

Rajalakshmi Engineering College

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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 : 9

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.util.Scanner;
```

```
import java.util.TreeSet;
```

```
class TicketReservation {  
    public static void main(String[] args) {  
        Scanner sc = new Scanner(System.in);
```

```
  
        int n = Integer.parseInt(sc.nextLine());  
        String[] seatInput = sc.nextLine().split(" ");  
        int m = Integer.parseInt(sc.nextLine());
```

```
  
        TreeSet<Integer> availableSeats = new TreeSet<>();
```

```
  
        for (int i = 0; i < n; i++) {  
            int seat = Integer.parseInt(seatInput[i]);  
            availableSeats.add(seat);  
        }
```

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

```
}  
  }  
}
```

Status : Partially correct

Marks : 9/10