 24933 2017-01-04 20:00:00          2          16 20170104202
## 24934 2017-01-04 21:00:00          2          18 20170104212
## 24935 2017-01-04 22:00:00          2          19 20170104222
## 24936 2017-01-04 23:00:00          2          17 20170104232
## 24937 2017-01-05 00:00:00          2          16 20170105002
## 24938 2017-01-05 01:00:00          2          14 20170105012
## 24939 2017-01-05 02:00:00          2          14 20170105022
## 24940 2017-01-05 03:00:00          2           9 20170105032
## 24941 2017-01-05 04:00:00          2          12 20170105042
## 24942 2017-01-05 05:00:00          2          12 20170105052
## 24943 2017-01-05 06:00:00          2           8 20170105062
## 24944 2017-01-05 07:00:00          2           7 20170105072
## 24945 2017-01-05 08:00:00          2          10 20170105082
## 24946 2017-01-05 09:00:00          2          12 20170105092
## 24947 2017-01-05 10:00:00          2          14 20170105102
## 24948 2017-01-05 11:00:00          2          13 20170105112
## 24949 2017-01-05 12:00:00          2          15 20170105122
```

```
## 24950 2017-01-05 13:00:00          2          18 20170105132
## 24951 2017-01-05 14:00:00          2          16 20170105142
## 24952 2017-01-05 15:00:00          2          18 20170105152
## 24953 2017-01-05 16:00:00          2          18 20170105162
## 24954 2017-01-05 17:00:00          2          16 20170105172
## 24955 2017-01-05 18:00:00          2          20 20170105182
## 24956 2017-01-05 19:00:00          2          18 20170105192
## 24957 2017-01-05 20:00:00          2          24 20170105202
## 24958 2017-01-05 21:00:00          2          21 20170105212
## 24959 2017-01-05 22:00:00          2          17 20170105222
## 24960 2017-01-05 23:00:00          2          18 20170105232
## 24961 2017-01-06 00:00:00          2          13 20170106002
## 24962 2017-01-06 01:00:00          2          17 20170106012
## 24963 2017-01-06 02:00:00          2          11 20170106022
## 24964 2017-01-06 03:00:00          2          10 20170106032
## 24965 2017-01-06 04:00:00          2          11 20170106042
## 24966 2017-01-06 05:00:00          2           8 20170106052
## 24967 2017-01-06 06:00:00          2           8 20170106062
## 24968 2017-01-06 07:00:00          2           6 20170106072
## 24969 2017-01-06 08:00:00          2          12 20170106082
## 24970 2017-01-06 09:00:00          2          11 20170106092
## 24971 2017-01-06 10:00:00          2          10 20170106102
## 24972 2017-01-06 11:00:00          2          17 20170106112
## 24973 2017-01-06 12:00:00          2          17 20170106122
## 24974 2017-01-06 13:00:00          2          17 20170106132
## 24975 2017-01-06 14:00:00          2          19 20170106142
## 24976 2017-01-06 15:00:00          2          17 20170106152
## 24977 2017-01-06 16:00:00          2          18 20170106162
## 24978 2017-01-06 17:00:00          2          22 20170106172
## 24979 2017-01-06 18:00:00          2          20 20170106182
## 24980 2017-01-06 19:00:00          2          20 20170106192
## 24981 2017-01-06 20:00:00          2          19 20170106202
## 24982 2017-01-06 21:00:00          2          18 20170106212
## 24983 2017-01-06 22:00:00          2          19 20170106222
## 24984 2017-01-06 23:00:00          2          21 20170106232
## 24985 2017-01-07 00:00:00          2          14 20170107002
## 24986 2017-01-07 01:00:00          2          14 20170107012
## 24987 2017-01-07 02:00:00          2          14 20170107022
## 24988 2017-01-07 03:00:00          2          10 20170107032
## 24989 2017-01-07 04:00:00          2           9 20170107042
## 24990 2017-01-07 05:00:00          2           8 20170107052
## 24991 2017-01-07 06:00:00          2           8 20170107062
## 24992 2017-01-07 07:00:00          2           8 20170107072
## 24993 2017-01-07 08:00:00          2          10 20170107082
## 24994 2017-01-07 09:00:00          2           7 20170107092
## 24995 2017-01-07 10:00:00          2          11 20170107102
## 24996 2017-01-07 11:00:00          2           9 20170107112
## 24997 2017-01-07 12:00:00          2           9 20170107122
## 24998 2017-01-07 13:00:00          2          11 20170107132
## 24999 2017-01-07 14:00:00          2          13 20170107142
##  [ reached 'max' / getOption("max.print") -- omitted 23121 rows ]
```

#c. Plot each junction in a using geom_line(). Show your solution and output.

```r
library(ggplot2)

ggplot(traffic_data, aes(x = DateTime, y = Vehicles, color = as.factor(Junction))) +
  geom_line() +
  scale_color_manual(values = c("violet", "blue", "brown", "red")) +
  labs(title = "Traffic by Junction",
       x = "Date Time",
       y = "Number of Vehicles") +
  theme_minimal() +
  facet_wrap(~Junction, scales = "free_y", ncol = 1) +
  guides(color = guide_legend(title = "Junction"))
```

```
## `geom_line()`: Each group consists of only one observation.
## i Do you need to adjust the group aesthetic?
## `geom_line()`: Each group consists of only one observation.
## i Do you need to adjust the group aesthetic?
## `geom_line()`: Each group consists of only one observation.
## i Do you need to adjust the group aesthetic?
## `geom_line()`: Each group consists of only one observation.
## i Do you need to adjust the group aesthetic?
```
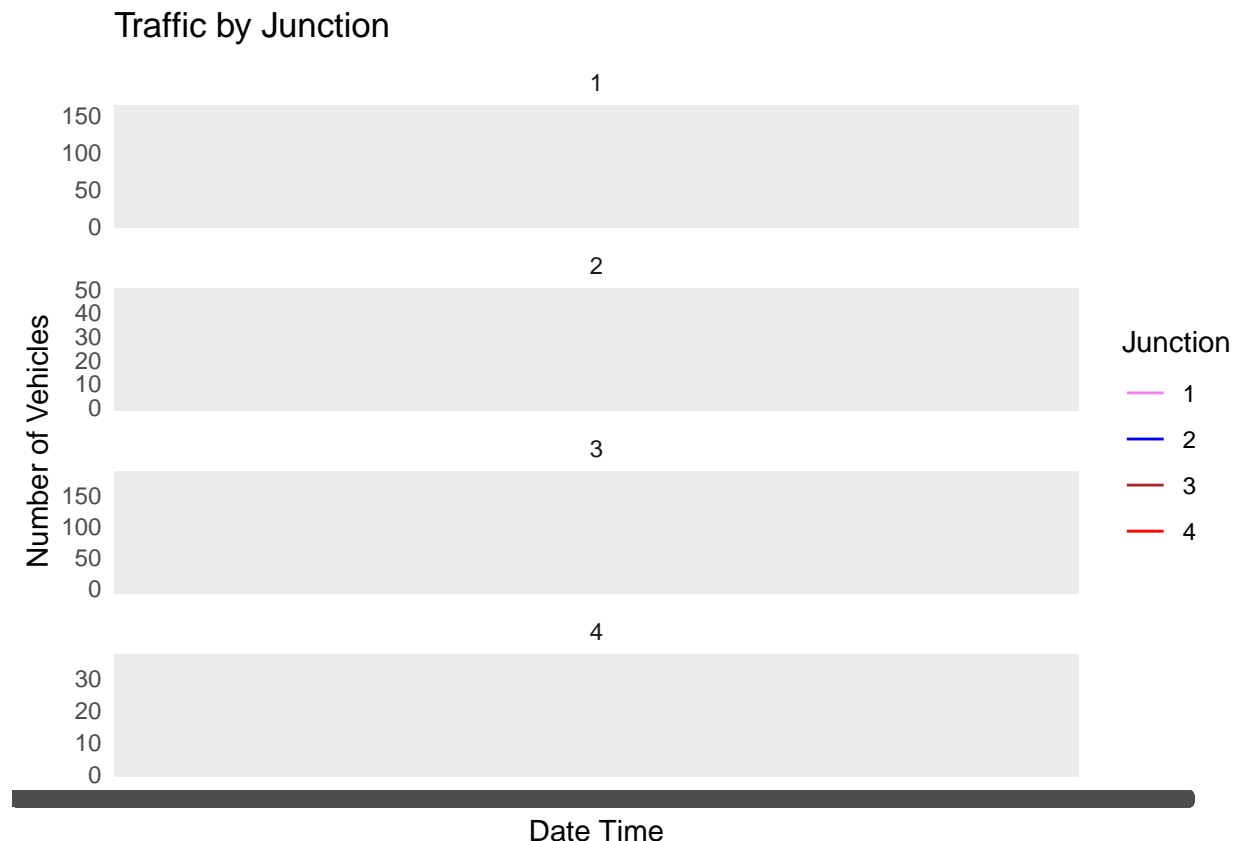

#7. From alexa_file.xlsx, import it to your environment #a. How many observations does alexa_file has? What about the number of columns? Show your solution and answer.

```r
library(readxl)

alexafile <- read_excel("alexa_file.xlsx")
```

```r
#Observations and columns
alexaobs <- nrow(alexafile)

alexa_cols_obs <- ncol(alexafile)

cat("The number of observations on alexa_file is:",alexaobs,"\n")
```

The number of observations on alexa_file is: 3150

```r
cat("The number of coloumns on alexa_file is:",alexa_cols_obs,"\n")
```

The number of coloumns on alexa_file is: 5

#b. group the variations and get the total of each variations. Use dplyr package. Show solution and answer.

```r
library(dplyr)

variations_group <- alexafile%>%
  group_by(variation)%>%
  summarise(totalcount_ = n())
variations_group
```

```
## # A tibble: 16 x 2
##    variation                    totalcount_
##    <chr>                              <int>
##  1 Black                                261
##  2 Black  Dot                          516
##  3 Black  Plus                         270
##  4 Black  Show                         265
##  5 Black  Spot                         241
##  6 Charcoal Fabric                     430
##  7 Configuration: Fire TV Stick        350
##  8 Heather Gray Fabric                 157
##  9 Oak Finish                           14
## 10 Sandstone Fabric                     90
## 11 Walnut Finish                         9
## 12 White                                91
## 13 White  Dot                          184
## 14 White  Plus                          78
## 15 White  Show                          85
## 16 White  Spot                         109
```

#c. Plot the variations using the ggplot() function. What did you observe? Complete the details of the graph. Show solution and answer.

```r
library(ggplot2)

ggplot(alexafile, aes(x = variation)) +
  geom_bar() +
  labs(title = "Distribution of Variations",
       x = "Variation",
       y = "Count") +
  theme_minimal()
```

Distribution of Variations
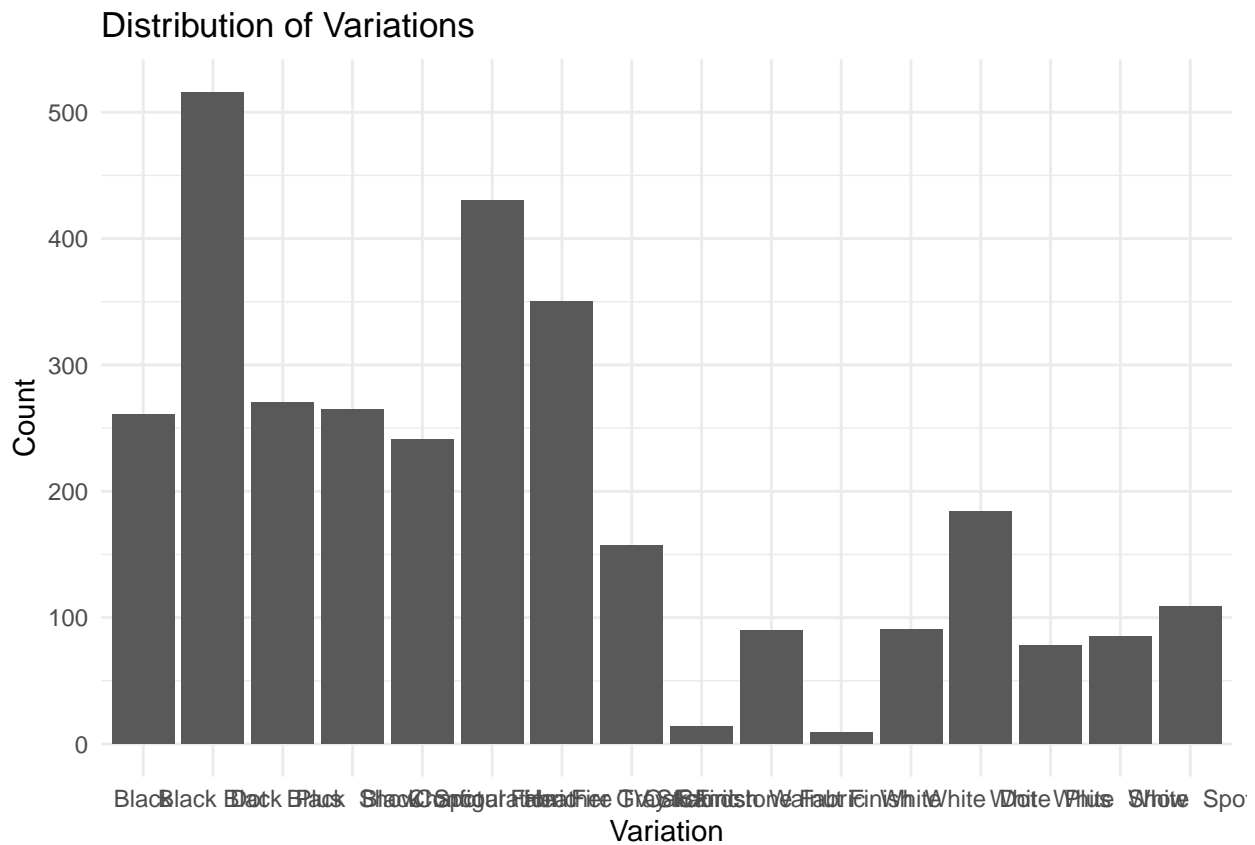
#d. Plot a geom_line() with the date and the number of verified reviews. Complete the details of the graphs. Show your answer and solution.
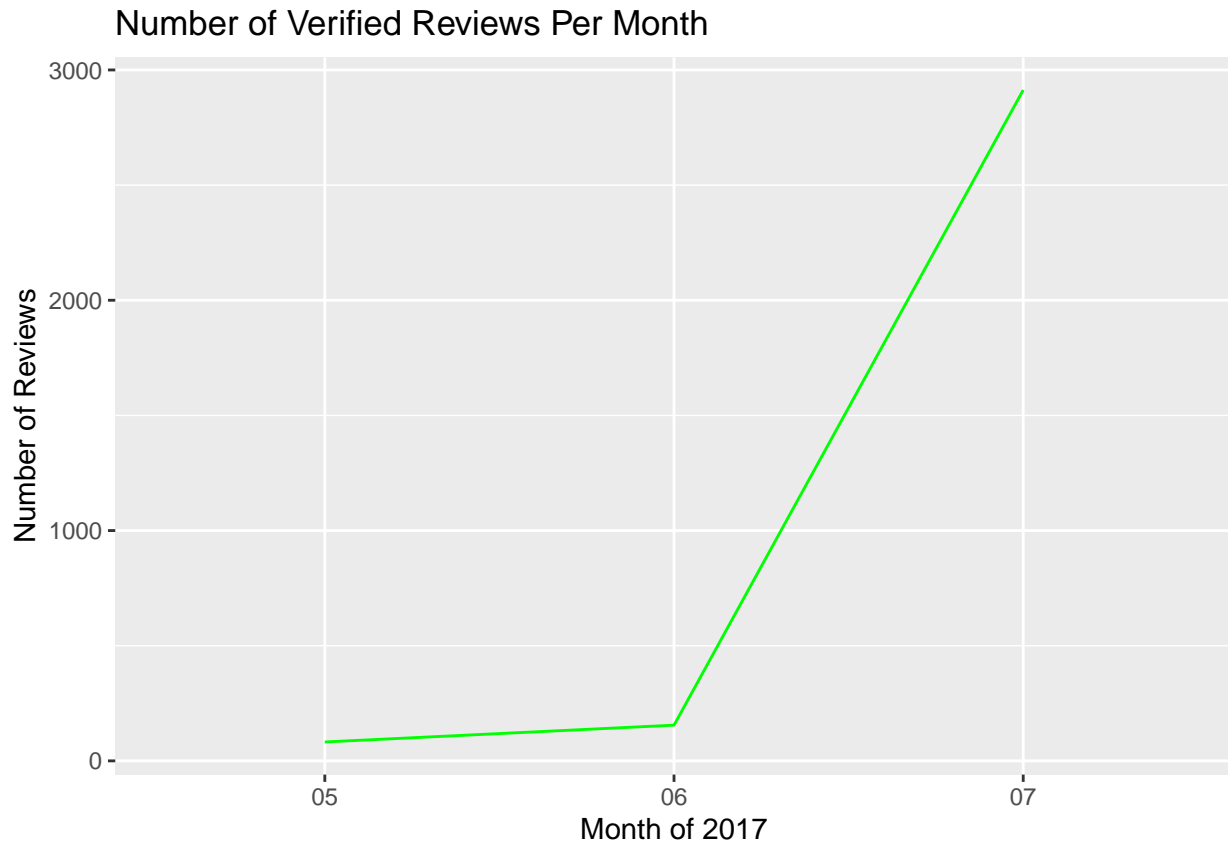
```r
alexafile$date <- as.Date(alexafile$date)

alexafile$month <- format(alexafile$date, "%m")

months <- alexafile %>%
  group_by(month) %>%
  summarise(num_reviews = n())


months_review <- table(months)

ggplot(months, aes(x = month, y = num_reviews, group = 1)) +
  geom_line(color = "green") +
  labs(title = "Number of Verified Reviews Per Month",
       x = "Month of 2017", y = "Number of Reviews")
```

Number of Verified Reviews Per Month

#e. Get the relationship of variations and ratings. Which variations got the most highest in rating? Plot a graph to show its relationship. Show your solution and answer.

```r
Variation_Rating <- alexafile %>%
  group_by(variation) %>%
  summarise(avg_rating = mean(rating))

Variation_Rating
```

```
## # A tibble: 16 x 2
##    variation                avg_rating
##    <chr>                         <dbl>
##  1 Black                          4.23
##  2 Black  Dot                     4.45
##  3 Black  Plus                    4.37
##  4 Black  Show                    4.49
##  5 Black  Spot                    4.31
##  6 Charcoal Fabric                4.73
##  7 Configuration: Fire TV Stick   4.59
##  8 Heather Gray Fabric            4.69
##  9 Oak Finish                     4.86
## 10 Sandstone Fabric               4.36
## 11 Walnut Finish                  4.89
## 12 White                          4.14
## 13 White  Dot                     4.42
## 14 White  Plus                    4.36
## 15 White  Show                    4.28
## 16 White  Spot                    4.31
```

```
highest_ratings <- Variation_Rating %>%
  filter(avg_rating == max(avg_rating))

highest_ratings
```

```
## # A tibble: 1 x 2
##   variation      avg_rating
##   <chr>               <dbl>
## 1 Walnut Finish        4.89
```

```
#The highest rating is the walnut

ggplot(Variation_Rating, aes(x = variation, y = avg_rating)) +
  geom_bar(stat = "identity", fill = "brown") +
  labs(title = "Average Ratings by Variation",
       x = "Variation",
       y = "Average Rating") + theme(plot.title = element_text(hjust = 0.5),
       axis.text.x = element_text(angle = 44, hjust = 1))
```


Average Ratings by Variation