**Bubble Sort Project Name: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_**

Create 2 files, one for an ArrayPlus object (which creates an ArrayList) and a Main. You should have methods: display and randomize, which randomizes your ArrayList to contain a specified number of values for a given range. (ie: 20 values from 1-100 using parameters 20,1,100) Then add in a method which will sort an ArrayList of Integer values from least to greatest using the bubble sort algorithm. The bubble sort should compare pairs of adjacent values and move the greater value to the right then continue through the array until it reaches the end, positioning the largest value farthest to the right in the array (its terminal position). Then it should repeat this process, decreasing the final position so that once a value is in its final position it does not need to be checked any more.

You will need a method bubbleSort() and may need some additional methods as well.

Have the main file print out the initial array and the array after it is sorted.

*NOTE: The bubble sort algorithm should only ever compare adjacent values.*

[*Bubble Sort example video*](https://youtu.be/HHVxkJJfwxY)