**Scoring Rubric for Project 7: Linked Lists, Stacks, Queue, Sorted Linked Lists, and Inheritance**

*Due 11/14/2019 @ 11:59 pm*

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|  | **Score** | **Maximum** |
| **Execution (50 pts):** | | |
| Program compiles without errors (warnings are okay) | 0 | **50** |
| **Implementation (45 pts):** | | |
| Writes a brief description of your dataset and why you chose to use it for this project. Implements the Data class with at least 4 data members, overloads the output stream operator, and overloads the comparison operators (< or >). | 4 | **5** |
| Implements the Stack class inheriting from LinkedList class; includes a default constructor, a member public function named “push\_head”, a member public function named “pop\_head”. | 10 | **10** |
| Implements the Queue class inheriting from LinkedList class; includes a private Node \*tail, a default constructor, a member public function named “enqueue\_tail”, a member public function named “dequeue\_head”. | 10 | **10** |
| Implements the SortedLinkedList class inheriting from LinkedList class and includes a member public function named “insertSorted” | 10 | **10** |
| Reads from CSV file and writes the content of the Stack, Queue, and SortedLinkedList classes into stacked, queued, sorted text files. | 5 | **10** |
| **Style (5 pts):** | | |
| The driver and functions are easy to follow based on the use of comments | 3 | **3** |
| Easily identifiable variable names | 2 | **2** |
| **Total (100 pts):** | 44 | **100** |

Notes:

I got a lot of errors when I compiled your program. In order to get it to work I had to add LinkedList.cpp and LinkedList.h to your CMakeLists.txt file. Then, I had to fix several things in the LinkedList.cpp class, which are things you should have been able to fix when you were running it.

You only use 3 data members for your Data class, not 4.

You’re opening and closing the files correctly. However, you are not reading in values correctly. You’re trying to read each of the three values row by row, but that is not how your file is structured. The program just hangs after reading in 91 values and doesn’t continue, so no output is written to the files. You don’t need to specify a delimiter in the last getline call. You should call stoi directly when converting the variables when creating a Data object. After making these changes and running on a small test file that matches the datatypes of your Data object, I was finally able to get your code to run. The Queue, Stack, and SortedLinkedList all work fine.