# Arrays and ArrayLists Lab

**20 Points**

1. Create a class called CustomerLister1 with a main method that instantiates an array of String objects called customerName. The array should have room for seven String objects. Assign each of the following Strings to sequential locations in the array beginning at array index 0.

Chris

Lois

Meg

Peter

Stewie

Write an enhanced for loop to display the array of names. What is displayed for the last two array elements? Why is it that value?

Add the Strings “Meg” and “Brian” into index 3, and 4, respectively, so that the array contains the following elements:

Chris

Lois

Meg

Meg

Brian

Peter

Stewie

Write an enhanced for loop to display the array of names.

Write a second, traditional for loop that checks each element for the String “Meg”, if found in the array, remove it, shift the remaining elements, and display the array of names. Are both instances of “Meg” removed correctly from the array?

1. Modify the code you wrote part #1 for a second class called CustomerLister2 so that you are using an ArrayList instead of an array to store the names as String objects.

**Add** the five names as done previously, and then **add** “Brian” so that it is the 4th name in the ArrayList. Now **add** “Meg” into the third position in the list (there will be two identical strings “Meg” in the list).

Use an enhanced for loop for displaying all the String objects, as in part #1 and use a traditional for loop to remove “Meg” and show the revised ArrayList. Once again, was “Meg” removed completely from the list?

1. Upload your files CustomerLister1.java and CustomerLister2.java to the assignment link in Blackboard.