

# 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**

```
import java.util.*;  
class array{  
    public static void main(String[] args){  
        Scanner scanner=new Scanner(System.in);  
        int n=scanner.nextInt();  
        int a[]={};  
        for(int i=0;i<n;i++){  
            a[i]=scanner.nextInt();  
        }  
        Arrays.sort(a);  
        int third_largest=a[n-3];  
        int second_smallest=a[1];  
        int result=third_largest+second_smallest;  
        System.out.println(result);  
    }  
}
```

**Status : Correct**

**Marks : 10/10**