

Week 10

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Csd

REC-CIS

GE23131-Programming Using C-2024

Quiz navigation

1 2 3 4

Show one page at a time

Finish review

Status Finished

Started Wednesday, 15 January 2025, 11:00 PM

Completed Wednesday, 15 January 2025, 11:24 PM

Duration 23 mins 38 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 given string.

Input Format

The first line contains a string, **num** which is the given number.

Constraints

$1 \leq \text{len}(\text{num}) \leq 1000$

All the elements of num are made of English alphabets and digits.

Output Format

Print the space separated integers in a single line denoting the frequency of each digit from 0 to 9.

Answers: (penalty regime: 0 %)

```
1 #include<stdio.h>
2 int main()
3 {
4     char str[1000];
5     scanf("%s",str);
6     int hash[10]={0,0,0,0,0,0,0,0,0,0};
7     int temp;
8     for(int i=0;str[i]!='\0';i++)
9     {
10         temp=str[i]-'0';
11         if(temp<=9&&temp>=0)
12         {
13             hash[temp]++;
14         }
15     }
16     for(int i=0;i<=9;i++)
17     {
18         printf("%d ",hash[i]);
19     }
20     return 0;
21 }
```

	Input	Expected	Got	
✓	a11472o5t6	0 2 1 0 1 1 1 1 0 0	0 2 1 0 1 1 1 1 0 0	✓
✓	1u4n8Bj12n1	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! ✓

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REC-CIS

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:

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:

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

SAMPLE INPUT

```
2
aDdZLwssss
```

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REC-CIS

SAMPLE OUTPUT

```
2
1
```

Explanation

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

Answer: (penalty regime: 0 %)

```
1 #include<stdio.h>
2 int main()
3 {
4     int t;
5     scanf("%d",&t);
6     while(t--)
7     {
8         char str[100000];
9         int count=0;
10        scanf("%s",str);
11        for(int i=0;str[i]!='\0';i++)
12        {
13            char c= str[i];
14            if((c=='a')||(c=='e')||(c=='i')||(c=='o')||(c=='u')||(c=='A')||(c=='E')||(c=='I')||(c=='O')||(c=='U'))
15                count++;
16        }
17        printf("%d\n",count);
18    }
19    return 0;
20 }
```

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REC-CIS

	Input	Expected	Got
✓	2 nB8ZLaosm JHkIsnZtTL	2 1	2 1
✓	2 nB8ZLaosm 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

$1 \leq \text{len}(s) \leq 1000$

Output Format

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REC-CIS

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 regime: 0 %)

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

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REC-CIS

	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 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'**. **a'** and **b'** are the same as **a** and **b**, respectively, except that their first characters are swapped.

REC-CIS

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

Answer: (penalty regime: 0 %)

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

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REC-CIS

```
9 while(str1[i] != '\0')
10 {
11     count1++;
12     i++;
13 }
14 while(str2[j] != '\0')
15 {
16     count2++;
17     j++;
18 }
19 printf("%d %d\n", count1, count2);
20 printf("%s%s\n", str1, str2);
21 t=str1[0];
22 str1[0]=str2[0];
23 str2[0]=t;
24 printf("%s %s", str1, str2);
25 return 0;
26 }
27 }
```

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

Passed all tests! ✓

Finish review

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