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

```
// You are using Java
import java.util.Scanner;

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 number = sc.nextLine();

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

        sc.close();
    }
```

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

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

        // Check all characters are digits
        for (int i = 0; i < 10; i++) {
            if (!Character.isDigit(number.charAt(i))) {
                return false;
            }
        }

        return true;
    }
}
```

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