Ideal qualities of a program

1. Integrity
   1. It should do what it is intended to do
   2. It should handle limit cases
2. Clarity
   1. Readability of the program as a whole and of its lower-level logic
3. Simplicity
   1. Keep it simple!
   2. Compromise between execution speed and simplicity
4. Modularity
   1. Decomposition into well-identified sub-tasks
   2. Ease of maintenance and clarity
5. Extensibility
   1. Making programs generic
   2. Avoiding hardcoded values
6. Efficiency
   1. Execution speed and conserving memory
   2. Important, but shouldn’t be the only consideration