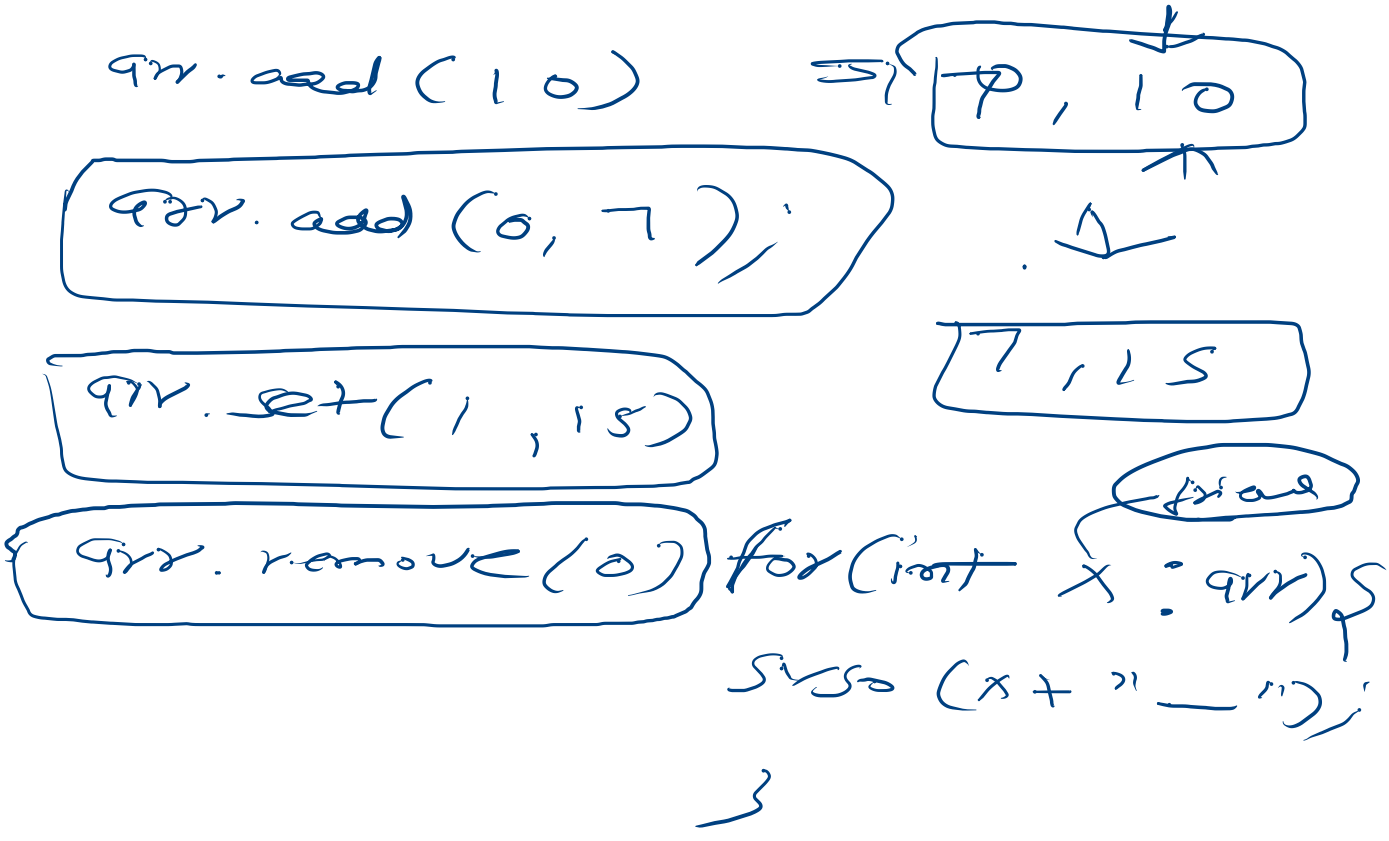

qv.add(10)
qv.add(0, 7);
qv.set(1, 15)
qv.remove(0)
for(int x : qv)
System.out.println(x + " ");
0, 10
7, 15

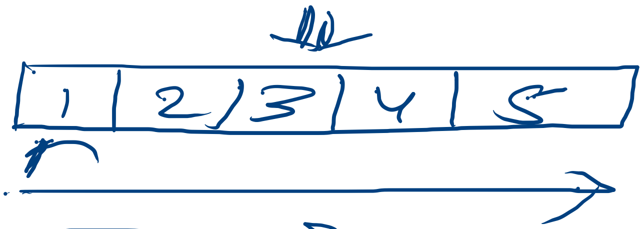
s

bike

Sports_bike

Sports

sports



for (int arr : arr) {

Syso(arr);

}

Collections

5

1 2 3 4 5

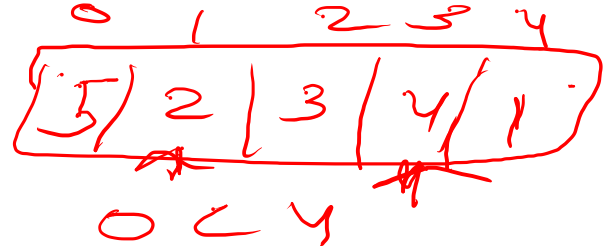
```
for(int i=n-1; i>=0; i++){
```

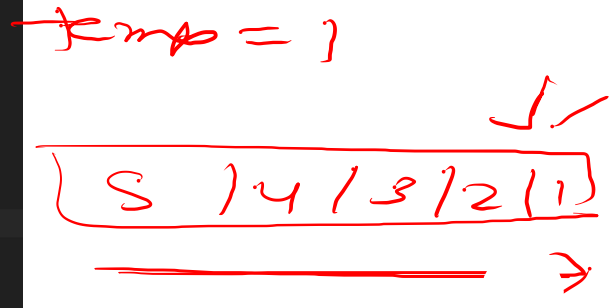
5

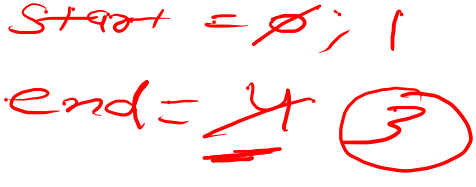
for (———————) {

3

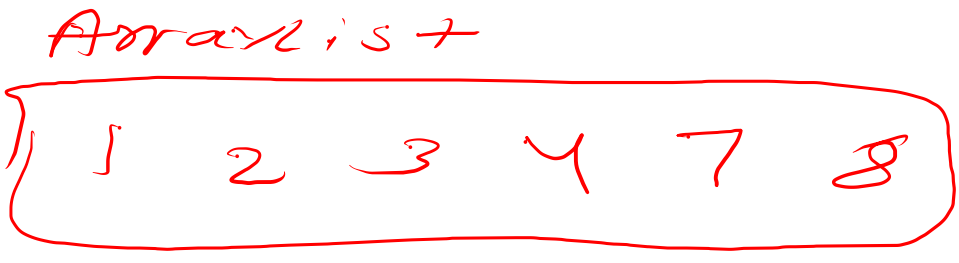
```java
public static void reverse(ArrayList<Integer> list){
    int start=0, end = list.size()-1;
    // int temp = list[start];
    // list[start] = list[end];
    // list[end] = temp;
    while(start<end){
        int temp = list.get(start);
        list.set(start,list.get(end));
        list.set(end,temp);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

}
```





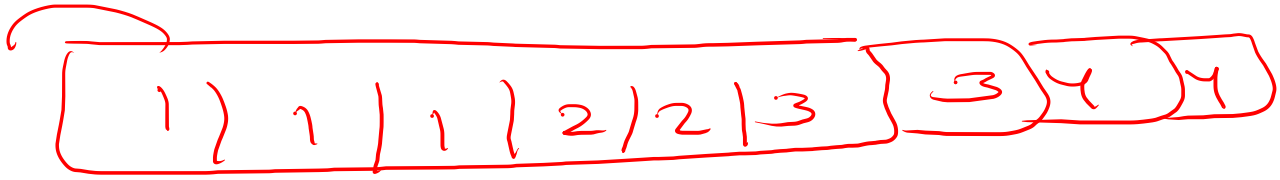


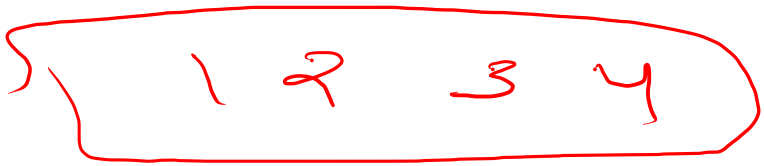
```
4
1 3 3 7
4
2 4 4 8
```



HashSet

+ remove the duplicates





ArrayList Printing

Language: Java 7

Open in editor

```java
import java.io.*;
import java.util.*;
import java.text.*;
import java.math.*;
import java.util.regex.*;

public class Solution {

    public static void main(String[] args) {
        /* Enter your code here. Read input from STDIN. Print output to STDOUT. Your class should be named Solution. */
        Scanner sc = new Scanner(System.in);
        int n = sc.nextInt();
        ArrayList<Integer> arr = new ArrayList<>();
        for(int i=0;i<n;i++){
            arr.add(sc.nextInt());
        }
       // Tradtional For loop
        for(int i=0;i<arr.size();i++){
            System.out.print(arr.get(i)+" ");
        }
        System.out.println();
        // For Each Loop
        for(int x:arr){
            System.out.print(x+" ");
        }
    }
}
```

ArrayList reverse printing

```java
import java.text.*;
import java.math.*;
import java.util.regex.*;

public class Solution {

    public static void main(String[] args) {
        /* Enter your code here. Read input from STDIN. Print output to STDOUT. Your class should be named Solution. */
        Scanner sc = new Scanner(System.in);
        int n = sc.nextInt();
        ArrayList<Integer> list = new ArrayList<>();
        for(int i=0;i<n;i++){
            list.add(sc.nextInt());
        }
        reverse(list);
    }
    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){
            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++){
            System.out.print(list.get(i)+" ");
        }
        System.out.println();
        // For Each Loop
        for(int x:list){
            System.out.print(x+" ");
        }

    }
}
```

Merge two sorted arrays 7

```
        /* Enter your code here. Read input from STDIN. Print output to STDOUT. Your class should be named Solution. */
        Scanner sc = new Scanner(System.in);
        int n = sc.nextInt();
        int[] arr1 = new int[n];
        for(int i=0;i<n;i++){
            arr1[i]=sc.nextInt();
        }
        int m = sc.nextInt();
        ArrayList<Integer> list = new ArrayList<>();
        for(int i=0;i<m;i++){
            list.add(sc.nextInt());
        }
        merge(arr1,list);
    }
    public static void merge(int[] arr1, ArrayList<Integer> list){
        int n = arr1.length;
        int m = list.size();
        ArrayList<Integer> ans = new ArrayList<>();
        int ptr1=0;
        int ptr2=0;
        while(ptr1<n && ptr2<m){
            if(arr1[ptr1]<=list.get(ptr2)){
                ans.add(arr1[ptr1]);
                ptr1++;
            }else{
                ans.add(list.get(ptr2));
                ptr2++;
            }
        }
        while(ptr1<n){
             ans.add(arr1[ptr1]);
                ptr1++;
        }
        while(ptr2<m){
            ans.add(list.get(ptr2));
                ptr2++;
        }
        HashSet<Integer> hs = new HashSet<>();
        for(int i=0;i<ans.size();i++){
            hs.add(ans.get(i));
        }
       for(int x: hs){
           System.out.print(x+" ");
       }
```