

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 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[100];
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 }
```

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
JHkIsnZtTL
```

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[100];
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'))
15            count++;
16        }
17        printf("%d\n",count);
18    }
19 }
```

| | 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 | ✓ |
| ✓ | 1v88861256338ar0ekk | 1 1 1 2 0 1 2 0 5 0 | 1 1 1 2 0 1 2 0 5 0 | ✓ |

Passed all tests! ✓

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

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 regime: 0 %)

```
1 #include<stdio.h>
2 int main()
3 {
4     char s[100];
5     scanf("%[^\\n]",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 }
```

| | Input | Expected | Got | |
|---|-------------------------|----------|-------|---|
| ✓ | 2 nBBZLaosnm JHkIsnZtTL | 2 1 1 | 2 1 1 | ✓ |
| ✓ | 2 nBBZLaosnm JHkIsnZtTL | 2 1 1 | 2 1 1 | ✓ |

Passed all tests! ✓

| | Input | Expected | Got | |
|---|-----------------|------------------|------------------|---|
| ✓ | abcd ef ebcd af | 4 2 abcd ebcd af | 4 2 abcd ebcd af | ✓ |
| ✓ | abcd ef ebcd af | 4 2 abcd ebcd af | 4 2 abcd ebcd af | ✓ |

Passed all tests! ✓

| | Input | Expected | Got | |
|---|-----------------|------------------|------------------|---|
| ✓ | abcd ef ebcd af | 4 2 abcd ebcd af | 4 2 abcd ebcd af | ✓ |
| ✓ | abcd ef ebcd af | 4 2 abcd ebcd af | 4 2 abcd ebcd af | ✓ |

Passed all tests! ✓

| | Input | Expected | Got | |
|---|-----------------|------------------|------------------|---|
| ✓ | abcd ef ebcd af | 4 2 abcd ebcd af | 4 2 abcd ebcd af | ✓ |
| ✓ | abcd ef ebcd af | 4 2 abcd ebcd af | 4 2 abcd ebcd af | ✓ |

Passed all tests! ✓