S2 **SANJAYRAM M 2024-CSE**

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 ≤ len(num) ≤ 1000***

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

```c
#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){
        hash[temp]++;}
    }
    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! ✓

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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:**

$1 \leq T \leq 10$
$1 \leq$ *length of string* $\leq 10^5$

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

```c
#include <stdio.h>
int main(){
    int t;
    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')||(c=='E')||(c=='I')||(c=='O')||(c=='U'
            count++;
        }
        printf("%d\n",count);
    }
    return 0;
}
```

| | Input | Expected | Got | |
|---|---|---|---|---|
| ✓ | 2<br>nBBZLaosnm<br>JHkIsnZtTL | 2<br>1 | 2<br>1 | ✓ |
| ✓ | 2<br>nBBZLaosnm<br>JHkIsnZtTL | 2<br>1 | 2<br>1 | ✓ |

Passed all tests! ✓

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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***

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

```c
#include<stdio.h>
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<br>is<br>C | This<br>is<br>C | ✓ |
| ✓ | Learning C is fun | Learning<br>C<br>is<br>fun | Learning<br>C<br>is<br>fun | ✓ |

Passed all tests! ✓

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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.

**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<br>ef | 4 2<br>abcdef<br>ebcd af | 4 2<br>abcdef<br>ebcd af | ✓ |

Passed all tests! ✓