

# Rajalakshmi Engineering College

Name: Dharshan UJ

Email: 240701811@rajalakshmi.edu.in

Roll no: 240701811

Phone: 9025494910

Branch: REC

Department: CSE - Section 6

Batch: 2028

Degree: B.E - CSE

Scan to verify results



## 2024\_28\_III\_OOPS Using Java Lab

### 2028\_REC\_OOPS using Java\_Week 3\_Q1

Attempt : 1

Total Mark : 10

Marks Obtained : 10

#### **Section 1 : Coding**

##### **1. Problem Statement**

Rosh is intrigued by numerical patterns. Today, she stumbled upon a puzzle while working with arrays. She wants to compute the sum of the third-largest and second-smallest elements from a list of integers. She seeks your help to implement a program that solves this for her efficiently.

##### ***Input Format***

The first line of input is an integer N, representing the size of the array.

The second line of input consists of N space-separated integers, representing the elements of the array.

##### ***Output Format***

The output displays a single integer representing the sum of the third-largest and second-smallest elements in the array.

Refer to the sample output for the formatting specifications.

### ***Sample Test Case***

Input: 10  
10 20 30 40 50 60 70 80 90 100  
Output: 100

### ***Answer***

```
import java.util.*;  
class SumThirdLargestSecondSmallest  
{  
  
    public static void main(String[] args)  
    {  
  
        Scanner sc = new Scanner(System.in);  
        int N = sc.nextInt();  
        int[] arr = new int[N];  
        for (int i = 0; i < N; i++)  
        {  
            arr[i] = sc.nextInt();  
  
        }  
  
        Arrays.sort(arr);  
        int secondSmallest = arr[1];  
        int thirdLargest = arr[N - 3];  
  
        int sum = secondSmallest + thirdLargest;  
        System.out.println(sum);  
    }  
}
```

}

}

**Status : Correct**

**Marks : 10/10**