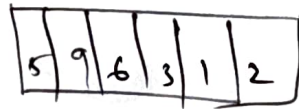
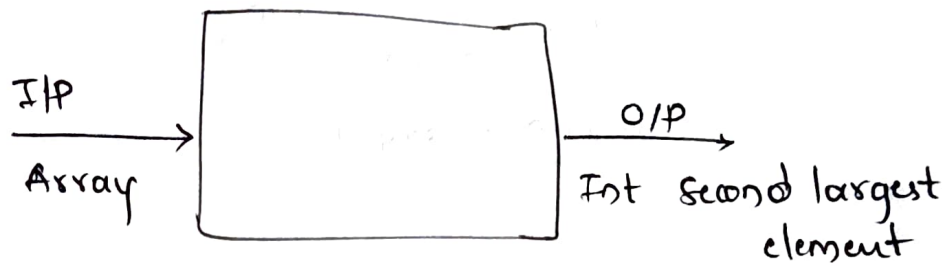


JAVA HANDS ON PRACTICE

Q> Second largest element In An Array.



1> Method 1:- Sort the Array and return second largest element

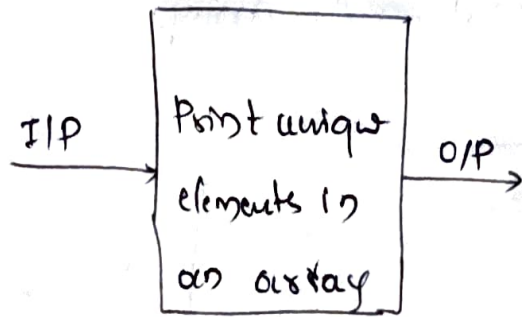
2> Method 2:- Max store values

Second Max according
return secondMax

C: > java programs > J SecondLargest.java > ...

```
1 public class SecondLargest {
    Run main | Debug main | Run | Debug
2     public static void main(String[] args) {
3         int[] arr = {12, 35, 1, 10, 34, 1};
4
5         if (arr.length < 2) {
6             System.out.println(x: "Array must have at least two elements.");
7             return;
8         }
9
10        int first = Integer.MIN_VALUE;
11        int second = Integer.MIN_VALUE;
12
13        for (int num : arr) {
14            if (num > first) {
15                second = first; // update second
16                first = num;    // update first
17            } else if (num > second && num != first) {
18                second = num;   // update second only
19            }
20        }
21
22        if (second == Integer.MIN_VALUE) {
23            System.out.println(x: "No second largest element (all elements are same).");
24        } else {
25            System.out.println("The second largest element is: " + second);
26        }
27    }
28 }
```

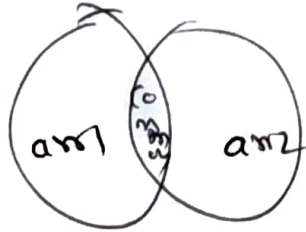
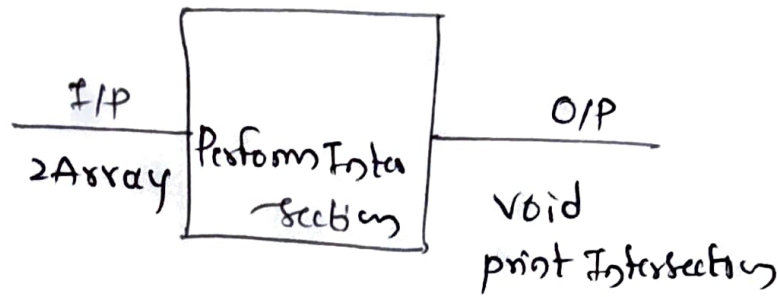
Q) function to print unique element In An Integer Array.



C: > java programs > J UniqueElements.java > ...

```
1 public class UniqueElements {  
    Run main | Debug main | Run | Debug  
2     public static void main(String[] args) {  
3         int[] arr = {1, 2, 2, 3, 4, 4, 5};  
4  
5         System.out.print(s:"Unique elements: ");  
6         for (int i = 0; i < arr.length; i++) {  
7             boolean isUnique = true;  
8  
9             for (int j = 0; j < arr.length; j++) {  
10                if (i != j && arr[i] == arr[j]) {  
11                    isUnique = false;  
12                    break;  
13                }  
14            }  
15  
16            if (isUnique) {  
17                System.out.print(arr[i] + " ");  
18            }  
19        }  
20    }  
21 }  
22
```

Q3 Print Common elements In the two Array Intersection



Taking Intersection Helps to find value

C: > java programs > J ArrayIntersection.java > ...

```
1 public class ArrayIntersection {
    Run main | Debug main | Run | Debug
2     public static void main(String[] args) {
3         int[] arr1 = {1, 2, 3, 4, 5};
4         int[] arr2 = {3, 4, 5, 6, 7};
5
6         System.out.print(s:"Common elements: ");
7         for (int i = 0; i < arr1.length; i++) {
8             for (int j = 0; j < arr2.length; j++) {
9                 if (arr1[i] == arr2[j]) {
10                    System.out.print(arr1[i] + " ");
11                    break; // prevent duplicate printing
12                }
13            }
14        }
15    }
16 }
17
```