Zain Hassan, Thompson, Conner Bennet, Zaw Htun, Aidan Hert

Team Project 2 Report

**Thompson Ngo**

For this project, I worked on the indexOf(E value) method from the AbstractList.java file. This method simply just returned the position of the first occurrence of a given value and returned -1 if the value couldn’t be found. I decided that I would need an Iterator object so that I could retrieve elements one by one. By doing this, the iterator would look at each value one by one until it finds the given value. I also decided that an int object (named count) representing the position of the value would be necessary, as I could increase the count by one each time the iterator looked at a value that wasn’t equal to the given value. That way, by the time it reaches the given value, it will return the count which is essentially the position of the value, as the count went up by one as the iterator looked through the list. I did all of this by putting everything (except for the initialization of the two objects and the return statement for when the value cannot be found) inside of a while loop. This while loop allowed the iterator to keep going through the list until it reached the given value and when it did, it returned a count. When the value the iterator is looking at isn’t equal to the given value, it just simply increased the count by one. Overall, I found this project to be very difficult and I’m just glad that my team managed to pull through and work together to finish this project. Hopefully, we can do as well on this project as we did on the first one.

**Conner Bennet**

My contribution to this project was the contains method this was a rather straightforward method to add as it was quite similar to the method contained in both the LinkList and ArrayList class. It takes a generic value E and returns a Boolean true/false depending on if the given value is empty or not. Overall, I saw this project as team effort with every contributing ideas and guidance, but I personally found the project quite confusing as it is not something that we have extensively covered in class or worked with.

**Zain Hassan**

I worked on the public Boolean isEmpty which returns true if the list is empty and false otherwise. Then I also worked on the public string toString that creates a comma separated, bracketed version of the list. As Conner mentioned this project was quite confusing but I think because of our team effort and hard work we were successfully able to accomplish the goals on time.

**Zaw Htun**

My part of the project was to create abstract method to both class Array List and Linked List and then I also worked on the Public void add on the abstract list that appends the given value to the end of the list.

**Aidan Hert**

The part of the project I did was the addAll method in the AbstractList class. This method takes in a list. It then uses a for each loop to add all the items from one list to the other. It uses the add method to do this. I also attempted to make a generic method for size and get. However, I was unable to figure out how to do this. With the size method, it would either throw a StackOverflowError, or it would get stuck in an infinite loop. With the get method, the program would also get stuck when it ran. Overall, I found this to be a very hard project.