

Rajalakshmi Engineering College

Name: RamRohith Muthusamy
Email: 240701419@rajalakshmi.edu.in
Roll no: 240701419
Phone: 8248706370
Branch: REC
Department: CSE - Section 5
Batch: 2028
Degree: B.E - CSE

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 : 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

```
import java.util.Scanner;  
import java.util.Set;  
import java.util.TreeSet;
```

```
public class Main{  
    public static void main(String[] args) {  
        Scanner scanner = new Scanner(System.in);  
  
        int n = Integer.parseInt(scanner.nextLine());  
        String[] seatNumbers = scanner.nextLine().split(" ");  
  
        Set<Integer> seats = new TreeSet<>();  
        for (String seat : seatNumbers) {  
            seats.add(Integer.parseInt(seat));  
        }  
  
        int m = Integer.parseInt(scanner.nextLine());  
  
        if (seats.contains(m)) {  
            System.out.println(m + " is present!");  
        } else {  
            System.out.println(m + " is not present!");  
        }  
    }  
}
```

```
scanner.close();  
}  
}
```

Status : Partially correct

Marks : 9/10