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# Subsetting Data in R - Lab
# 1/6/2018
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## In this lab you can use the interactive console to explore
##        but please record your commands here.
## Remember anything you type here can be "sent" to the console with
##     Cmd-Enter (OS-X) or Cntr-Enter (Windows/Linux).

# 1. Check to see if you have the `mtcars` dataset
#                 (which is included in the `datasets` package)

# 2. What class is `mtcars`?

# 3. How many observations (rows) and variables (columns) are in the `mtcars` dataset?

# 4. Select the subset of rows that get more than 20 miles
#                  per gallon (mpg) of fuel efficiency - how many are there?

# 5. Select the subset of rows that get less than 16 miles
#                 per gallon (mpg) of fuel efficiency and have more than
#                 100 horsepower (hp) - how many are there?

# 6. Create a subset of the data that only contains the columns:
#                 wt, qsec, and hp for only the cars that have 8 cylinders
#                 and assign this object to `carsSub` -
#                 what are the dimensions of this dataset?

# 7. Convert the column names of `carsSub` to all upper case

# 8. Re-order the rows of `carsSub` by weight in increasing order
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