Rajalakshmi Engineering College

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2024_28_III_OOPS Using Java Lab

2028_REC_OOPS using Java_Week 4_Q1

Attempt : 1
Total Mark : 10
Marks Obtained : 10

Section 1 : Coding

1. Problem Statement

In a publishing company, editors often need to quickly analyze passages of text to check for punctuation usage. To assist them, you are asked to write a program that counts the number of specific punctuation marks in each passage.

The punctuation marks of interest are:

Commas (,)Periods (.)Question marks (?)

Input Format

The first line of input contains an integer T, representing the number of test cases (passages).

Each of the next T lines contains a single passage of text.

Output Format

For each test case, print three integers separated by spaces, representing the number of commas, periods, and question marks in the passage.

The first line of output corresponds to the first passage, the second line to the second passage, and so on.

Refer to the sample output for formatting specifications.

Sample Test Case

Input: 1
Hello, world. How are you?

Output: 1 1 1

Answer

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

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


        int T = scanner.nextInt();
        scanner.nextLine();

        for (int i = 0; i < T; i++) {

            String passage = scanner.nextLine();

            // Initialize counters for commas, periods, and question marks
            int commaCount = 0;
            int periodCount = 0;
            int questionMarkCount = 0;

            // Iterate through each character of the passage
            for (char c : passage.toCharArray()) {
                if (c == ',') {
```

```java
                commaCount++;
            } else if (c == '.') {
                periodCount++;
            } else if (c == '?') {
                questionMarkCount++;
            }
        }

        // Print the counts in the specified format
        System.out.println(commaCount + " " + periodCount + " " +
questionMarkCount);
    }

    scanner.close();
    }
}
```

Status : Correct   *Marks : 10/10*