

# Rajalakshmi Engineering College

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Branch: REC

Department: AI & DS - Section 1

Batch: 2028

Degree: B.E - AI & DS

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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 a=sc.nextInt();
        int [] arr=new int[a];
        for(int i=0;i<a;i++)
        {
            arr[i]=sc.nextInt();
        }
        Arrays.sort(arr);
        int len = arr.length;
        int sum=0;
        for(int i=0;i<a;i++)
        {
            sum=arr[1] + arr[len-3];
        }
        System.out.println(sum);
    }
}
```

**Status :** Correct

**Marks :** 10/10