

- **CODE!** If you are having difficulty writing programs, consider programming more often. Working on C every day makes a big difference, and leaving it alone, even just for a weekend, can result in backsliding. You are learning a language and a way of thinking. An hour a day is going to teach you more than seven hours on a single day.
- Some programs below are associated with a question. **Answer the questions** using C comments below your code in the program file.

Tasks

1. The command “ls -al” will show you file permissions. File/directory permissions, also called the “mode” of a file, control who is allowed to change, read, or execute a file. Find the section of your Unix text that explains file permissions and how to read them. In your script, type the shell command “ls -al” and circle a directory’s permissions in the listing. Label three different permission codes (like `r--` or `rwX`) and explain what they mean. Label the largest and smallest files.
2. Complete the assignment on the page “makeWebPage.html” in this directory. Then complete the remaining parts of this lab.

Programs

For each numbered problem below you will write a small program. Name each program lab06.n.c, where n is the number in the list below. For example, the name of the file for the first will be lab06.1.c

3. Write a program to demonstrate that when we pass an integer or double to a function from main(), changing the function parameter inside the function does not change the value in main.
 4. Write a program to demonstrate that when we pass an entire array to a function from main(), changing an element of the function’s array parameter inside the function does change the value in main.
- Programs 3 and 4 are crucial points to understand for the rest of the semester. Be sure you **see** what is happening in your code and in your results. We’ll discuss this in terms of the computer’s memory in class.

You should have a total of 2 programs named lab06.3.c to lab06.4.c. Make a single script file (see lab00 for the scripting instructions) where you cat, compile, and run each one in its final form (if it didn’t compile, don’t run it in the script - mark the place in the printed script file with a colored marker so it stands out). After all files have been run in the script, use ls and cd to show your new directories and their files in the script.

On the first page of every printed copy for this course, your name, section, and TA’s name must appear.

Submit all program and script files on MyCourses before midnight Thursday of next week, and give the paper version to your TA at the beginning of your Friday lab (or in lecture Friday if you have a Wednesday lab). Note: cat, compile, and run each program in order! Do *not* cat all programs, then compile, etc.