

# Rajalakshmi Engineering College

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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**

```
// You are using Java
import java.util.*;
class Main
{
    public static void main(String[] args)
    {
        Scanner s = new Scanner(System.in);

        int n = s.nextInt();

        int[] arr = new int[n];

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

        int second_smallest = arr[1];
        int third_largest = arr[n-3];

        int sum_of_the_elements = second_smallest + third_largest;
        System.out.println(sum_of_the_elements);
    }
}
```

**Status : Correct**

**Marks : 10/10**