

Rajalakshmi Engineering College

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Batch: 2028

Degree: B.E - CSE (CS)

Scan to verify results



2024_28_III_OOPS Using Java Lab

2028_REC_OOPS using Java_Week 4_Q5

Attempt : 1

Total Mark : 10

Marks Obtained : 10

Section 1 : Coding

1. Problem Statement

In a secure banking system, customers are required to create PIN codes for accessing their accounts. The bank wants to validate these PIN codes before accepting them.

A PIN code is considered valid if:

It consists of exactly 4 digits. All characters must be numeric (0–9). It cannot contain all identical digits (e.g., 1111 is invalid).

Your task is to determine whether each PIN code in the list is valid or not.

Input Format

The first line of input contains an integer T, representing the number of PIN codes to check.

The next T lines each contain a string S, representing a PIN code.

Output Format

For each PIN code S, the output print "YES" if it is valid.

Otherwise, the output print "NO".

Refer to the sample output for formatting specifications.

Sample Test Case

Input: 1

1234

Output: YES

Answer

```
import java.util.Scanner;

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

        // Read number of PIN codes
        int T = Integer.parseInt(scanner.nextLine());

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

            if (isValidPin(pin)) {
                System.out.println("YES");
            } else {
                System.out.println("NO");
            }
        }

        scanner.close();
    }

    // Method to validate a PIN code
}
```

```
public static boolean isValidPin(String pin) {  
    // Check if length is exactly 4  
    if (pin.length() != 4) return false;  
  
    // Check if all characters are digits  
    for (char ch : pin.toCharArray()) {  
        if (!Character.isDigit(ch)) return false;  
    }  
  
    // Check if all digits are not identical  
    char first = pin.charAt(0);  
    for (int i = 1; i < 4; i++) {  
        if (pin.charAt(i) != first) return true;  
    }  
  
    return false; // All digits are identical  
}
```

Status : Correct

Marks : 10/10