**Test - ArrayLists**

Name \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Given

public class test

{private ArrayList<Integer> nums;

1. Write a function that will fill the ArrayList with 50 random numbers between 1 and 100.

public void fill()

1. Write a function that will return the location of the biggest number in an ArrayList of Integer objects.   
     
   public int locationOfBiggest()   
   // precondition - List is not empty
2. Write a function that will delete the biggest number in an ArrayList of Integer objects. You must call the function written in number 2 to get full credit.   
     
   public void deleteBiggest()   
   // precondition - List is not empty
3. There is an arrayList of Integers that is in ascending sorted order (ex 12 34 56 78)

Write a method that will insert a number in to the correct place in the list

public void insert(int n)

1. Write a function that will return the average of all the odd numbers that are in an ArrayList of Integer  
     
   public double getOddAverage(ArrayList<Integer> ar)   
   // precondition : Arraylist is not empty
2. Write a function that will delete all numbers in the arraylist that are bigger than the number sent up to it.

public void deleteAll(int n)

1. Write a method that will delete all the odd numbers from an ArrayList

public void deleteAllOdd()