While I was doing this assignment, I learned a lot about doing an implementation about something. Before, I would never have a problem jumping into an assignment without thinking about it and figuring things out as I went. However, for this project, I really had to think about how things would work and writing things down really helped. I learned that having a good plan really helps during implementation. While I didn’t do pseudocode, I did draw the operations and things happening. It helped me visualize the entire concept of a DoubleLinkedList and helped me visualize the algorithms needed to remove and add.

I had some issues with the iterators at first. I realized that once you got to null, you can’t call previous on it, as you get a null pointer exception. I ended up making the lists circular, but artificially limiting the list by using an index in the iterator. That way, I could call previous on any item in the list, and I wouldn’t get a null pointer exception. I then had some issues with addToFront and addToEnd, as I had forgotten to make the list circular there. In that case, I just had to make the tails next and heads previous equal to the other, thus updating the circular list.

Overall, I learned that it is important to plan out by writing things down, and when you make a change to the overall class, that you need to look at every method and make sure that you are changing everything else that uses what you changed. That makes it so that you don’t have hard time tracking issues since you forgot something simple.