CST 334: Operating Systems

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# Basic bash commands, II

**Purpose**: to give you some practice on the basic bash commands you will be using all the time

**Instructions**: Answer each of the questions below by giving the bash command you would use. Insert your answers into file [bash2.txt](https://drive.google.com/file/d/1cEJqGiqlkecBdOHJsK69xlGZ4VzfOwhE/view?usp=sharing) by editing the file. I recommend you try out your answers at the command line.

1. Copy all .c files in the 'src' subdirectory of the current working directory to the 'archive' directory of the current working directory.
2. Delete all .c files in the current working directory that have names beginning with 'temp'.
3. List all \*.c files in the 'src' subdirectory of the current working directory and all \*.c files in the 'archive' subdirectory of the current working directory. You can do this with one command.
4. Using symbolic mode, give execute permission on file test1.sh (in the current working directory) to everyone.
5. Using symbolic mode, remove write permission on file test1.sh (in the current working directory) to everyone.
6. Using octal model, make file test2.sh in the current working directory have permissions so that you (the owner) can read, write, and execute it, group members can read and execute it, and others have no permissions on it.
7. Create a tar file 'data.tar' containing all .csv files in the current working directory. Do not use any dashes in your command, and don't use the verbose option.
8. Compute the differences between msh1.c and msh2.c, and direct the output to file msh-diffs.c.
9. Write a bash 'for loop' that will print the name and then print the contents of every .sh file in the current working directory. Use 'f' as the loop variable. Your command should be on a single line.
10. Compute the number of files in the current working directory (including files that start with '.') by using commands ls and wc.

Please note that you will only get credit for answers that exactly match the suggested answer -- even if your answer works.

**Testing your answers**: You can test your answers before you submit. On mlc104, in directory /home/CLASSES/brunsglenn/cst334/hw/hw3, you will see file bash2.tar. You will have to extract the files in this tar archive file using the tar command. The tar file contains files test1.sh, test2.sh, test3.sh, …, get-response.awk, and Makefile. File test1.sh will test whether your answer to problem 1 is correct. You can run it like this:

$ ./test1.sh; echo $?

You will see output 0 if your answer to problem 1 is correct. You can check all of your answers by running the 'make command', like this:

$ make

**Submission**: Submit your edited bash2.txt on iLearn.

**Grading**: Each problem is worth 2 points.