

# 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**

// You are using Java

```
import java.util.Scanner;
```

```
class Main{
```

```
    public static void main(String [] args){
```

```
        Scanner s=new Scanner(System.in);
```

```
        int n=s.nextInt();
```

```
        int a[] = new int[n];
```

```
        for(int i=0;i<n;i++){
```

```
            int val=s.nextInt();
```

```
            a[i]=val;
```

```
        }
```

```
        for(int i=0;i<n-1;i++){
```

```
            for(int j=i+1;j<n;j++){
```

```
                if(a[i]<a[j]){
```

```
                    int t=a[j];
```

```
                    a[j]=a[i];
```

```
                    a[i]=t;
```

```
                }
```

```
            }
```

```
        }
```

```
        int val=a.length;
```

```
        System.out.println(a[2]+a[val-2]);
```

```
    }
```

```
}
```

**Status : Correct**

**Marks : 10/10**