

README

The assignment guide for CSC3002, 22Fall. (Version 1.3.1)

NOTE: Those `.txt` files **do NOT mean you are going to use any file operations** to read them as input and write them as output. All tasks, requires you to get the input from `cin` and print the output at `cout`. You may find the given `.txt` files useful, to conveniently use the samples to test individual problems on your own computer before submitting to OJ. **The details are in section 2.**

On our OJ system, we will use **a similar way in section 2** to test your program.

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).

NOTE 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.

注意 使用 `<` 符号是将txt文件里的内容依次导入到标准输入流里。从而，你的程序可以通过 `cin` 来读取标准输入流里的txt文件的内容，而不需要手动输入。

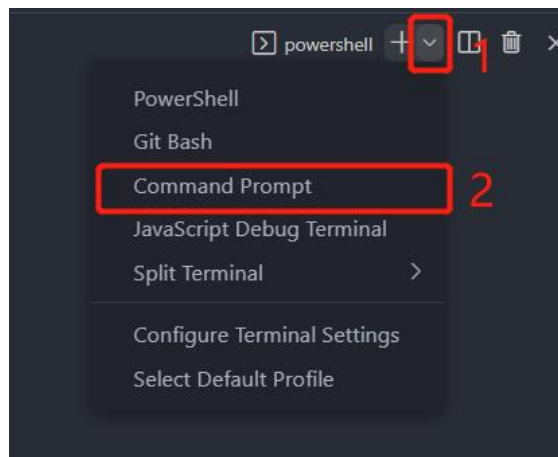
2.1 macOS

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

2.2 Windows

```
p1.exe < sample.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:

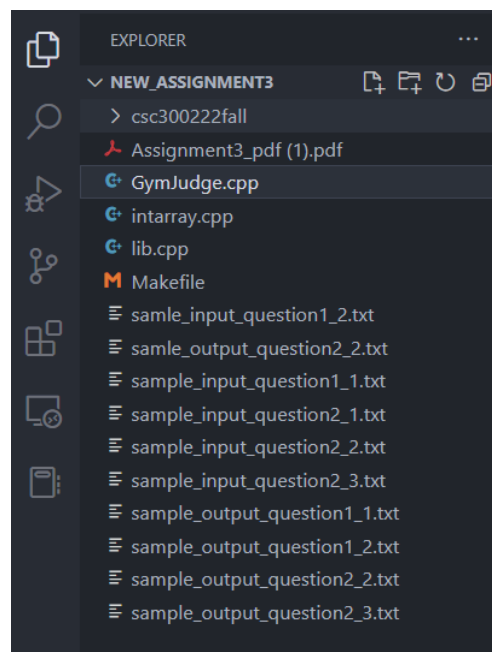


And type the commands above.

2.3 FAQ: Why I can't compile my program???

Q1: when I type in `make pX` (where X is your question number), it says "make: *** No rule to make target `pX`. Stop."

A1: Please make sure you opened the correct folder in VS code (the assignment folder, not its parent folder. Refer to the **NOTE** above). On the left side of your VS code, it should be like this:



If not, go to "File" > "Open Folder" to reopen the folder to the assignment directory. Re-open a terminal, and type in `make pX` (X is your question number).

If is still not OK, make sure you have no changes in the `Makefile`.

Q2: why I can't type in `make <problem name>` to compile my program?

A2: Each question's program contains `lib.cpp` and `<problem name>.cpp`. Simply typing in `make <problem name>`, only `<problem name>.cpp` will be compiled, without `lib.cpp`. So it goes wrong. Please type `make pX` (X is your question number) to compile.

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-guidline.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 "GymJudge.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 sort an array.
- Remember, **DO NOT modify the main function part**, otherwise your program will not generate the correct answer, and leads to zero mark.
- **One more empty line after your whole output** content is OK. No more empty line after your whole output content is also OK.
- **Access code is on Blackboard.**
- Generally, **it's OK to ignore the warnings** provided by the OJ system. But still you may investigate them and find a way to solve them.
- 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, and passing some tests on OJ. Please check the score later.
- The score will not be released just after the deadline. Only after all the programs are tested and the grades are confirmed by the TAs, the grade will be released.
- **no more late submission is allowed after the deadline**, which means the contest on OJ would not be accessible after the deadline, so make sure that you submit your assignment before the deadline.

- For strong valid reason, please contact Prof. Kinley **within 1 day after the deadline**.
- Ignore the ".DS_store" file in the assignment folder, if you are a Windows user.
- **To get more information about usage of OJ**, please refer to <http://10.26.200.13:3000/> (campus network / campus VPN only).