

## **Programming Using C**

week 10 practice session coding

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

### Input Format

The first line contains a string `eyes` which is the given number

3. a.  $\text{Si}(\text{CH}_3)_4$  b.  $\text{Si}(\text{CH}_3)_2\text{Cl}_2$

All the elements of mars are made of Trillity alphas and dials.

### Output Format

Below, *space-separated integers* is a single line denoting the frequency of each digit from 0 to 9.

### Sample Input 0

a11c72c2c

### Sample Output 4

0210111100

### Explanation C

in the given string:

- 1 occurs two times.
- 2, 4, 5, 6 and 7 occur one time each.

The remaining digits 0, 1, 8 and 9 don't occur at all.

*Keywords:* personality; cognition; self

```

1  ParallelsortData.c
2
3  int main()
4  {
5      char str[1000];
6      scanf("%s", str);
7
8      int hash[16] = {0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0};
9      int temp;
10     for(int i = 0; str[i] != '\0'; i++)
11     {
12         temp = str[i] - 'a';
13         if (temp < 0 || temp > 25)
14         {
15             hash[temp]++;
16         }
17     }
18     for(int i = 0; i < 26; i++)
19     {
20         printf("%d\t", hash[i]);
21     }
22     return 0;
23 }

```

	Input	Expected	Got	
✓	01117500-0	0 2 1 0 1 1 2 0 0	0 2 1 0 1 1 1 0 0	✓
✓	50000122-0	0 2 1 0 1 0 0 0 0	0 2 1 0 1 0 0 0 0	✓
✓	1000007200000000	1 1 2 0 0 1 2 0 0	1 1 2 0 0 1 2 0 0	✓

Activate Windows  
Go to Settings to activate Windows

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

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

Input

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

Each test case consists of long string using each character of string denoting the alphabet (long for better view of upper case) once time in the garden.

Output

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

Constraints

$1 \leq T \leq 10$   
 $1 \leq \text{length of string} \leq 10^5$

SAMPLE INPUT

```
2
aBbCaDeF
aBbCaDeF
```

SAMPLE OUTPUT

```
2
4
```

Explanation

In first case, 2 vowels are in the only string, so counted.

Answer: (vowels: vowels: 2)

```
1 #include<iostream>
2 using namespace std;
3 int main()
4 {
5     int T;
6     string s;
7     while(T-->0)
8     {
9         cin>>s;
10        int n=s.length();
11        int count=0;
12        for(int i=0;i<n;i++)
13        {
14            if(s[i]=='A' || s[i]=='E' || s[i]=='I' || s[i]=='O' || s[i]=='U' || s[i]=='a' || s[i]=='e' || s[i]=='i' || s[i]=='o' || s[i]=='u' || s[i]=='y')
15                count++;
16        }
17        cout<<count<<endl;
18    }
19    return 0;
20 }
```

Input	Expected	Got
2	2	2
10	10	10

Percent of correct: 100%

Question 3

Flatten

Marked out of 1.00

0 / 100

0 / 100

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

$1 \leq \text{length} \leq 1000$

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 words in a new line.

Answer: (penalty: 0.0%)

```
1 #include<iostream.h>
2
3 int main()
4 {
5     char s[1000];
6     scanf("%s",s);
7     for(int i=0;s[i]!='\0';i++)
8     {
9         if(s[i]!=' ')
10             printf("%c",s[i]);
11         else
12             printf("\n");
13     }
14     return 0;
15 }
```

	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: ✓

Duration: 4  
Tried: 0  
Marked out of: 100  
0%  
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 **a** and **b** (**a + b**).  
In the third line print two strings separated by a space: **a'** and **b'** and **b'** are the reverse of **a** and **b**, respectively, except that their first characters are swapped.

**Sample Input**

abcd  
ef

**Sample Output**

4 2  
abcdef  
efcd ab

**Explanation**

a = "abcd"  
b = "ef"  
|a| = 4  
|b| = 2  
a + b = "abcdef"  
a' = "efcd"  
b' = "ab"

**Answer:** (possibly negative: 5 %)

```
1 #include<iostream>
2
3 int main()
4 {
5     char str1[50],str2[50],t;
6     int i,j,k;
7     int count1=0,count2=0;
8     scanf("%s",str1);
9     scanf("%s",str2);
10    while(str1[i]!='\0')
11    {
12        count1++;
13        i++;
14    }
15    while(str2[j]!='\0')
16    {
17        count2++;
18        j++;
19    }
20    printf("%d %d",count1,count2);
21    printf("\n%s",str1,str2);
22    char t;
23    for(i=0;i<count1;i++)
24    {
25        str2[i]=str1[i];
26        str1[i]=t;
27    }
28 }
```

	Input	Expected	Got	
✓	abcd	4 2	4 2	✓
✓	ef	efcd ab	efcd ab	✓

Passed all tests! ✓