

# Rajalakshmi Engineering College

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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 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***

```
import java.util.*;  
  
public class Main {  
    public static void main(String[] args) {  
        Scanner sc = new Scanner(System.in);  
        int n = sc.nextInt();  
        Set<Integer> seats = new TreeSet<>();  
        for (int i = 0; i < n; i++) {  
            seats.add(sc.nextInt());  
        }  
        int m = sc.nextInt();  
        if (seats.contains(m)) {  
            System.out.println(m + " is present!");  
        } else {  
            System.out.println(m + " is not present!");  
        }  
    }  
}
```

**Status : Correct**

**Marks : 10/10**