

# Rajalakshmi Engineering College

Name: Shasmeen Syed  
Email: 240701492@rajalakshmi.edu.in  
Roll no: 2116240701492  
Phone: 9677485510  
Branch: REC  
Department: CSE - Section 5  
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;
import java.util.Arrays;

class main{
    public static void main(String args[]){
        Scanner sc=new Scanner(System.in);
        int n=sc.nextInt();
        int sum=0;
        int[] array=new int[n];
        for(int i=0;i<n;i++){
            array[i]=sc.nextInt();
        }
        Arrays.sort(array);
        sum=array[n-3]+array[1];
        System.out.printf("%d",sum);
        sc.close();
    }
}
```

**Status :** Correct

**Marks :** 10/10