

## Question 1

Correct

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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, **num** which is the given number.

### Constraints

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

All the elements of num are made of 5.

nts 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

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 %)

```
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         printf("%d ",hash[i]);
18     }
19     return 0;
20 }
```

	Input
✓	a11472o5t6
✓	1w4n88j12n1
✓	1v888861256338ar0ekk

Passed all tests! ✓

## Question 2

Correct

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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

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 %)

```
1  #include<stdio.h>
2  int main(){
3      int t;
4      scanf("%d",&t);
5      while(t--){
6          char str[1000];
7          int count=0;
8          scanf("%s",str);
9          for(int i=0;
10             char c=str[i];
11             if((c=='a' || c=='o'));
12             count++;
13         }
14         printf("%d\n",count);
15     }
16     return 0;
17 }
```

Question **3**

Correct

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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**



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 regime: 0 %)

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

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

	Input	Exp
✓	This is C	This is C
✓	Learning C is fun	Learning C is fun

## Question **4**

Correct

Marked out of 1.00

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### 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

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.

### Sample Input

abcd

ef

### Sample Output

4 2

abcdef

ebcd af

### Explanation

$a = \text{"abcd"}$

$b = \text{"ef"}$

|a| = 4

|b| = 2

a + b = "abcdef"

a' = "ebcd"

b' = "af"

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

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

```

15 }
16 printf("%d %d\n", count, str1);
17 printf("%s%s\n", str1, str2);
18 t=str1[0];
19 str1[0]=str2[0];
20 str2[0]=t;
21 printf("%s %s", str1, str2);
22 return 0;
23
24 }

```

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

Passed all tests! ✓

Finish review