Homework 8

Due: Thursday 4/16/20 by 8:30am

1. Problem 6.8 from the `.pdf` version of the textbook. Requires use of the `brand_preference` data that has been posted on the Homework page.
2. Problem 6.14 from the `.pdf` version of the textbook, parts (a)-(b). Requires use of the `grocery_retailer` data that has been posted on the Homework page.
3. Problem 6.28 from the `.pdf` version of the textbook. Requires use of the `CDI` data that has been posted on the Homework page. You will need to look to the textbook appendices for a description of the variables in this dataset. See page 1,367 of the `.pdf` version of the textbook.
4. Problem 6.29 from the `.pdf` version of the textbook. Requires use of the `CDI` data that has been posted on the Homework page. You will need to look to the textbook appendices for a description of the variables in this dataset. See page 1,367 of the `.pdf` version of the textbook. Hint: you can use the `subset` argument of the `lm` function to fit a regression model to a subset of the data. See below for an example.

```
link <- url("http://maryclare.github.io/stat525/content/homework/CDI.RData")
load(link)
close(link)
# Regress the number of hospital beds (X9) on the percent of
# the percent of the population 65 or older (X8) for geographic region 1
linmod.1 <- lm(X9~X7, # Regression model
               subset = X17 == 1, # Subset of data to fit the regression model to
               data = data) # Tell R where to look for X9, X7, and X17
```