

# Rajalakshmi Engineering College

Name: sanjit v

Email: 241501183@rajalakshmi.edu.in

Roll no: 241501183

Phone: null

Branch: REC

Department: AI & ML - Section 1

Batch: 2028

Degree: B.E - AI & ML

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.*;
public class Main{
    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 s = arr[1];
        int t = arr[N-3];
        int sum = s + t;
        System.out.println(sum);
    }
}
```

**Status : Correct**

**Marks : 10/10**