Grading Rubrics

[CS 225] Advanced C/C++

1. Overview

Programming assignments in this course will use C and C++ programming languages. More specifically, all programs must adhere to the C99 and C++17 standards, which are what this course is about. Every assignment will consist of a program specification, which describes the functionality that needs to be implemented, and it may include a list of classes or functions that you must implement to complete the assignment. You must strive to follow all of the directions exactly as specified in the specification.

Your submissions will be evaluated by Moodle with a modern GNU g++ compiler (9.3.0 or newer).

2. Rubrics

Assignments are graded on the scale letter presented in the syllabus with the qualitative statements. Submissions must be uploaded to Moodle, and they are evaluated automatically:

- Critical penalties – these result in an immediate grade F.
    - Submission does not build properly, where at least one driver file does not compile (or does compile when it should not) with required flags into a valid program.
    - Submission is deemed late by Moodle. Do not wait until the last minute, as uploading the work after the deadline is impossible; you also want to avoid unforeseen technical issues right before the deadline. There is no grace period.
    - Submission is missing content of a required file. Follow the specification document and take note of sources provided in Moodle for each assignment.
- Major penalties – these result in deductions of marks.
    - Program compiles, but execution of tests does not result in expected output.
    - Program experiences memory leaks. *Memory management is king*.
    - Program crashes. or mismatched output per driver file, per unit test.

Additionally, the lecturer reserves the right to impose penalties for the following offences:

- Plagiarism is a critical penalty. Additional consequences will follow.
- Significant variation from the specification, even if the output is correct is a major penalty.

The lecturer also reserves the right to impose reasonable penalties for the code that clearly violates general practices or the specification in an obvious way that has not been mentioned above. The lecturer reserves the right to lower the grade if despite matching the expected output for test cases, the code does not demonstrate implementation of required techniques or would leak resources in a reasonable use-case beyond given test cases.

3. Assignment Submission

All assignments must be submitted via Moodle. The platform will indicate which files must be provided, and it will run automated evaluation immediately upon submission. Every assignment submitted on *Moodle* contains a date and time stamp. If you wait until the deadline is near to begin work on your assignment, you may not be able to complete it on time.