CSI 3336 Systems Programming
Project 2

Shell One-Liners

As we've noticed in class, sometimes you can get a job done with a single line of shell code. For each of the following, give a line of shell code (containing back-quoted commands, pipes and fancy regular expressions as needed) that does the requested job. These can be tricky, so you will probably have to edit them a bit to get them just right. Submit "oneLiners.txt", a text document that contains your one-liners, using the submit script and turn in a printout of what you came up with. Make sure you include your name in the document.

One piece of good news … you do not need to worry about hidden files. Two pieces of bad news though … you cannot use xargs or exec within find. Sorry.

1. Remove all files, in the current directory, ending with a ".number". (e.g. file1.txt.1, file.23)

2. Use rename to change all files, in the current directory, ending in .csv.txt to .csv

3. Using ~maars/cs3336/files/kjv.txt, print out the number of lines that the string Jesus appears. (case insensitive)

4. Using ~maars/cs3336/files/kjv.txt, print out the number of times that the string Jesus appears. (case insensitive)

5. Using ~maars/cs3336/files/kjv.txt, print out the ten most used words in descending frequency. (case insensitive)

6. Print out the names of all users that currently are running a process. Print names in alphabetical order and print each name at most once.

7. Tarball a directory named assign3, located in the local directory, and name the archive username-assign3.tar.gz, where username is your username. (i.e. your username is smithb, the archive should be named smithb-assign3.tar.gz).
   The .gz file ending indicates that the tarball has been compresses using gzip.

8. Extract the contents of a tarball.

9. Find all files ending in .sh in the current directory and change their permissions to rwxr--r--.