

# Rajalakshmi Engineering College

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## 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.*;  
  
class PinValidator {  
    public static void main(String[] args) {  
        Scanner sc = new Scanner(System.in);  
  
        int T = sc.nextInt();  
        sc.nextLine();  
  
        for (int i = 0; i < T; i++) {  
            String pin = sc.nextLine();  
  
            if (isValidPin(pin)) {  
                System.out.println("YES");  
            } else {  
                System.out.println("NO");  
            }  
        }  
  
        sc.close();  
    }  
  
    private static boolean isValidPin(String pin) {
```

```
if (pin.length() != 4) {
    return false;
}

if (!pin.matches("\\d{4}")) {
    return false;
}

// Check not all digits are identical
char firstChar = pin.charAt(0);
for (int i = 1; i < pin.length(); i++) {
    if (pin.charAt(i) != firstChar) {
        return true; // found a different digit, valid PIN
    }
}

// If all digits are identical, invalid PIN
return false;
}
```

**Status :** Correct

**Marks :** 10/10