

CpSc 207; Spring, 2016
Homework 1 (Chapter 3)
Dr. Conlon

Open two text windows. Adjust the windows to be 80 characters wide. Log onto Obsidian from each window. In the first window, perform the following steps. In the second window, use vi (or vim) to write each of the command lines you use to perform each step. When done, print the file you created with vi, and submit it.

1. Create a simple text file containing your name and address using *cat* and *<ctrl>D*. Do not use any other program.
2. List the files in */etc* in timestamp order. Include "dot" files, too.
3. Create a directory called *cpsc207* if you haven't done so previously. Make *cpsc207* your working directory.
4. Create directories called *homework*, *labs*, *projects*, *misc*, and *classwork*, if they don't already exist.
5. Delete the *misc* directory.
6. Make *homework* your working directory.
7. Create an empty file called *temp*.
8. Delete *temp*.
9. Copy the directory */home/SRUNET/michael.conlon/cpsc207/resources* into your *cpsc207* directory.
10. Make *cpsc207* your home directory. Change the names of the directories in *cpsc207*, if necessary, so that they match the names in step 4 above, including capitalization.
11. Make *resources* your working directory.
12. Inspect *world95.txt* one windowful at a time. Go back one windowful. Advance one line. Quit looking at the file.
13. Find the hostname of this computer. Find its IP address.
14. Using *grep*, answer the following questions about the file, *world95.txt*.
 - a. What is the number of the first line that contains the word, *Jersey*?
 - b. Find lines with the word *The*, (not *them*, *there*, *then*, etc.) regardless of capitalization.
 - c. Find all the lines that do not have the string *ion* in them.
 - d. How many lines contain the word, *domestic*, regardless of capitalization?
 - e. Find the sixteen lines starting with the line that contains *@Bangladesh:Economy*.
15. Find the first ten lines of *world95.txt*.
16. Find the last fifteen lines of *world95.txt*.
17. Using a pipeline of commands like the last two, find the 300th through 310th lines of *world95.txt*.
18. List the words in the file *words* in alphabetical order.
19. List the words in the file *words* in alphabetical order, without duplicates.
20. Use *tar* (and perhaps *bzip2*) to decompress and de-archive *TECO-master.tbz*.
21. Move *TECOPocketGuide.txt* into the *doc* directory inside the de-archived *TECO-master* directory. Use *tar* (and perhaps *bzip2*) to archive and compress all the files in the *TECO-master*, directory. Call the resulting file *TECO-master-new.tbz*.
22. Display the date in Coordinated Universal Time.
23. Find out who is logged onto the system.
24. Find out how long it has been since the system was last started.
25. Find out how much memory the system has, and how much is in use. *at* refer to you.