Homework 5
Due February 23rd 11:00 AM
100 points
CS 2235
Data Structures and Algorithms

1. Using the SinglyLinkedList class from the lectures (the code will be posted to Moodle), modify your code from Homework 4 to use a singly linked list rather than the Scoreboard class for problems 1,2 and 3.
2. Create a DoublyLinkedList class using the SinglyLinkedList class as a reference.
   Note*Hint* Pages 136-137 from the book contain much of the code and you are welcome to reference them; just make sure you understand it (these slides will be posted to Moodle for your reference).
3. Finally, modify your code from Homework 4 once again, this time using the DoublyLikedList. (Again, only parts 1-3)

Make sure to submit Java files for your SinglyLinkedList, DoublyLinkedList, GameEntry and both Scoreboards. As always, attach screenshots to demonstrate your code works.

Note: Sorting with Linked List can be challenging. We have yet to really discuss the nature of sorting algorithms, so for this assignment your Linked Lists **do not** have to be sorted.

Scoring
1. 10% - Code compiles without errors.
2. 25% - SinglyLinkedList class coded and used for first Scoreboard.
3. 15%- Scoreboard properly populated, with contents and summary printed using SinglyLinkedList.
4. 25%- DoublyLinkedList class coded and used for second Scoreboard.
5. 15%- Scoreboard properly populated, with contents and summary printed using DoublyLinkedList.
6. 10% - Meaningful comments and header and proper use of abstraction (Use methods! Do not fill your main with lots of code).