### O BJP5 Self-Check 10.15: ArrayListMystery1

Consider the following method:

```
public static void mystery1(ArrayList<Integer> list) {
    for (int i = list.size() - 1; i > 0; i--) {
        if (list.get(i) < list.get(i - 1)) {
            int element = list.get(i);
            list.remove(i);
            list.add(0, element);
        }
    }
    System.out.println(list);
}</pre>
```

Write the output produced by the method when passed each of the following ArrayLists:

```
[2, 6, 1, 8]
[30, 20, 10, 60, 50, 40]
[-4, 16, 9, 1, 64, 25, 36, 4, 49]
```

```
1,2,6,8
10,30,40,20,60,50
-4,1,25,4,16,9,64,36,49
```

Submit

#### You passed 3 of 3 tests.

### O BJP5 Self-Check 10.17: ArrayListMystery3

Consider the following method:

```
public static void mystery3(ArrayList<Integer> list) {
   for (int i = list.size() - 2; i > 0; i--) {
      int a = list.get(i);
      int b = list.get(i + 1);
      list.set(i, a + b);
   }
   System.out.println(list);
}
```

Write the output produced by the method when passed each of the following Arr

```
[72, 20]
[1, 2, 3, 4, 5, 6]
[10, 20, 30, 40]
```

```
[72, 20]
[1, 20, 18, 15, 11, 6]
[10, 90, 70, 40]
```

Submit

#### You passed 3 of 3 tests.

### O BJP5 Exercise 10.7: removeDuplicates

Language/Type: 

Java ArrayList Collections

Author: 

Marty Stepp (on 2019/09/19)

Write a method removeDuplicates that takes as a parameter a sorted ArrayList of Str from the list. For example, suppose that a variable called list contains the following values {"be", "be", "is", "not", "or", "question", "that", "the", "to", "to' removeDuplicates(list); the list should store the following values: {"be", "is", "not", "or", "question", "that", "the", "to"}

Because the values will be sorted, all of the duplicates will be grouped together.

# Type your solution here:

```
public void removeDuplicates(ArrayList<String> given){
    for (int i = 0; i < given.size() - 1; i++) {
        if (given.get(i) == given.get(i + 1)) {
            given.remove(i + 1);
            i --;
        }
}
</pre>
```

This is a **method problem**. Write a Java method as described. Do not write a complete program or class; just the me

### 

## O BJP5 Self-Check 10.16: ArrayListMystery2

Write the output produced by the method when passed each of the following ArrayLists:

#### You passed 3 of 3 tests.

### ○ BJP5 Self-Check 10.18: ArrayListMystery4

Language/Type: 

Java ArrayList Collections mystery

Write the output produced by the method when passed each of the following ArrayLists:

```
[10, 20, 30] [31, 21, 11] [8, 2, 9, 7, 4] [5, 8, 10, 3, 9] [-1, 3, 28, 17, 9, 33] [34, 10, 18, 29, 4, 0]
```

## You passed 3 of 3 tests.

### O BJP5 Exercise 10.14: removeShorterStrings

Language/Type: 

Java ArrayList Collections

Author: Marty Stepp (on 2019/09/19)

Write a method removeShorterStrings that takes an ArrayList of Strings as a parameter and successive pair of values the shorter string in the pair. For example, suppose that an ArrayList call values: {"four", "score", "and", "seven", "years", "ago"} In the first pair, "four" and "four". In the second pair, "and" and "seven", the shorter string is "and". In the third pair, "years" is "ago". Therefore, the call: removeShorterStrings(list); should remove these shorter strings "score", "seven", "years". If there is a tie (both strings have the same length), your method sh the pair. If there is an odd number of strings in the list, the final value should be kept in the list.

```
Type your solution here:
```

```
public void removeShorterStrings(ArrayList<String> given){
    for (int i = 0; i < given.size()-1; i++){
        if (given.get(i).length() <= given.get(i+1).length())
            given.remove(i);
    else
        given.remove(i+1);
}</pre>
```

This is a method problem. Write a Java method as described. Do not write a complete program or class; just the method(s) about

You passed 5 of 5 tests.