

# 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 Main{
public static void main(String[]args){
    Scanner scan = new Scanner(System.in);
    int b = scan.nextInt();
    int[] a = new int[b];
    for(int i=0;i<b;i++){
        a[i] = scan.nextInt();
    }
    Arrays.sort(a);
    int c = a[1];
    int d = a[b - 3];
    int e = c + d;
    System.out.println(e);
}
}
```

**Status : Correct**

**Marks : 10/10**