Week-10-Character Arrays and String

Coding

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Status Finished
            Started Tuesday, 24 December 2024, 1:32 PM
         Completed Tuesday, 24 December 2024, 2:29 PM
           Duration 56 mins 39 secs
Question 1
                     Given a string, s, consisting of alphabets and digits, find the frequency of each digit in the given string.
Marked out of
1.00
                     Input Format
Flag question
                     The first line contains a string, num which is the given number.
                     Constraints
                     1 ≤ len(num) ≤ 1000
                     All the elements of num are made of English alphabets and digits.
                     Output Format
                     Print ten space-separated integers in a single line denoting the frequency of each digit from 0 to 9.
                     Sample Input 0
```

```
a11472o5t6
Sample Output 0
0210111100
Explanation 0
In the given string:
    1 occurs two times.
    2, 4, 5, 6 and 7 occur one time each.
The remaining digits 0, 3, 8 and 9 don't occur at all.
Answer: (penalty regime: 0 %)
   1 #include<stdio.h>
   2 v int main(){
           char str[1000];
   3
            scanf("%s",str);
           int hash[10]={0,0,0,0,0,0,0,0,0,0};
   5
   6
            int temp;
           for(int i=0;str[i]!='\0';i++)
   8
                temp = str[i]-'0';
  10
                if(temp<=9 && temp>=0)
  11 ,
  12
                    hash[temp]++;
  13
                }
  14
```

```
15
16 v
17
18
19
20 }
          for( int i=0; i<=9; i++)
               printf("%d ",hash[i]);
```

	Input	E	кр	ec	tec	i						G	ot	-							
~	a11472o5t6	0	2	1	0	1	1	1	1	0	0	0	2 1 0 1 1 1 1 0 0							~	
~	lw4n88j12n1	0	2	1	0	1	0	0	0	2	0	0	0 2 1 0 1 0 0 0 2 0						~		
~	1v888861256338ar0ekk	1	1	1	2	0	1	2	0	5	0	1	1 1 2 0 1 2 0 5 0						~		

Question 2 Correct Marked out of 1.00

Flag question

Today, Monk went for a walk in a garden. There are many trees in the garden and each tree has an English alphabet on it. While Monk was walking, he noticed that all trees with vowels on it are not in good state. He decided to take care of them. So, he asked you to tell him the count of such trees in the garden.

Note: The following letters are vowels: 'A', 'E', 'I', 'O', 'U', 'a', 'e', 'i', 'o' and 'u'.

Input:

Passed all tests! ✓

The first line consists of an integer T denoting the number of test cases.

Each test case consists of only one string, each character of string denoting the alphabet (may be lowercase or uppercase) on a tree in the garden.

Output:

For each test case, print the count in a new line.

Constraints:

 $1 \le T \le 10$ $1 \le length \ of \ string \le 10^5$

SAMPLE INPUT

nBBZLaosnm

JHklsnZtTL

SAMPLE OUTPUT

Explanation

In test case 1, a and o are the only vowels. So, count=2

```
1  #include<stdio.h>
2  int main(){
3  int t;
4  scanf("%d",&t);
6  {
7  char
                                                                                                                                                                                            char str[10000];
int count = 0 ;
scanf("%s",str);
for(int i=0;str[i]!='\0';i++)
                             8
9
10
11
12
13
14
15
16
17
18
19
20
21
                                                                                                                                                                                                                                        char c = str[i];
if((c=='a')||(c=='e')||(c=='i')||(c=='o')||(c=='u')||(c=='A')||(c=='E')||(c=='E')||(c=='E')||(c=='a')||(c=='a')||(c=='a')||(c=='a')||(c=='a')||(c=='a')||(c=='a')||(c=='a')||(c=='a')||(c=='a')||(c=='a')||(c=='a')||(c=='a')||(c=='a')||(c=='a')||(c=='a')||(c=='a')||(c=='a')||(c=='a')||(c=='a')||(c=='a')||(c=='a')||(c=='a')||(c=='a')||(c=='a')||(c=='a')||(c=='a')||(c=='a')||(c=='a')||(c=='a')||(c=='a')||(c=='a')||(c=='a')||(c=='a')||(c=='a')||(c=='a')||(c=='a')||(c=='a')||(c=='a')||(c=='a')||(c=='a')||(c=='a')||(c=='a')||(c=='a')||(c=='a')||(c=='a')||(c=='a')||(c=='a')||(c=='a')||(c=='a')||(c=='a')||(c=='a')||(c=='a')||(c=='a')||(c=='a')||(c=='a')||(c=='a')||(c=='a')||(c=='a')||(c=='a')||(c=='a')||(c=='a')||(c=='a')||(c=='a')||(c=='a')||(c=='a')||(c=='a')||(c=='a')||(c=='a')||(c=='a')||(c=='a')||(c=='a')||(c=='a')||(c=='a')||(c=='a')||(c=='a')||(c=='a')||(c=='a')||(c=='a')||(c=='a')||(c=='a')||(c=='a')||(c=='a')||(c=='a')||(c=='a')||(c=='a')||(c=='a')||(c=='a')||(c=='a')||(c=='a')||(c=='a')||(c=='a')||(c=='a')||(c=='a')||(c=='a')||(c=='a')||(c=='a')||(c=='a')||(c=='a')||(c=='a')||(c=='a')||(c=='a')||(c=='a')||(c=='a')||(c=='a')||(c=='a')||(c=='a')||(c=='a')||(c=='a')||(c=='a')||(c=='a')||(c=='a')||(c=='a')||(c=='a')||(c=='a')||(c=='a')||(c=='a')||(c=='a')||(c=='a')||(c=='a')||(c=='a')||(c=='a')||(c=='a')||(c=='a')||(c=='a')||(c=='a')||(c=='a')||(c=='a')||(c=='a')||(c=='a')||(c=='a')||(c=='a')||(c=='a')||(c=='a')||(c=='a')||(c=='a')||(c=='a')||(c=='a')||(c=='a')||(c=='a')||(c=='a')||(c=='a')||(c=='a')||(c=='a')||(c=='a')||(c=='a')||(c=='a')||(c=='a')||(c=='a')||(c=='a')||(c=='a')||(c=='a')||(c=='a')||(c=='a')||(c=='a')||(c=='a')||(c=='a')||(c=='a')||(c=='a')||(c=='a')||(c=='a')||(c=='a')||(c=='a')||(c=='a')||(c=='a')||(c=='a')||(c=='a')||(c=='a')||(c=='a')||(c=='a')||(c=='a')||(c=='a')||(c=='a')||(c=='a')||(c=='a')||(c=='a')||(c=='a')||(c=='a')||(c=='a')||(c=='a')||(c=='a')||(c=='a')||(c=='a')||(c=='a')||(c='a')||(c=='a')||(c=='a')||(c=='a')||(c=='a')||(c=='a')||(c=='a')||(c=='a')||(c=='a')||(c
                                                                                                                                                                                               printf("%d\n",count);
                                                                                                                                              }
return 0;
                                                                                     }
```

	Input	Expected	Got	
~	2 nBBZLaosnm JHkIsnZtTL	2	2	~
~	2 nBBZLaosnm	2 1	2	~

JHkIsnZtTL Passed all tests! ✓ Question 3 Given a sentence, s. print each word of the sentence in a new line. Correct Marked out of 1.00 Input Format Flag question The first and only line contains a sentence, s. Constraints $1 \le len(s) \le 1000$ **Output Format** Print each word of the sentence in a new line. Sample Input 0 This is C Sample Output 0



Question 4 Correct Marked out of 1.00 Flag question

Input Format

You are given two strings, **a** and **b**, separated by a new line. Each string will consist of lower case Latin characters ('a'-'z').

Output Format

In the first line print two space-separated integers, representing the length of a and b respectively.

In the second line print the string produced by concatenating \boldsymbol{a} and \boldsymbol{b} ($\boldsymbol{a} + \boldsymbol{b}$).

In the third line print two strings separated by a space, **a'** and **b'**. **a'** and **b'** are the same as **a** and **b**, respectively, except that their first characters are swapped.

```
abcd
ef

Sample Output

4 2
abcdef
ebcd af

Explanation

a = "abcd"
b = "ef"
|a| = 4
|b| = 2
a + b = "abcdef"
a' = "ebcd"
b' = "af"

Answer: (penalty regime: 0 %)
```

Passed all tests! ✓