

# Rajalakshmi Engineering College

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Batch: 2028

Degree: B.E - AI & DS

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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***

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

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

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

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

            int commas = 0;
            int periods = 0;
            int questions = 0;

            // Loop through characters and count specific punctuation
            for (char ch : passage.toCharArray()) {
                if (ch == ',') {
                    commas++;
                } else if (ch == '.') {
                    periods++;
                }
            }
        }
    }
}
```

```
        } else if (ch == '?') {
            questions++;
        }
    }
    // Print the counts
    System.out.println(commas + " " + periods + " " + questions);
}
scanner.close();
}
```

**Status :** Correct

**Marks :** 10/10