

# Rajalakshmi Engineering College

Name: Ritesh Sivakumar

Email: 240701427@rajalakshmi.edu.in

Roll no: 240701427

Phone: 9342061449

Branch: REC

Department: CSE - Section 10

Batch: 2028

Degree: B.E - CSE

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## 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;
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();
        }
        for(int i=0;i<n-1;i++) {
            for(int j=i+1;j<n;j++) {
                if(arr[i]>arr[j]) {
                    int temp = arr[i];
                    arr[i]=arr[j];
                    arr[j]=temp;
                }
            }
        }
        int secondsmallest = arr[1];
        int thirdlargest = arr[n - 3];
        System.out.println(secondsmallest + thirdlargest);
    }
}
```

**Status : Correct**

**Marks : 10/10**