

# Rajalakshmi Engineering College

Name: Ramya J.T  
Email: 241801223@rajalakshmi.edu.in  
Roll no: 241801223  
Phone: 8946015292  
Branch: REC  
Department: AI & DS - Section 5  
Batch: 2028  
Degree: B.E - AI & DS

Scan to verify results



## 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.Scanner;
import java.util.Arrays;
class Pattern{
    public static void main(String[] args){
        Scanner s=new Scanner(System.in);
        int n;
        n=s.nextInt();
        int[] arr=new int[n];

        for(int i=0;i<n;i++){
            arr[i]=s.nextInt();
        }
        Arrays.sort(arr);
        int small=arr[1];
        int large=arr[n-3];
        int sum=small+large;
        System.out.println(sum);
    }
}
```

**Status :** Correct

**Marks :** 10/10