**The Code Rubric (What I expect to see in the code at the end of the day)**

I would like to see certain things that reflect what you have learned over this semester in your project.

* A custom library (with classes, functions, and constants)
* Iteration and decision making
* imports from your library and the standard library
* If you import a third party library, report it ahead of time.  I want to be able to run your code on my computer so if you use 20 third party libraries I’m going to be unhappy about it.
* File I/O - you must read input from a file and produce an output file.
* The use of a data structure (you will understand this soon, Unit 6)
* The use of object orientation (you will understand this soon as well, Unit 5). Specifically, I would like to see inheritance.

**The Data**

* You must use a data file with over 5,000 items.  They do not have to be random.  They can be programmatically formed (we do not expect you to handwrite thousands of lines of data).  They can be sorted or unsorted as you desire (sorting may be useful, but that depends on what you’re doing; it’s up to you).

Feel free to contact me and ask questions.