

# Rajalakshmi Engineering College

Name: Nandhini Velmurugan  
Email: 241901063@rajalakshmi.edu.in  
Roll no: 241901063  
Phone: 9043367699  
Branch: REC  
Department: CSE (CS) - Section 1  
Batch: 2028  
Degree: B.E - CSE (CS)

Scan to verify results



## 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.*;  
  
class Main {  
    public static void main(String[] args) {  
        Scanner scan = new Scanner(System.in);  
        int n = scan.nextInt();  
  
        Set<Integer> set = new TreeSet<>();  
        for (int i = 0; i < n; i++) {  
            set.add(scan.nextInt());  
        }  
  
        int x = scan.nextInt();  
        boolean t = set.contains(x);  
  
        if (t) {  
            System.out.println(x + " is present!");  
        } else {  
            System.out.println(x + " is not present!");  
        }  
    }  
}
```

**Status : Correct**

**Marks : 10/10**