**Meaningful Comments: (10%)**

*\*Where appropriate. Comments for pre/post conditions should be written for every method that has non-trivial pre/post conditions.*

a) General Comments: (5%)

* Explains purpose of methods / variables in greater detail if necessary.
* Comments placed along complex points of the algorithm so that the reader can understand the statement / block in one glance.

b) Pre & Post conditions: (5%)

* Preconditions: Some examples are: range of acceptable values (i.e. x must be positive, list must have at least 2 elements, array index bounds must be correct, list cannot be null), state of parameters before the method is called.
* Postconditions: Some examples are: state of parameters / variables after the method is called (i.e. arraylist will be cleared after printing is completed). What happens to the variables after the method is called.
* Not just parameter list and return type. Must be conditions.

**Modularity: (10%)**

a) Breaking down problems into smaller subproblems: (5%)

* Do not put everything into the main method, shifting everything into a really big “run” method for the main method to call is also not acceptable.
* Main method should only handle I/O and call other methods to do the computation.
* Individual methods made should solve smaller subproblems.

b) Variable Scope: (5%)

* Avoid unnecessarily creating class variables that behave like global variables. (Having proper Object Oriented Principles, with attributes that make sense is ok)
* Try to declare variables in as narrow of a scope as possible.

**Meaningful identifiers: (5%)**

* Classes in UpperCamelCase, variables and methods in lowerCamelCase.
* Variable / Method names must be clear to the reader.
* Method names should usually start with a verb/action.
* Avoid using single letter variable names (eg. int a, int b…) even if they are part of the question context. Only exception is counters for a for/while loop.

**Indentation: (5%)**

* Consistent indentation (2 spaces, 4 spaces, tabs are fine, just keep it consistent for the whole file).
* Don’t mix spaces and tabs.