

Week 5 Lab

This Week

Next week you will demonstrate your the first of C programs you will write that will create a calculator. The backlog from which you will be developing is the calc backlog. You should be able to access the Unix terminal, edit the program using nano and compile it using gcc.

In addition, you will need access to the following files:

- **The backlog at sp.nathanielgmartin.com/calc-backlog.** It is a pdf file, so you can download it if you need to. However, it is better to access it through the Internet in case we need to update the backlog. In real life backlogs get updated every time some new problem is discovered. For next week you will attempt stories 1-5. (**Tip:** story 1 is just like hello world. Modify main.c to print out a message and you are done. These should be easy marks.)
- **The files at sp.nathanielgmartin.com/wk1-calc.zip.** Download these using the command `wget sp.nathanielgmartin.com/wk1-calc.zip`. (**Another tip:** The files you download are formatted correctly and compile. You will receive 10 out of 15 marks for correct formatting and error free compilation, so you can receive 66% of the marks just by downloading the file. Do not take this as a license to slack off: 66% is not a good grade, you will not get as many marks in future weeks, and you will need to complete the functions some time and will not get marks after the demo next week.)
- Once you have downloaded the files, unzip them in your project directory to create the directory `wk1-calc`. In that directory you will file the following files:
 - **Makefile:** this file tells how to compile the program: you can type `make` or `make clean` at the unix prompt. `Make` by itself will compile the program; `make clean` will remove all of the files the compiler creates.
 - **calc.c:** You will be working in `calc.c` most of the time. All of the functions you will modified are found in this file.
 - **calc.h:** `calc.h` contains the definition of all of the files in `calc.c` and those that will be put in `calc.c` when you complete more of the backlog.
 - **main.c:** `main.c` contains the main function. This is the function that is called first when the program runs. You will need to modify this function for story 1, but after that, it need not be changed.

Demo

Today you will demo the second half of the backlog from last week.

Marks

- Story 6 (15 Marks)
 - Formatted correctly
- Story 7 (15 Marks)
 - Compiles without errors
- Story 8 (15 marks)
 - Prints “Hello World!” (10 Marks)
 - Print new line (5 marks)