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**Assignment: Project 3 (Double Linked Lists) –Learning Experience**

**Learning Experience:**

I learned more about using generic classes plus how to use linked lists. I started by implementing BasicDoubleLinkedList class which was implementing the Iterable interface. Provided Javadoc for the implementation was good but it was challenging to implements those modes. I started by creating an inner Node class which I made it generic and in order to have it as double node, I added head and tail.

Implementing the iterator class was also challenging, its methods took a lot of time in order for the test to pass. In most of the methods I had to be careful when inserting or removing nodes, because I had to get the address temporary before removing the node or adding a new node. That was challenging part since we had to keep track of list size as well as keep changing of head and tail.

The SortedDoubleLinkedList was not as much challenging as the first one since it was exending the basic class, however remove method took a long time, the test was not passing and finally I realized that I had to use while loop and many if statements.

At the end, the student test for sortedDoubledLInkedList was not passing even I used similar test but only with a different object (TV instead of Car), so I had to add String and Double Test just for the purpose of tests for the TV to work (I wasn’t able to find the reason).

Overall this was a good experience of using LinkedList but I fee that I need to read and practice more to be confident on it.