Grading Rubric:

**Readability and Maintainability: (16 pts)**

1. Program is properly formatted for readability (indentations, empty lines, length of lines.)
2. Identifiers are consistent with convention.

3) Program code includes more than one method.

4) Program uses local variables where appropriate.

5) Methods have only one responsibility to support reuse.

6) Program uses calls to same method to accomplish same steps.

7) Solutions to complex responsibilities are implemented using several methods.

8) Program is easy to read due to the incorporation of information hiding.

**Internal Documentation:(18 pts)**

1. Names of identifiers are meaningful.
2. Comments explain purpose of important variables.
3. Inline comments explain purposes of groups of statements
4. Comments for method headers clearly describe purposes of methods
5. Comments for method headers describe purpose of parameters and returned results
6. Comments describe purpose of each file/classes in each file.
7. Details of code / algorithm are explained where needed.
8. Important loops include (formal) pre- /post conditions.
9. Comments follow prescribed conventions. Method headers include pre/post conditions and clear statement of purpose. All variables and parameters have clearly defined purpose

**Evaluation and Test: (14 pts)**

1. Student shows that program compiles/can be executed
2. Program follows general specification of input/output.
3. Student shows that program generates correct output for several general cases.
4. Student explains, identifies, and tests (successfully) important problem cases (general and some boundary)
5. Student explains, identifies, and tests (successfully) most problem cases (general and nearly all boundary)
6. Program follows general specification for maintaining (persistent) data
7. Program follows nearly all specifications for input /output and (persistent) data