

# Rajalakshmi Engineering College

Name: chandru k

Email: 241001501@rajalakshmi.edu.in

Roll no: 241001501

Phone: 7358178749

Branch: REC

Department: IT - Section 3

Batch: 2028

Degree: B.E - IT

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 scanner = new Scanner(System.in);
        int n = scanner.nextInt();
        int[] arr = new int[n];

        for(int i = 0; i < n; i++){
            arr[i] = scanner.nextInt();
        }

        Arrays.sort(arr);

        int secondSmallest = arr[1];
        int thirdLargest = arr[n - 3];

        System.out.println(secondSmallest + thirdLargest);

        scanner.close();
    }
}
```

**Status : Correct**

**Marks : 10/10**