CSC3002 Assignment Assessment Scheme

CSC3002 uses C++ as the programming language to show you more advanced programming skills and different programming paradigms, therefore the homework assignments are required to be written in C++. Besides the correct results from your programs, we also value the clear logic and good habits that you demonstrate in your code. We are also hoping that you can learn how to write programs with the help of others' code, e.g., both the standard C++ libraries and external resources like the Stanford libraries. In order to achieve these goals, we carefully picked some assignments from the textbook and wish you enjoy these exercises .

Assignment Arrangement

There are 6 sets of assignments including 20 programming problems in total. Each problem is worth 2.5 points, and totally 50 points will be counted towards your final mark (another 50 from the final exam). The content of each assignment will follow the teaching process of the course. We have carefully balanced the workload throughout the entire semester. Each assignment will usually be released on Friday and due two weeks later.

Assignment Submission

For each assignment, you will need to submit your code to Black Board before the due date. We will deliver a zip file for each assignment and when submitting, please also submit a zip file with the same structure of the original archive and name it using your student ID. For example, if the delivered version is:

```
assignment-1.zip
  +-- src
     |-- question_1.h
     |-- question_1.cpp
  |-- assignment.pro
```

Then you should submit

```
XXXXXXXXX.zip
  +-- src
     |-- question_1.h
     |-- question_1.cpp
  |-- assignment.pro
```

where `XXXXXXXXX` is your student ID.

0.5 points will be deducted for each problem if you failed to submit your assignment in the required format (or structure).

Late Policy

Please make sure to submit assignments on time, otherwise grade will be deducted for each late submission:

- -0.5 for late submission within 2 hours (including 2 hours)
- -2 for late submission within 2 to 12 hours (including 12 hours)
- not acceptable for late submission beyond 12 hours

Grading Environment

We may run your code with an environment that support the Stanford library.

- `GCC/Clang` environment
- `c++17` Compatible
- `Qt 5.14` with `OpenGL`

You are **NOT** allowed to use any third-party library other than STL, QT and Stanford Library. Therefore, if you get you assignment compiled locally, it should be okay for us to run you code. However, we sincerely hope that you can double check you code and make sure it does not include any platform-specific code (for example, `windows.h`). If the compilation failure is **caused by the difference of environment ONLY**, you may have one chance to debug your code.

Grading Criteria

Level	Grade	Requirements
A	2.5	Complete all the requirements perfectly. Code compiles and runs smoothly with correct behaviors. Comments are clear but not verbose. Code style is consistent. Exceptions are handled correctly.
A-	2	Complete all the requirements. Code compiles and generates correct answers. Comments and code style are okay but not perfect. There are possibly exceptions that are not handled .
B	1.5	Complete the basic requirements. Code compiles and runs. There are possibly some small bugs. There are possibly exceptions that are not handled .
C	1	Code compiles. Some requirements are not met. There are possibly obvious bugs, serious memory problems and undefined behaviors. Coding habits are considered to be bad.
D	0.5	Work is incomplete and buggy. Code may fail to compile.

Some good code style guide to follow

- LLVM Style: https://llvm.org/docs/CodingStandards.html
- GNU Style: https://gcc.gnu.org/codingconventions.html
- Google Style: https://google.github.io/styleguide/cppguide.html

We do not require you to follow any specific coding style but please make it beautiful and consistent.

ZERO Tolerance for plagiarism

You must make sure to finish your assignments on your own. We will check the code and may submit your code to MOSS to check similarity. Once plagiarism is spotted in the submission, you will get no grade from that assignment and we may have to report it to the academic committee depending on the severity of the problem.