Rajalakshmi Engineering College

Name: Lakshmi Narayanan S
Email: 241801133@rajalakshmi.edu.in
Roll no: 241801133
Phone: 9345832054
Branch: REC
Department: AI & DS - Section 3
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

```java
// You are using Java
import java.util.*;
class Solution{
   public static void main(String[] args){
      Scanner sc = new Scanner(System.in);
      int n = sc.nextInt();
      Set<Integer> set = new TreeSet<>();
      for(int i = 0;i < n;i++){
         set.add(sc.nextInt());
      }
      int t = sc.nextInt();
      int k = set.size();
      set.add(t);
      if(set.size() == k){
         System.out.print(t+" is present!");
      }
      else{
         System.out.print(t + " is not present!");
      }
   }
}
```

Status : Correct   *Marks : 10/10*