

# Rajalakshmi Engineering College

Name: Bhargav Venkat DC  
Email: 241001032@rajalakshmi.edu.in  
Roll no: 241001032  
Phone: 9884969277  
Branch: REC  
Department: IT - Section 1  
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**

// You are using Java

import java.util.\*;

class numerical {

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];

System.out.println(secondSmallest + thirdLargest);

}

}

**Status :** Correct

**Marks :** 10/10