

# Rajalakshmi Engineering College

Name: Arilli Jagadeesh A  
Email: 241901502@rajalakshmi.edu.in  
Roll no: 241901502  
Phone: 9361250488  
Branch: REC  
Department: CSE (CS) - Section 2  
Batch: 2028  
Degree: B.E - CSE (CS)

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## 2024\_28\_III\_OOPS Using Java Lab

### 2028\_REC\_OOPS using Java\_Week 4\_Q3

Attempt : 1  
Total Mark : 10  
Marks Obtained : 10

#### Section 1 : Coding

##### 1. Problem Statement

Bechan Chacha is seeking help to filter out valid mobile numbers from a list provided by his crush. He can only pick his crush's number if the list contains valid mobile numbers.

A mobile number is considered valid if:

It has exactly 10 digits. It consists only of numeric values (0–9). It does not begin with zero.

Your task is to determine whether each mobile number in the list is valid or not.

##### ***Input Format***

The first line contains an integer T, representing the number of mobile numbers

to check.

The next T lines each contain a string S, representing a mobile number.

**Output Format**

For each mobile number S, the output print "YES" if it is valid.

Otherwise, print "NO".

Refer to the sample output for formatting specifications.

**Sample Test Case**

Input: 1  
9876543210

Output: YES

**Answer**

```
import java.util.*;

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

        int T = sc.nextInt();
        sc.nextLine(); // consume newline

        for (int i = 0; i < T; i++) {
            String number = sc.nextLine().trim();

            if (isValidMobile(number)) {
                System.out.println("YES");
            } else {
                System.out.println("NO");
            }
        }

        sc.close();
    }
}
```

```
private static boolean isValidMobile(String s) {  
    // length must be 10  
    if (s.length() != 10) return false;  
  
    // must not start with 0  
    if (s.charAt(0) == '0') return false;  
  
    // all characters must be digits  
    for (char c : s.toCharArray()) {  
        if (!Character.isDigit(c)) return false;  
    }  
  
    return true;  
}
```

**Status :** Correct

**Marks :** 10/10