

Special Extra Credit Assignment (Optional)

Due: October 21, 2019

Points: 100

The goal of this extra credit is to encourage you to try different things on Linux, to get used to that system. It is *completely optional*.

1. (10 points) The Linux manual has 8 sections. When you see “*man(1)*”, that means the manual page for the command `man` is in section 1 of the manual. To see what each section of the manual contains, look at the *intro* manual page in each section.
 - (a) What command would you give to print the manual page for the system call `creat` in section 2 of the manual?
 - (b) Please write a one-line description of what each section of the manual contains; for example,
Section 1: user commands
Section 2: system calls
2. (10 points) What command(s) would you use to copy the file `/home/bishop/hw1-programs/vis-output` to your home directory and make it read-only by everyone (owner, group, world).
3. (10 points) What command would you use to create a subdirectory called “test” in your home directory. With what access permissions is it created?
4. (10 points) Write a command to print *only* the last line of the file “`/etc/passwd`”.
5. (10 points) Show the command to make a copy of the directory `/usr/bishop/hw1-programs`, and everything it contains, in your home directory, with *one* command. *Hint*: Look at the `-r` option to the copy command `cp(1)`.
6. (10 points) When I write data into the file `/dev/null`, what happens to it?
7. (10 points) The program `ls(1)` lists the contents of a directory. But it does not list any files whose names begin with “.” (period). What option would I give to `ls` to include those files in the output?
8. (10 points) Every directory contains a subdirectory named “.”. What is that subdirectory? And what is the “.” in the root directory “/”?
9. (10 points) The file `/usr/share/dict/words` contains a list of English words. Write a command that will put all words in that file that contain the character sequence “gry” in the file `GRY`.
10. (10 points) How would I list all files that begin with “a” and end with “.txt”?