

Spring 2007: CS 333 – UNIX Operating Systems Fundamentals

Homework – 3

75 points. Individual work only. Due March 28, 2007.

1. The command **ls** lists the files in a directory. Using UNIX commands create an alias named **lsd** that lists only the directories not the files (i.e., if **lsd** is called inside **/home** it will list all the directories that are inside **home**). Note that **lsd** can't be used on directories that are not the current directory (e.g., being in **/home/usr1** you can't list the directories in **/home/usr2**) [25 points]
2. For the following operations write down the command/s used along with the options and the output produced: [25 points (5 points each)]
 - a. Create a file with the list of the files in your directory, name it named **files** and change the permissions so that only you and other users from your group can modify it.
 - b. Using numerical permissions change the permissions of **files** so that the only users that can execute it are other users. You and users from your group can't read, write, nor execute it.
 - c. Change the permissions back so that you can read, and write; members of your group and other users can only read **files**.
 - d. Change the **umask** value so that new files that are created have only read permissions for you, members of your group, and other users. Create a file called **listingfiles** with the contents of your directory (similar to **files**)
 - e. Create a variable named **NUM_FILES** that holds the number of files in your home directory. The number of files should be calculated using UNIX commands.
3. For the following commands explain what action is performed: [25 points (5 points each)]
 - a. **sleep** 100 &
 - b. **split** -10 file1 f+; **cat** f+* > file2
 - c. **chmod** 700 myfile
 - d. **chown** user2 myfile
 - e. **cp** -p file1 file2

NOTE:

1. Submit typed answers for all questions in class on the due date.