

# Bonus - Emacs + Org-mode Test Suite

CSC 100 - Lyon College - Spring 2025

## Prerequisites

These tests will run provided you have the following applications available (installation instructions work under Linux only):

- Emacs:
  1. Executable: emacs
  2. Check with: `emacs --version`
  3. Install with: `sudo apt install emacs`
  4. Configure: `wget -O .emacs tinyurl.com/lyon-emacs`
- GCC (already installed):
  1. Executable: gcc
  2. Check with `=gcc --version`
- Note that you can also get Emacs/GCC and bash for the tests below in a Windows environment, but then the installation is rather painful.

## C Test

- You should be able to create a code block with the keyboard sequence `<s TAB` - if this does not work, you did not install the configuration file `.emacs` properly:
  - The file may be in the wrong location: It should be at `~/.emacs`
  - The `wget` command may have failed because of a typo (the flag is `-O` and the `O` is Big-Oh as in "Otto").
- Hello world program:

```
printf("Hello, world!\n");
```

```
Hello, world!
```

## C++ Test

- Hello world program:

```
std::cout << "Hello, world!" << std::endl;
```

## Shell test

The following program generates an input file as stdout, and the C code reads the file as stdin:

Hello, Marcus

- Tangle [hello.c](#) with C-c C-v t (or M-x org-babel-tangle)
- You can now view the file here:

```
int main() {
printf("Hello, world!\n");
return 0;
}
```

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