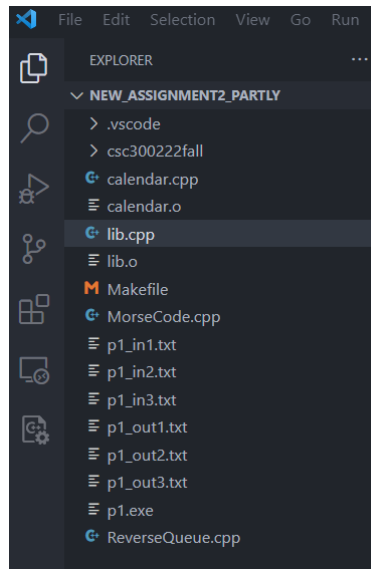# README

The assignment guide for CSC3002, 22Fall. (Version 1.1)

You may use the given `.txt` file for the test samples to test individual problem on your own computer before submitting to OJ. All operations are done through the command lines:

NOTE: If you are using the VS Code, please make sure that current workspace (opened folder) is like this, without its parent folder opened.

If not, go to "File" > "Open Folder" to reopen the folder to the assignment directory.

1. Compile

- for making all the problem source codes to the corresponding executable programs:

```
make all
```

- for making an individual problem to an executable program (problem 1 is `p1`, problem 2 is `p2` ... for instance):

```
make p1
```

2. Run & Test

then you can use following command to run the program, with the given test input in `p1.txt` (we take `p1.txt` for instance, choosing your desired test input file is also okay).

The `< p1.txt` in the command means "putting the content of `p1.txt` to the standard input (`cin`)", so that our code in `main` function can read it.
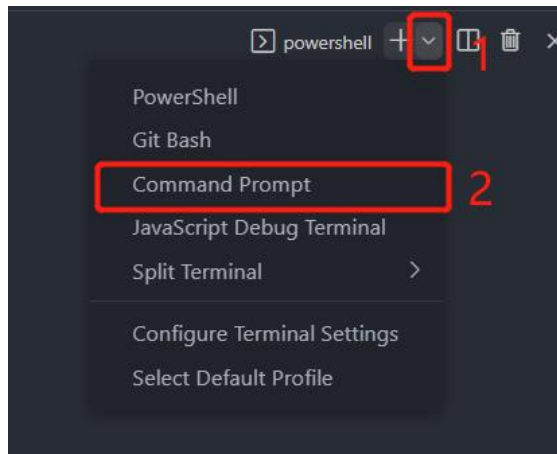
2.1 macOS

```
./p1 < p1.txt    # for macOS
```

2.2 Windows

```
p1.exe < p1.txt  # NOTE: for win, you can only use "cmd" to run this command,
"powershell" may lead to failures.
```

- If your default terminal in VS Code is `powershell`, you can open a new `cmd` terminal by this:

And type the commands above.

3. Clean

To clean the intermediate `.o` object code and final executable files, you can run:

3.1 macOS

```
make clean
```

3.2 Windows

The delete files command on the Windows is not `rm`. So you need to change the last block of `Makefile`, from

```
clean:
    rm -f *.o *.a $(PROGRAM)
```

to

```
clean:
    del *.o *.a *.exe
```

And then run the `make clean` at the terminal.

4. Submit

Please refer to `Blackboard >Tutorial Notes > Tutorial 3 > OJSystem-guildline.pptx` for registry on the OJ system.

On OJ, you only need to **copy and paste all the content** from the `.cpp` file to that corresponding question code box. For instance, in Problem 1, you need to paste the **whole content** of file "calendar.cpp" onto the submission part in the OJ system, then click "Judge" to get your program run.

5. Miscellaneous

- Using any headers in the standard library (c++17) is OK. But **DO NOT** use the function / class that have the exactly functions as the assignment ask you to do. For example, don't use `std::vector` when the task asks you to implement a vector, or use `std::sort` when the task asks you to sorting an array.

- Remember, **DO NOT modify the** `main` **function part**, otherwise your program will not generate the correct answer, and leads to zero mark.
- You can submit **multiple times** before the deadline, only last submission counts.
- Notice that the score after pre-test is not your final score. That only shows your submission can be compiled or not on the OJ. Please check the score after our assignment due date.