JAVA ARRAY INTERVIEW QUESTIONS (MOST ASKED)

1. Combine Two Array

- **♦** *Input:* {1, 2, 3}, {4, 5, 6}
- **♦** *Output:* [1, 2, 3, 4, 5, 6]

```
package Array;
import java.util.Arrays;
public class CombinedOfTwoArrays {
    Run|Debug|Run main|Debug main
    public static void main(String[] args) {
        int[] arr1= {1, 2, 3};
        int[] arr2= {4, 5, 6};
        combinedArrays(arr1, arr2);
    }
    public static void combinedArrays(int[] arr1, int[] arr2) {
        int length =arr1.length+arr2.length;
        int[] newArr= new int[length];
        for(int i=0; i<arr1.length; i++) {
            newArr[i]=arr1[i];
        }
        for(int i=0; i<arr1.length; i++) {
            newArr[arr1.length+i]=arr2[i];
        }
        System.out.println("New Combined array is: "+Arrays.toString(newArr));
}</pre>
```

2. Find Min and Max in Array

♦ *Input:* {3, 6, 9, 5, 20, 43}

Output: Min: 3, Max: 43

```
package Array;
public class FindMinAndMaxInGivenArray {
    Run | Debug | Run main | Debug main |
    public static void main(String[] args) {
        int arr[] = {3, 6, 9, 5, 20, 43};
        minAndMax(arr);
    }
    public static void minAndMax(int[] arr) {
        int min=Integer.MAX_VALUE;
        int max=Integer.MIN_VALUE;
        int in=Integer.MIN_VALUE;
        for(int i=0; i<arr.length; i++) {
            if(arr[i]<min) {
                min=arr[i];
            }
            if(arr[i]>max) {
                 max=arr[i];
            }
        }
        System.out.println("Minimum number in the given array is: "+min);
        System.out.println("Maximum number in the given array is: "+max);
    }
}
```

3. Find Pair with Target Sum

♦ Input: {1, 2, 3, 4, 5}, Target = 5

♦ Output: 3+2, 4+1

4. Frequency of Each Element

- ♦ *Input:* {1, 2, 2, 3, 1, 4, 5, 1}
- \bigcirc Output: 1 \rightarrow 3 times, etc

5. Kth Largest Element

♦ Input: {2, 5, 7, 8, 9, 6}, K = 3

Output: 7

```
package Array;
public class KthLargestDigit {
    Run | Debug | Run main | Debug main
    public static void main(String[] args) {
         int arr[]= {2, 5, 7, 8, 9, 6};
        int k=3;
         LargestDigit(arr, k);
    public static void LargestDigit(int[] arr, int k) {
         int result=0;
         for(int i=0; i<arr.length; i++) {</pre>
             for(int j=i+1; j<arr.length; j++) {</pre>
                 if(arr[i]>arr[j]) {
                     int temp=arr[j];
                     arr[j]=arr[i];
                     arr[i]=temp;
         result=arr[arr.length-k];
         System.out.println("Kth Largest digit is: "+result);
```

6. Remove Duplicates

♦ Input: {4, 2, 3, 2, 4, 1, 5, 3, 5}

Output: 12345

7. Find Second Largest Element

♦ Input: {4, 19, 3, 4, 16}

Output: 16

```
package Array;
public class secondLargestElement {
    Run|Debug|Run main|Debug main
    public static void main(String[] args) {
        int input[]= {4, 19, 3, 4, 16};
        System.out.println("Second largest digit is: "+secondLargestDigit(input));
    }
    public static int secondLargestDigit(int[] input) {
        int largest=0;
        int secondLargest=0;
        for(int i=0; i<input.length; i++) {
            if(input[i]>largest) {
                secondLargest=largest;
                largest=input[i];
            }
            else if(input[i]>secondLargest && input[i]<largest) {
                secondLargest=input[i];
            }
        }
        return secondLargest;
}</pre>
```

8. Shift a Value to End

♦ Input: {1, 4, 5, 4, 3, 0, 3, 2, 0, 1}, Value = 1

Output: [4, 5, 4, 3, 0, 3, 2, 0, 1, 1]