

# Rajalakshmi Engineering College

Name: Zaina Raheen A.P

Email: 241801328@rajalakshmi.edu.in

Roll no: 241801328

Phone: 9384899474

Branch: REC

Department: AI & DS - Section 4

Batch: 2028

Degree: B.E - AI & DS

Scan to verify results



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

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

            for (int j = 0; j < passage.length(); j++) {
                char ch = passage.charAt(j);
                if (ch == ',') {
                    commaCount++;
                } else if (ch == '.') {
                    periodCount++;
                } else if (ch == '?') {
                    questionMarkCount++;
                }
            }
            System.out.print(commaCount + " ");
            System.out.print(periodCount + " ");
            System.out.print(questionMarkCount + " ");
        }
    }
}
```

```
        }
    }
    System.out.println(commaCount + " " + periodCount + " " +
questionMarkCount);
}
scanner.close();
}
}
```

**Status :** Correct

**Marks :** 10/10

# Rajalakshmi Engineering College

Name: Zaina Raheen A.P

Email: 241801328@rajalakshmi.edu.in

Roll no: 241801328

Phone: 9384899474

Branch: REC

Department: AI & DS - Section 4

Batch: 2028

Degree: B.E - AI & DS

Scan to verify results



## 2024\_28\_III\_OOPS Using Java Lab

### 2028\_REC\_OOPS using Java\_Week 4\_Q2

Attempt : 1

Total Mark : 10

Marks Obtained : 10

#### **Section 1 : Coding**

##### **1. Problem Statement**

Anu is developing a tool for a conference registration system. Participants submit keywords related to their fields of interest. The organizer wants to sort these keywords alphabetically to generate tags for session grouping.

Write a program that accepts at least five keywords as input arguments and outputs them in sorted alphabetical order.

##### ***Input Format***

The first line of input contains an integer n, representing the number of keywords.

The second line of input contains n space-separated keywords (string).

##### ***Output Format***

The output prints n space separated strings representing the sorted keyword in alphabetical order.

Refer to the sample output for formatting specifications.

### ***Sample Test Case***

Input: 5

Blockchain Cloud AI Data Cybersecurity

Output: AI Blockchain Cloud Cybersecurity Data

### ***Answer***

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

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

        String[] keywords = new String[n];
        for (int i = 0; i < n; i++) {
            keywords[i] = scanner.next();
        }

        Arrays.sort(keywords);

        for (int i = 0; i < n; i++) {
            System.out.print(keywords[i] + " ");
        }
        System.out.println();
        scanner.close();
    }
}
```

**Status : Correct**

**Marks : 10/10**