# Rajalakshmi Engineering College

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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**

```java
// You are using Java
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 after integer input

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

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

        sc.close();
    }
```

```java
private static boolean isValidMobile(String mobile) {
    // Check length is exactly 10
    if (mobile.length() != 10) {
        return false;
    }

    // Check first character is not '0'
    if (mobile.charAt(0) == '0') {
        return false;
    }

    // Check all characters are digits
    for (char c : mobile.toCharArray()) {
        if (!Character.isDigit(c)) {
            return false;
        }
    }

    return true;
}
}
```

*Status :* Correct                                    *Marks : 10/10*