

COP 3344 Introduction to Unix, Fall 2007

Assignment 4

Due 19 Nov 2007, 10 pm

Note: (i) You should try out your answers on some Unix machine and then create a file called `HW4.txt` that contains your answer to each question. You should use one of the editors available on Unix to write the answers. You should submit the `HW4.txt` file using the digital dropbox on blackboard. (ii) Each question is worth 5 points. (iii) You must give one command for each of these questions. You may not `cd` to a different directory and then run a command.

1. How will you use `grep` or `egrep` to output all lines in all files in the current working directory that contain the string `float`?
2. How will you use `grep` or `egrep` to output all lines in all files in the parent directory of the current working directory that contain the string `float`?
3. How will you use `grep` or `egrep` to output all lines in all files in the grandparent directory of the current working directory that contain the string `float`?
4. How will you use `grep` or `egrep` to output all lines in all files in your home directory that contain the string `float`? (You should use an abbreviation for your home directory.)
5. How will you use `grep` or `egrep` to output all lines in all files in user `cop3344`'s home directory that contain the string `float`? (You should use an abbreviation for `cop3344`'s home directory.)
6. Assume that the parent directory of the current working directory contains a directory named `dir1`. How will you use `grep` or `egrep` to output all lines in all files in the directory `dir1` that contain the string `float`?
7. Assume that the current working directory contains a directory named `dir2` which in turn contains a directory called `dir3`. How will you use `grep` or `egrep` to output all lines in all `.cpp` files in the directory `dir3` that contain the string `float`?
8. How will you use `grep` or `egrep` to output all lines in all files in the current working directory that match the following pattern: the pattern starts with `c` followed by `a` followed by zero or more `t`?
9. How will you use `grep` or `egrep` to output all lines in all files in the current working directory that match the following pattern: the pattern starts with `c` followed by `a` followed by one or more `t`?
10. How will you use `grep` or `egrep` to output all lines in all files in the current working directory that match the following pattern: the pattern starts with `c` followed by `a` followed by zero or one `t`?
11. How will you use `grep` or `egrep` to output all lines in all files in the current working directory that match the following pattern: the pattern starts with `c` followed by `a` followed by one more character?
12. How will you use `grep` or `egrep` to output all lines in all files in the current working directory that match the following pattern: the pattern starts with `c` followed by `a` followed by zero or more occurrences of any character?
13. How will you use `grep` or `egrep` to output all lines in all files in the current working directory that match the following pattern: the pattern starts with `c` followed by `a` followed by any decimal digit?
14. How will you use `grep` or `egrep` to output all lines in all files in the current working directory that match the following pattern: the pattern starts with `c` followed by `a` followed by any even decimal digit (including `0`)?
15. How will you use `grep` or `egrep` to output all lines in all files in the current working directory that match the following pattern: the pattern starts with `c` followed by `a` followed by one of the following (i) `abc` or (ii) `bac`?
16. How will you use `grep` or `egrep` to output all lines in all files in the current working directory that match the following pattern: the pattern starts with `c` followed by `a` followed by zero or more occurrences of either of the following (i) `abc` or (ii) `bac`?

17. How will you use `grep` or `egrep` to output all lines in all files in the current working directory that match the following pattern: the pattern starts with `c` followed by `a` followed by one of the following (i) `a` followed by one or more `b` or (ii) `bac`?
18. How will you use `grep` or `egrep` to output all lines in all files in the current working directory that match the following pattern: the pattern starts with `c` followed by `a` followed by any character other than a decimal digit?
19. How will you use `grep` or `egrep` to output all lines in all files in the current working directory that begin with the string `float`?
20. How will you use `grep` or `egrep` to output all lines in all files in the current working directory that end with the string `float`?

Submission instructions

1. Name the file containing your answer `HW4.txt`
2. Login in to blackboard and select the *Intro. to Unix* course.
3. Click on *Student Tools* (alternatively, select *Dropbox* and skip the next step)
4. Click on *Digital Dropbox*
5. Click on *Add File*
6. In the field *Name*, write your name and the number of the assignment
7. In the field *File*, write the path to your file `HW4.txt` (or browse it using the browse button)
8. Write comments in the *comments* field if you need to
9. Click *Submit* and then Click *OK* in the popup window
10. Click on *OK* in the receipt page
11. Click on *Send File*
12. On the *Select Field* list, select the file you need to send
13. Click on *Submit*
14. Click *OK* on the receipt page

Note: If you don't do all the steps, then your file will not be sent! *We strongly suggest that you submit the assignment at least a day in advance, so that you will have time to fix any problems that arise. Also, please do not modify any of your original homework files, so that we will have a correct time stamp to look at, if there are problems with your submission.*