Computer Science I

Code Rubric

Department of Computer Science & Engineering

University of Nebraska–Lincoln

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This is a draft of items/elements that will be included in rubrics for assignments and hacks.

Following Instructions

- All required soft-copy files handed in via webhandin
- Correct file name(s) and organization
- Programs successfully compile and execute using the webgrader

Style

- Appropriate variable and function/method identifiers
- Style and naming conventions are consistent
- Good use of whitespace; proper indentation
- Clean, readable code
- Code is well-organized

Documentation

- Well written comments that clearly explain the purpose of each non-trivial piece of code
- Comments explain the "what" and "why"

- Comments are not overly verbose or overly terse

- Code itself is "self-documenting"; it explains the "how"

Program Design

- Code is well-organized and efficient

- Code is modular; substantial pieces of it could be reused; few redundancies

- Code is easily understood and maintainable

- It is clear that sufficient testing has been performed

- Corner cases and bad input have been anticipated and appropriate error handling has been implemented

Program Correctness

- Source code compiles and executes as expected

- Program runs as specified: correctly reads any input; correctly formatted output

- Test cases successfully execute