

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 : 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.util.*;
public class Main {
    public static void main(String args[]) {
        Scanner sc = new Scanner(System.in);
        TreeSet<Integer> tree = new TreeSet<>();

        int n = sc.nextInt();
        int[] arr = new int[n];

        for(int i=0;i<n;i++) {
            arr[i] = sc.nextInt();
        }

        int k = sc.nextInt();

        for(int i=0;i<n;i++) {
            if(arr[i]==k) {
                System.out.printf("%d is present!",k);
                System.exit(0);
            }
        }
        System.out.printf("%d is not present!",k);
    }
}
```

}

Status : Correct

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Marks : 10/10

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