Lab 4 - Exercise 2 - Plot the Monthly Closing Stock Prices and the Mean Values

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In this lab, we are going to visualize the monthly fluctuation in stock prices.

Libraries

Load the necessary libraries.

```
library(tidyverse)
```

```
## -- Attaching core tidyverse packages ------------------------ tidyverse 2.0.0 --
## v dplyr     1.1.4     v readr     2.1.5
## v forcats   1.0.0     v stringr   1.5.1
## v ggplot2   3.5.1     v tibble    3.2.1
## v lubridate 1.9.3     v tidyr     1.3.1
## v purrr     1.0.2
## -- Conflicts ------------------------------------------ tidyverse_conflicts() --
## x dplyr::filter() masks stats::filter()
## x dplyr::lag()    masks stats::lag()
## i Use the conflicted package (<http://conflicted.r-lib.org/>) to force all conflicts to become errors
```

Data

Use the data from the Facebook dataset.

```
df_fb <- read_csv("../../data/FB.csv")
```

```
## Rows: 357 Columns: 7
## -- Column specification --------------------------------------------------------
## Delimiter: ","
## dbl  (6): Open, High, Low, Close, Adj Close, Volume
## date (1): Date
##
## i Use `spec()` to retrieve the full column specification for this data.
## i Specify the column types or set `show_col_types = FALSE` to quiet this message.
```

```
df_fb$Date <- as.Date(df_fb$Date)
df_fb$Month <- strftime(df_fb$Date, "%m")
df_fb$Month <- as.numeric(df_fb$Month)
df_fb <- df_fb %>% filter ((Date >= "2017-05-01") & (Date < "2018-05-01"))
```

Plot

Complete the cell with the code to make the plot.