

Rajalakshmi Engineering College

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Branch: REC

Department: AI & ML - Section 4

Batch: 2028

Degree: B.E - AI & ML

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

```
import java.util.Scanner;
```

```
class PunctuationCount {  
    public static void main(String[] args) {  
        Scanner scanner = new Scanner(System.in);  
        int T = scanner.nextInt();  
        scanner.nextLine(); // Consume the newline character after reading T  
  
        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.println(commaCount + " " + periodCount + " " +
questionMarkCount);
    }

    scanner.close();
}
}
```

Status : Correct

Marks : 10/10

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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;

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

        String[] keywords = scanner.nextLine().split(" ");
        Arrays.sort(keywords);

        for (int i = 0; i < keywords.length; i++) {
            System.out.print(keywords[i]);
            if (i < keywords.length - 1) {
                System.out.print(" ");
            }
        }
        System.out.println();

        scanner.close();
    }
}
```

Status : Correct

Marks : 10/10