REC-CIS

GE23131-Programming Using C-2024

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Status	Finished
Started	Monday, 23 December 2024, 5:33 PM
Completed	Monday, 23 December 2024, 7:39 PM
Duration	2 hours 6 mins
Overdue	36 mins 43 secs

Question **1**

Correct

Marked out of 1.00

Flag question

Given a string, ***s***, consisting of alphabets and digits, find the frequency of each digit in the giv

Input Format

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

Sample Input 0

a11472o5t6

Sample Output 0

0 2 1 0 1 1 1 1 0 0

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 %)

```
#include<stdio.h>

int main()
{
    char str[1000];
    scanf("%s", str);
    int hash[10]={0,0,0,0,0,0,0,0,0,0};
    int temp;
    for(int i=0;str[i]!='\0';i++)
    {
        temp = str[i]-'0';
        if(temp<=9 && temp>=0)
        {
```

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```
    for(int i=0;i<=9;i++)
    {
        printf("%d ", hash[i]);
    }
    return 0;
}
```

	Input	Expected	Got	
	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 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	

Passed all tests!

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 h
walking, he noticed that all trees with vowels on it are not in good state. He decided to take c
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:

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 (ma
garden.

Output:

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

Constraints:

1 ≤ T ≤ 10
1 ≤ length of string ≤ 10^5

SAMPLE INPUT

2
nBBZLaosnm
JHklsnZtTL

SAMPLE OUTPUT

2
1

Explanation

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

Answer: (penalty regime: 0 %)

```
#include<stdio.h>

```

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```
    scanf("%d", &t);
    while(t--)
    {
        char str[100000];
        int count=0;
        scanf("%s", str);
        for(int i=0;str[i]!='\0';i++)
        {
            char c= str[i];
            if((c=='a')||(c=='e')||(c=='i')||(c=='o')||(c=='u')||(c=='A')
            count++;
        }
        printf("%d\n",count);
    }
    return 0;
}
```

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

Passed all tests!

Question **3**

Correct

Marked out of 1.00

Flag question

Given a sentence, ***s***, print each word of the sentence in a new line.

Input Format

The first and only line contains a sentence, ***s***.

Constraints

1 ≤ len(s) ≤ 1000

Output Format

Print each word of the sentence in a new line.

Sample Input 0

This is C

Sample Output 0

This
is
C

Explanation 0

In the given string, there are three words ["This", "is", "C"]. We have to print each of these wo

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```c

int main()
{
    char s[1000];
    scanf("%[^\n]s",s);
    for(int i=0;s[i]!='\0';i++)
    {
        if(s[i]!=' ')
        printf("%c", s[i]);
        else
        printf("\n");
    }
    return 0;
}
```

	Input	Expected	Got	
	This is C	This is C	This is C	
	Learning C is fun	Learning C is fun	Learning C is fun	

Passed all tests!

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 c

Output Format

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

In the second line print the string produced by concatenating ***a*** and ***b*** (***a*** + ***b***).

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

Sample Input

abcd

ef

Sample Output

4 2

abcdef

ebcd af

Explanation

a = "abcd"

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|b| = 2

a + b = "abcdef"

a' = "ebcd"

b' = "af"

Answer: (penalty regime: 0 %)

```c
#include<stdio.h>

int main()
{
    char str1[10],str2[10],t;
    int i=0,j=0;
    int count1=0,count2=0;
    scanf("%s",str1);
    scanf("%s",str2);
    while(str1[i]!='\0')
    {
        count1++;
        i++;
    }
    while(str2[j]!='\0')
    {
        count2++;
        j++;
    }
    printf("%d %d\n",count1,count2);
    printf("%s%s\n",str1,str2);
    t=str1[0];
    str1[0]=str2[0];
    str2[0]=t;
    printf("%s %s",str1,str2);
    return 0;
}
```

	Input	Expected	Got	
	abcd ef	4 2 abcdef ebcd af	4 2 abcdef ebcd af	

Passed all tests!