

ArrayListTest.java

```
/*
Class: ArrayListTest
Author: Jacob Rust
Date: October 20, 2018

Submitting Elements reversed in an array and Greatest and Lowest in
the array

*/

import java.util.ArrayList;
import java.util.Arrays;

public class ArrayListTest
{
    public static void main(String[] args)
    {
        int numElements = 10;
        ArrayList<Integer> data = new ArrayList<Integer>();

        // Put random values from 1-100 in the array
        for(int i=0; i<numElements; i++)
        {
            data.add((int)(Math.random()*100+1));
        }

        // Display the unsorted ArrayList
        System.out.println("Unsorted:");
        for(int i=0; i<numElements; i++)
        {
            System.out.print(data.get(i)+" ");
        }
        System.out.println();

        Integer t9 = data.remove(9);
        Integer t8 = data.remove(8);
        Integer t7 = data.remove(7);
    }
}
```

ArrayListTest.java

```
Integer t6 = data.remove(6);
Integer t5 = data.remove(5);
Integer t4 = data.remove(4);
Integer t3 = data.remove(3);
Integer t2 = data.remove(2);
Integer t1 = data.remove(1);

data.add(0,t9);
data.add(1,t8);
data.add(2,t7);
data.add(3,t6);
data.add(4,t5);
data.add(5,t4);
data.add(6,t3);
data.add(7,t2);
data.add(8,t1);
// Display the now reversed ArrayList
System.out.println("With elements reversed:");
for(int i=0; i<numElements; i++)
{
    System.out.print(data.get(i)+" ");
}
System.out.println();

int max = data.get(0);
for(int a=0; a<numElements; a++)
{
    if(data.get(a) > max)
    {
        max = data.get(a);
    }
}

System.out.println("Greatest Integer: " + ""+max+"");

int min = data.get(0);
for(int a=0; a<numElements; a++)
{
    if(data.get(a) < min)
```

ArrayListTest.java

```
        {
            min = data.get(a);
        }

    }

    System.out.println("Smallest Integer: " + ""+min+"");

    /*
    * Put code here to sort the ArrayList into least to greatest
    order
    */

    /* Display the now sorted ArrayList
    System.out.println("Sorted least to greatest:");
    for(int i=0; i<numElements; i++)
    {
        System.out.print(data.get(i)+" ");
    }
    System.out.println();*/

    }
}
```