This homework assignment focuses on Principal Components Analysis (PCA). You will provide a written analysis based on the following information:

- First, download the compressed data from the U.S. Bureau of Labor Statistics (BLS) at http://www.bls.gov/cew/data/files/2014/csv/2014_annual_singlefile.zip, and extract the .csv file.
- Run Principal Components Analysis on the BLS data and answer the following questions (You can use any PCA function you wish, i.e. princomp(), prcomp(), principal() or by hand.):
 - o Questions:
 - 1. What proportion of the total variation in the data is explained by each of the principal components?
 - 2. What happens when you plot a screeplot?
 - 3. Based on the variation explained for each of these components, which, if any, components would you use? Why?
 - 4. Is there evidence of clustering in the data by creating biplots of the each of the components plotted against one another? Why or why not?
 - 5. Do any of the biplots reveal any interesting structure?
 - 6. How many pcs are required to explain 75% of the variance in the data?