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FB friends Birthday

Hindam

[1] "integer"

typeof(df\$new date)

```
January 13, 2019
 # read csv file:
 df <- read.csv("Friends' Birthdays.csv",header =T, check.names = F, row.name</pre>
 s = NULL)
 #View the data and take some insights
 View(df)
 dim(df)
 ## [1] 322 17
 # remove the duplicated row
 df <- df[-c(1),]
 View(df)
 # remove the un necessary columns
 df<- df[-c(3:17)]</pre>
 View(df)
 # final dimension needed
 dim(df)
 ## [1] 321
 # adjust the title column by removing the ('s birthday)
 df$title <- gsub("'s birthday","",df$title)</pre>
 View(df)
Now time to extract the needed data of birthdate, first things first
 \# extract the day and month from the date
 df$new date <- strptime(df$date,"%m/%d/%Y")</pre>
 typeof(df$date)
```

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```
## [1] "list"

# import packages
library(lubridate)

##
## Attaching package: 'lubridate'

## The following object is masked from 'package:base':
##
## date

# set a new column for the month
df$month <- month(as.POSIXlt(df$new_date, format="%m/%d/%Y"))
View(df)</pre>
```

Same we will do for the day

```
# set a new column for the day
df$day <- day(as.POSIXlt(df$new_date, format="%m/%d/%Y"))
View(df)</pre>
```

```
# Let's zoom for the needed data
df<- df[-c(2,3)]
View(df)</pre>
```

Now to the fun part

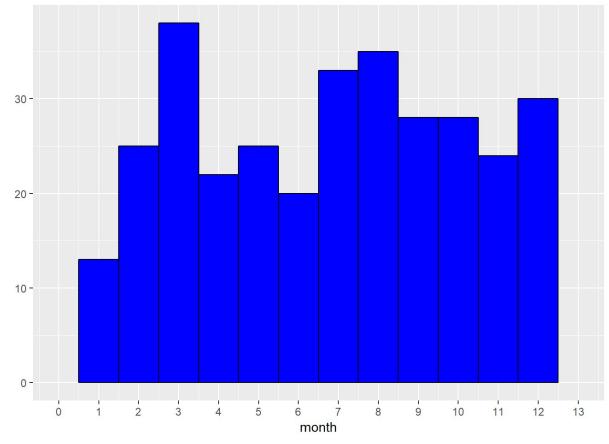
1. How many people have the same birthday as you?

Answer : is 3 , but the fun fact here that these other two are my own facebook accounts :)

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2. Which month contains the most number of birthdays?

```
## Warning: Removed 2 rows containing missing values (geom_bar).
```

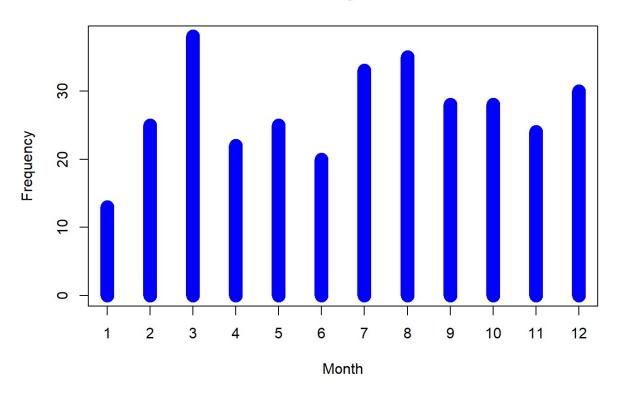


Answer : March

3. How many birthdays are in each month?

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Number of birthdays in each month

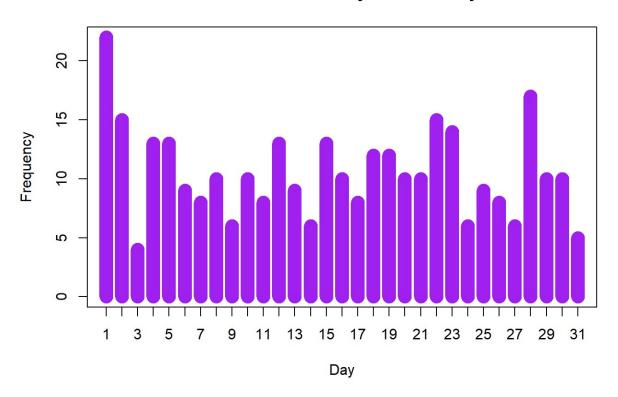


4. Which day of the year has the most number of birthdays?

```
bpd <- table(df$day)
plot(bpd, type = "h", xlab = "Day", ylab = "Frequency",
    main = "Number of birthdays in each Day", col="purple", lwd = 15)</pre>
```

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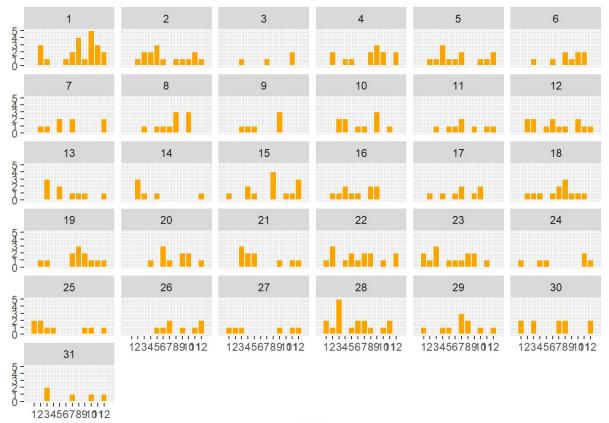
Number of birthdays in each Day



5. Do you have at least 365 friends that have birthdays on everyday of the year?

```
## Warning: Removed 62 rows containing missing values (geom_bar).
```

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month