

Homework 2

For the insert function, created a new object “temp”, with size 1 greater than data. Then copied in the elements from temp data to temp and put in the inputted element at the inputted index. Then continued copying in temp from data. Once completed, put temp into data and increased the size.

For the delete function, created a new object ‘temp’, with size 1 lesser than data. In the for loop, used 2 variables i & k, with i less than size. If i is equal to index, we don’t do anything, if it’s not we copy data into temp with k incremented. Then put temp into data and decrease the size.

Output:

```
Current Sequence: 1 2 3 4 5
Please enter 1 to insert, 2 to delete, or 3 to quit
1
Please enter the value to be inserted
8
Please enter the index to be inserted at
3

Current Sequence: 1 2 3 8 4 5
Please enter 1 to insert, 2 to delete, or 3 to quit
1
Please enter the value to be inserted
4
Please enter the index to be inserted at
0

Current Sequence: 4 1 2 3 8 4 5
Please enter 1 to insert, 2 to delete, or 3 to quit
2
Please enter the index to be deleted at
0

Current Sequence: 1 2 3 8 4 5
Please enter 1 to insert, 2 to delete, or 3 to quit
4
Invalid Choice
Please enter 1 to insert, 2 to delete, or 3 to quit
3
Goodbye
```