

Do the following problems in the same class. Use the main method to call the methods. The arraylist needs to be passed into the methods. Make sure you test your methods. Also print the completed arraylist before and after running your program. All arraylists must be at least 6 elements long. Make sure you test the program.

Program 1: Create a method that will find and remove duplicate numbers in an Integer array.

Program 2: Create a method that will find and remove duplicate numbers in an Integer ArrayList.

Program 3: Create a method that is given a string with 5 to 10 names and two empty arrays, will add the first name to an index of the first array and add the second name to an same index of the second array.

Each name will only contain a single first name, a space, and a single last name. If a first or last name contains two names make sure they are hyphenated. For example Sue Ann would be Sue-Ann or Diaz Morales would be Diaz-Morales.

The arrays passed in must each be able to hold all of the names assigned to them.

Program 4: Do the same as program 3 but use ArrayLists instead of arrays.