Homework Assignment 1

Deadline: February 20, midnight

Source: Stock and Watson, 4th Edition, Exercise 3.1

Data description: You can find the data description here.

Questions

a. In 2015, the value of the Consumer Price Index (CPI) was 237.0. In 1996, the value of the CPI was 156.9. Create a new variable in your data frame that expressed all earnings in real 2015 dollars. Use this variable to answer the next questions.

- b. Construct a 95% confidence interval for the mean of ahe for high school graduates in 1996.
- c. Construct a 95% confidence interval for the mean of ahe for high school graduates in 2015.
- d. Construct a 95% confidence interval for the mean of ahe for college graduates in 1996.
- e. Construct a 95% confidence interval for the mean of ahe for college graduates in 2015.
- **f.** Did the inflation adjusted wages of high school graduates increase from 1996 to 2015? Use statistical inference to answer.
- **g.** Did the inflation adjusted wages of collage graduates increase from 1996 to 2015? Use statistical inference to answer.
- h. Did the gap between earnings of college and high school graduates increase? Use statistical inference to answer.

Header for the R script

options(scipen=999)

Start a new R script, copy/paste the header below and save it to Dropbox\EC282\Assignment1 or a similar path that you created for this homework assignment. Run the R script and make sure that you have the data df1 in your environment. Conduct the analysis below the header.