I learned how to implement a double link list that has a previous and a next attribute. I had previously done a link list for the stack and queue project, but this project was a lot harder than before. Since you must place both the previous of the node and the next of the node to another node, it made the code a bit more challenging. I had to watch a YouTube tutorial to get an idea of how a doubly link list works. The removes method of the double link list took a while to implement since I had to keep track of what is null and what is not, making me run into a lot of null pointer exceptions.

Another thing I learned implemented but unfortunately not successfully is the double linked list iterator. I had trouble figuring out when to move the curser of the node so that when the curser makes a jump, it correctly returns the jumped element. I was able to figure out the next to the end and the previous to the start, but I couldn't find out how to make next and previous return the same element when they are called right next to each other. I did it somewhat but failed in certain order of next and pervious calls. Overall, the iteration was the hardest part of the project.

Another hard thing was the sorting, I kept running into null point exception errors because I failed to realize that if the data is the largest in the list, then it will make the currNode null and thus unable to access its attributes. It took me a while to find out how to solve the problem and look through the book and online to see how I could fix the problem.

I believe I needed more assistance with the project, I now realize that I could of done the project a bit earlier to get some help. Since I did a link list in my previous project, I thought it would be very similar to it and would be simple, but I misjudged the difficulty of the project. Also, I failed to realize that I needed a MOSS file but I do not know how to make one for the project.