ISC210 Evaluation Rubric

The following rubric will be using for grading the source code (regardless of the programming language) submitted for this course including homework and other relevant assignments. There are four categories under which your programs will be graded, including functionality, readability, documentation/styles, efficiency. Each category will be assigned a specific rubric score (0-5). Rubric scores will be multiplied by a weighting factor for each category to determine the final score of the code.

Functionality/Specifications (50%)	Rubric Score
The code is completely functional and responds correctly producing the correct outputs and or responses under all test cases.	**5**
The program is mostly functional and responds correctly producing the correct outputs and or responses under most test cases. There are minor problems with the program implementation.	**3**
The code is marginally functional with numerous errors. The code may respond correctly under certain circumstances, but there are significant errors and/or incomplete code sections.	**2**
The code is minimally functional with significant portions of the code missing or incomplete. The code is largely non-responsive to most test cases and/or inputs.	**1**
The code is not functional, meeting no significant design specifications, or was not attempted.	**0**

Readability (20%)	Rubric Score
The code is extremely well organized, properly formatted, and easy to follow.	**5**
The code is reasonably easy to read. There are minor formatting problems.	**3**
The code is only readable only with significant effort. There is little to no proper formatting.	**2**
The code is poorly organized and difficult to read. There is little to no consistency in formatting.	**1**
The code is readable only by the author or someone extremely knowledgeable with its layout and purpose.	**0**

Documentation (20%)	Rubric Score
The code is extremely well documented. Comments are completely consistent with the associated code. There are no spelling and/or grammar errors that detract from the documentation.	**5**
The code is reasonably well documented. There are minor formatting omissions that would have improved user understanding of code purpose. There may be limited grammar or spelling errors.	**3**
The code is marginally documented. There are significant portions of the code that are not documented or documented 2 incorrectly. There are a significant number of spelling and/or grammar errors that detract from the documentation.	**2**
The code is poorly documented. There are minimal comments and/or the comments are incorrect.	**1**
The code is not documented.	**0**

Efficiency (10%)	Rubric Score
The code is extremely efficient without sacrificing readability and understanding.	**5**
The code is mostly efficient without sacrificing readability and understanding. Some improvements could be made through a better choice of language constructs where appropriate.	**3**
The code is marginally efficient. There are a significant number of cases where use of different language constructs should have been considered. The approach used in implementing the code leads to inefficiencies.	**2**
The code is a brute force implementation and unnecessarily long.	**1**
The code is inappropriately long and appears to be patched together.	**0**

Formula

The formula to be applied to rubric evaluation totals is as follows:

$$\frac{(Rubric \times Percentage)}{5}$$

Grades will be provided as the sum of all rubric totals. The highest grade will be ***100***.

Notes

- When not specified you are free to follow the design techniques you see fit. Those who take into account ease of use, read and maintain will earn extra credit.
- Memory footprint and benchmark optimization will result in extra credit.