

# Rajalakshmi Engineering College

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Branch: REC

Department: IT - Section 1

Batch: 2028

Degree: B.E - IT

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## 2024\_28\_III\_OOPS Using Java Lab

### 2028\_REC\_OOPS using Java\_Week 10\_Q4

Attempt : 1

Total Mark : 10

Marks Obtained : 10

#### **Section 1 : COD**

##### **1. Problem Statement**

In a ticket reservation system, you store the available seat numbers in a TreeSet. Users input their desired seat number, and the program checks whether the chosen seat is available.

Using a TreeSet ensures quick and efficient verification of seat availability, ensuring a smooth and organized ticket booking process.

##### ***Input Format***

The first line of input contains a single integer n, representing the number of available seats.

The second line contains n space-separated integers, representing the available seat numbers.

The third line contains an integer m, representing the seat number that needs to be searched.

### ***Output Format***

The output displays "[m] is present!" if the given seat is available. Otherwise, it displays "[m] is not present!"

Refer to the sample output for the formatting specifications.

### ***Sample Test Case***

Input: 4

2 4 5 6

5

Output: 5 is present!

### ***Answer***

```
// You are using Java
import java.io.*;
import java.util.*;
class Main{
    public static void main(String[] args){

        Scanner sc=new Scanner(System.in);
        int n=sc.nextInt();

        TreeSet<Integer> seats=new TreeSet<>();

        for(int i=0;i<n;i++){
            int s=sc.nextInt();
            seats.add(s);
        }

        int m=sc.nextInt();

        if(seats.contains(m))
            System.out.println(m+" is present!");
        else
            System.out.println(m+" is not present!");
    }
}
```

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}

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**Status : Correct**

**Marks : 10/10**