COMP 311 (LINUX OS LAB) PROJECT

Due Monday 10/12/2018 (by 14:00 pm)

Under your home directory, create a directory called ***finalproject*** and underneath it do the following:

Write a shell script called ***formatfile*** that when executed will display the following menu:

1. ***Convert file from formatA to formatB***
2. ***Exit program***

Each time the user selects item 1 from the menu, he/she will be asked to enter the name of the original file (source file to be formatted) and the name of the resulting file (file in new format). Script ***formatfile*** should then call a script called ***convertfile*** and pass it the source and destination filenames as parameters. Script ***convertfile*** should read the source file and produce the destination file. The program should keep running and reprinting the main menu (asking the user if they would like to convert other files) until the user selects item 2 from the menu which should exit the main script.

The original (source) file may be ***of any size*** and has the following format:

x(:,:,index)= /* value of index maybe up to 99999 */
value value
x(:,:,index)=
exponential *
value value
x(:,:,index)=
value value

The resulting file should have the following format:

index value
index value (including exponential)
index value

Example:

Assume you have a file called ***mydata*** that contains the following data:

x(:,:,5)=
5.0567 5.0567
x(:,:,9)=
0.0345 0.0345
x(:,:,15)=
1.0e-007 *
0.6387 0.6387
x(:,:,117)=
0.0289 0.0289
…

Then your script should produce the following file (assume we call it ***result***):

5 5.0567
9 0.0345
15 0.6387e-007
117 0.0289
…

The following commands maybe especially useful in writing your script(s):

sed, uniq, cut, tr

Be sure to use the same names for your scripts as given above. Also, be sure to include any error checking necessary. ***You need to turn in a hardcopy of your scripts to your instructor by the due date and time***.

No projects will be accepted for any reason after the due date and time (Mon. 10/12/2018 by 14:00 pm). You should work on this project completely on your own.

IMPORTANT POINTS TO DO IN ORDER TO AVOID LOSING VALUBLE POINTS

1. Have a directory called exactly ***finalproject*** directly under your home directory on the Linux server **(scripts on laptops or other media will NOT be graded)**.

2. ***finalproject*** should include **ONLY** scripts ***formatfile*** and ***convertfile*** which should be **executable** and ready to run. NO OTHER files (testing or others) should be in that directory at the due date and time.

3. Do all error checking necessary such as for non-existing source files and other errors.

4. **DO NOT** share any of your script(s) code with anybody.

5. Turn in a hardcopy of your scripts with your name, stud. Id #, and section # by the due date and time. **Late hardcopies will not be accepted**.

6. Make sure you include enough comments in your scripts to clarify what you are doing (use #).