Divyanshu Sharma 199303003 Sec A CCE

OOPS ASSIGNMENT 5

```
import java.util.ArrayList;
import java.util.Comparator;
import java.util.List;
import java.util.stream.Collectors;
import java.util.Scanner;
class Main {
   ArrayList<Integer> arrList;
   Main(ArrayList<Integer> arrList) {
        this.arrList = arrList;
    }
   List<Integer> distinct() {
     return arrList.stream().distinct().collect(Collectors.toList());
   }
   public static void main(String args[]) {
      Scanner sc = new Scanner(System.in);
     ArrayList<Integer> arrayList = new ArrayList<Integer>();
     int temp;
     while (sc.hasNext()) {
       temp = sc.nextInt();
        arrayList.add(temp);
      }
     Main m = new Main(arrayList);
     List<Integer> li = m.distinct();
     String str = li.stream()
                    .map(i -> i.toString())
                    .collect(Collectors.joining(" "));
     System.out.println(str);
    }
}
```

```
Submit Before: 1/29/2021, 928 00 AM

Q16

Write a program to remove all duplicate elements from ArrayList and keeping unique elements. input: 1 2 3 4 2 2 11 2 1

output: 1 2 3 4 2 2 11 1

Output: 1 2 3 4 2 2 11

Was a remove all duplicate elements from ArrayList and keeping unique elements. input: 1 2 3 4 2 2 11

Was a remove all duplicate elements from ArrayList and keeping unique elements. input: 1 2 3 4 2 2 11 1

Was a remove all duplicate elements from ArrayList and keeping unique elements. input: 1 2 3 4 2 2 11 1

Was a remove a remove all duplicate elements from ArrayList and keeping unique elements. input: 1 2 3 4 2 2 11 2 1

Output: 1 2 3 4 2 2 11 2 1

Output: 1 2 3 4 2 2 11 2 1

Output: 1 2 3 4 2 2 11 2 1

Output: 1 2 3 4 2 2 11 2 1

Output: 1 2 3 4 2 2 11 2 1

Output: 1 2 3 4 2 2 11 2 1

Output: 1 2 3 4 2 2 11 2 1

Output: 1 2 3 4 2 2 11 2 1

Output: 1 2 3 4 2 2 11 2 1

Output: 1 2 3 4 2 2 11 2 1

Output: 1 2 3 4 2 2 11 2 1

Output: 1 2 3 4 2 2 11 2 1

Output: 1 2 3 4 2 2 11 2 1

Output: 1 2 3 4 2 2 11 2 1

Output: 1 2 3 4 2 2 11 2 1

Output: 1 2 3 4 2 2 11 2 1

Output: 1 2 3 4 2 2 11 2 1

Output: 1 2 3 4 2 2 11 2 1

Output: 1 2 3 4 2 2 11 2 1

Output: 1 2 3 4 2 2 11 2 1

Output: 1 2 3 4 2 2 11 2 1

Output: 1 2 3 4 2 2 11 2 1

Output: 1 2 3 4 2 2 11 2 1

Output: 1 2 3 4 2 2 11 2 1

Output: 1 2 3 4 2 2 11 2 1

Output: 1 2 3 4 2 2 11 2 1

Output: 1 2 3 4 2 2 11 2 1

Output: 1 2 3 4 2 2 11 2 1

Output: 1 2 3 4 2 2 11 2 1

Output: 1 2 3 4 2 2 11 2 1

Output: 1 2 3 4 2 2 11 2 1

Output: 1 2 3 4 2 2 11 2 1

Output: 1 2 3 4 2 2 11 2 1

Output: 1 2 3 4 2 2 11 2 1

Output: 1 2 3 4 2 2 11 2 1

Output: 1 2 3 4 2 2 11 2 1

Output: 1 2 3 4 2 2 11 2 1

Output: 1 2 3 4 2 2 11 2 1

Output: 1 2 3 4 2 2 11 2 1

Output: 1 2 3 4 2 2 11 2 1

Output: 1 2 3 4 2 2 11 2 1

Output: 1 2 3 4 2 2 11 2 1

Output: 1 2 3 4 2 2 11 2 1

Output: 1 2 3 4 2 2 11 2 1

Output: 1 2 3 4 2 2 11 2 1

Output: 1 2 3 4 2 2 11 2 1

Output: 1 2 3 4 2 2 11 2 1

Output: 1 2 3 4 2 2 11 2 1

Output: 1 2 3 4 2 2 11 2 1

Output: 1 2 3 4 2 2 11 2 1

Outpu
```

```
import java.util.ArrayList;
import java.util.Comparator;
import java.util.List;
import java.util.stream.Collectors;
import java.util.Scanner;
class Main {
   ArrayList<Integer> arrList;
   Main(ArrayList<Integer> arrList) {
        this.arrList = arrList;
   }
   void sort() {
     arrList.sort(Comparator.naturalOrder());
    }
   public static void main(String args[]) {
     Scanner sc = new Scanner(System.in);
     ArrayList<Integer> arrayList = new ArrayList<Integer>();
     int temp;
     while (sc.hasNext()) {
       temp = sc.nextInt();
        arrayList.add(temp);
     Main m = new Main(arrayList);
     m.sort();
     String str = m.arrList.stream()
                        .map(i -> i.toString())
```

```
.collect(Collectors.joining(" "));
System.out.println(str);
}

Back to Cleasroom

Submit Before: 1/29/2021, 9.39.00 AM

Submitted version (1 passed of 1)

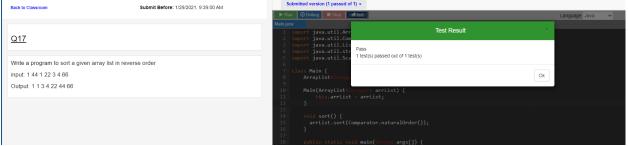
Reput Debug Sup Admits Submitted version (1 passed of 1)

Reput Debug Sup Admits Submitted version (1 passed of 1)

Reput Debug Sup Admits Submitted version (1 passed of 1)

Reput Debug Sup Admits Submitted version (1 passed of 1)

Reput Debug Sup Admits Submitted version (1 passed of 1)
```



```
import java.util.*;
class Main {
   public static void main(String args[]) {
        LinkedList<Integer> 11 = new LinkedList<Integer>();
        11.add(15);
        ll.add(10);
        ll.add(11);
        11.add(18);
        11.add(16);
        Scanner sc = new Scanner(System.in);
        System.out.println(11);
        System.out.println("Enter index and value:");
        int i = sc.nextInt();
        int x = sc.nextInt();
        11.add(i, x);
        System.out.println(11);
   }
}
```

```
[15, 10, 11, 18, 16]
Enter index and value:
2 4
[15, 10, 4, 11, 18, 16]
```

Q19

```
import java.util.LinkedList;

class Main {
    public static void main(String args[]) {
        LinkedList<Integer> 111 = new LinkedList<Integer>();
        111.add(1);
        111.add(6);
        111.add(4);
        System.out.println("LinkedList1 = " + 111);
        LinkedList<Integer> 112 = new LinkedList<Integer>(111);
        112.removeFirst();
        112.removeLast();
        System.out.println("LinkedList1 = " + 112);
    }
}
```

```
LinkedList1 = [1, 6, 4]
LinkedList1 = [6]
```

```
import java.util.Arrays;

class Main {
    public static void main(String args[]) {
        int arr[] = {32, 42, 92, 16, 2, 15, 119};
        System.out.println(Arrays.toString(arr));
        bubbleSort(arr);
        System.out.println(Arrays.toString(arr));
    }
}
```

```
static void bubbleSort(int arr[])
{
    int n = arr.length;
    for (int i = 0; i < n-1; i++)
        for (int j = 0; j < n-i-1; j++)
        if (arr[j] > arr[j+1])
        {
        int temp = arr[j];
        arr[j] = arr[j+1];
        arr[j+1] = temp;
    }
}
```

```
(32, 42, 92, 16, 2, 15, 119)
[2, 15, 16, 32, 42, 92, 119]
```