9m. and (10) 922. add (0,7) bixe 5-000

 \leq

Collections 608 (int ;= n-); 1>=0; 1++) gs

```
public static void reverse(ArrayList<Integer> list){
   int start=0, end = list.size()-1;
   // int temp = list[start];
   // list[start] = list[end];
   // list[end] = temp;
   while(start<end){</pre>
       int temp = list.get(start);
       list.set(start,list.get(end));
       list.set(end,temp);
        start++;
        end--;
    // Tradtional For loop
   for(int i=0;i<list.size();i++){</pre>
        System.out.print(list.get(i)+" ");
                                                                                                14/3/2
   System.out.println();
   for(int x:list){
       System.out.print(x+" ");
```

Start = 8; 1 end= 14 3 5 M3 241

(1) 2 3 3 4 7 8

Arraxiist

1 2 3 4 7 8

Hashset - Jemore the duplicates (1)1/1/2/2/3 34/4) 1234)

ArrayList Printing

```
Language: Java 7
                                                                                                                     P Open in editor
 1 import java.io.*;
2 import java.util.*;
3 import java.text.*;
4 import java.math.*;
5 import java.util.regex.*;
7 public class Solution {
 8
       public static void main(String[] args) {
9
           /* Enter your code here. Read input from STDIN. Print output to STDOUT. Your class should be named Solution. */
10
11
           Scanner sc = new Scanner(System.in);
           int n = sc.nextInt();
12
           ArrayList<Integer> arr = new ArrayList<>();
13
           for(int i=0;i<n;i++){
14
15
               arr.add(sc.nextInt());
16
17
          // Tradtional For loop
           for(int i=0;i<arr.size();i++){</pre>
18
               System.out.print(arr.get(i)+" ");
19
20
21
           System.out.println();
           // For Each Loop
22
23
           for(int x:arr){
24
               System.out.print(x+" ");
25
26
27 }
```

ArrayList reverse printing

```
3 import java.text.*;
4 import java.math.*;
5 import java.util.regex.*;
 6
7 public class Solution {
 8
9
      public static void main(String[] args) {
           /* Enter your code here. Read input from STDIN. Print output to STDOUT. Your class should be named Solution. */
11
           Scanner sc = new Scanner(System.in);
12
           int n = sc.nextInt();
13
           ArrayList<Integer> list = new ArrayList<>();
           for(int i=0;i<n;i++){
14
15
               list.add(sc.nextInt());
16
17
           reverse(list);
18
      public static void reverse(ArrayList<Integer> list){
19
20
           int start=0, end = list.size()-1;
          // int temp = list[start];
21
22
          // list[start] = list[end];
23
          // list[end] = temp;
24
           while(start<end){
25
               int temp = list.get(start);
26
               list.set(start,list.get(end));
27
               list.set(end,temp);
28
               start++;
29
               end--;
30
31
           // Tradtional For loop
32
           for(int i=0;i<list.size();i++){</pre>
33
               System.out.print(list.get(i)+" ");
34
35
           System.out.println();
36
           // For Each Loop
37
           for(int x:list){
38
               System.out.print(x+" ");
39
           }
40
41
42 }
```

Merge two sorted arrays 7

```
/* Enter your code here. Read input from SIDIN, Print output to SIDOUI. Your class should be named Solution, */
11
           Scanner sc = new Scanner(System.in);
12
           int n = sc.nextInt();
13
           int[] arr1 = new int[n];
14
           for(int i=0;i<n;i++){
15
               arr1[i]=sc.nextInt();
16
17
           int m = sc.nextInt();
18
           ArrayList<Integer> list = new ArrayList<>();
19
           for(int i=0;i<m;i++){
20
               list.add(sc.nextInt());
21
           merge(arr1,list);
23
24
      public static void merge(int[] arr1, ArrayList<Integer> list){
25
           int n = arr1.length;
26
           int m = list.size();
27
           ArrayList<Integer> ans = new ArrayList<>();
28
           int ptr1=0;
29
           int ptr2=0;
30
           while(ptr1<n && ptr2<m){
               if(arr1[ptr1]<=list.get(ptr2)){</pre>
31
32
                   ans.add(arr1[ptr1]);
33
                   ptr1++;
34
               }else{
35
                   ans.add(list.get(ptr2));
36
                   ptr2++;
37
38
39
           while(ptr1<n){
40
                ans.add(arr1[ptr1]);
41
                   ptr1++;
42
43
           while(ptr2<m){
44
               ans.add(list.get(ptr2));
45
                   ptr2++;
46
47
           HashSet<Integer> hs = new HashSet<>();
           for(int i=0;i<ans.size();i++){</pre>
48
49
               hs.add(ans.get(i));
50
51
          for(int x: hs){
              System.out.print(x+" ");
52
53
```