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
import java.util.Scanner;

class PunctuationCounter {

    // Function to count punctuation marks
    public static int[] countPunctuation(String passage) {
        int commas = 0, periods = 0, questionMarks = 0;

        // Loop through each character of the passage
        for (int i = 0; i < passage.length(); i++) {
            char ch = passage.charAt(i);
            if (ch == ',') commas++;
            else if (ch == '.') periods++;
            else if (ch == '?') questionMarks++;
        }

        return new int[]{commas, periods, questionMarks};
    }

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

        // Read number of test cases
```

```java
        int T = Integer.parseInt(scanner.nextLine());

        // Process each test case
        for (int i = 0; i < T; i++) {
            String passage = scanner.nextLine();

            // Get counts of commas, periods, and question marks
            int[] punctuationCounts = countPunctuation(passage);

            // Output the results
            System.out.println(punctuationCounts[0] + " " + punctuationCounts[1] + " "
+ punctuationCounts[2]);
        }

        scanner.close();
    }
}
```

Status : Correct   *Marks : 10/10*