

# Rajalakshmi Engineering College

Name: Prajith S

Email: 240701390@rajalakshmi.edu.in

Roll no:

Phone: 8610799150

Branch: REC

Department: CSE - Section 8

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.Scanner;
import java.util.Arrays;
public class Main{
    public static void main(String [] args){
        Scanner n=new Scanner (System.in);
        int n1=n.nextInt();
        int arr[]=new int[n1];
        for(int i=0;i<n1;i++){
            arr[i]=n.nextInt();
        }
        Arrays.sort(arr);
        int b=arr[1];
        int s=arr[n1-3];
        int s1=b+s;
        System.out.println(s1);

    }
}
```

***Status : Correct***

***Marks : 10/10***