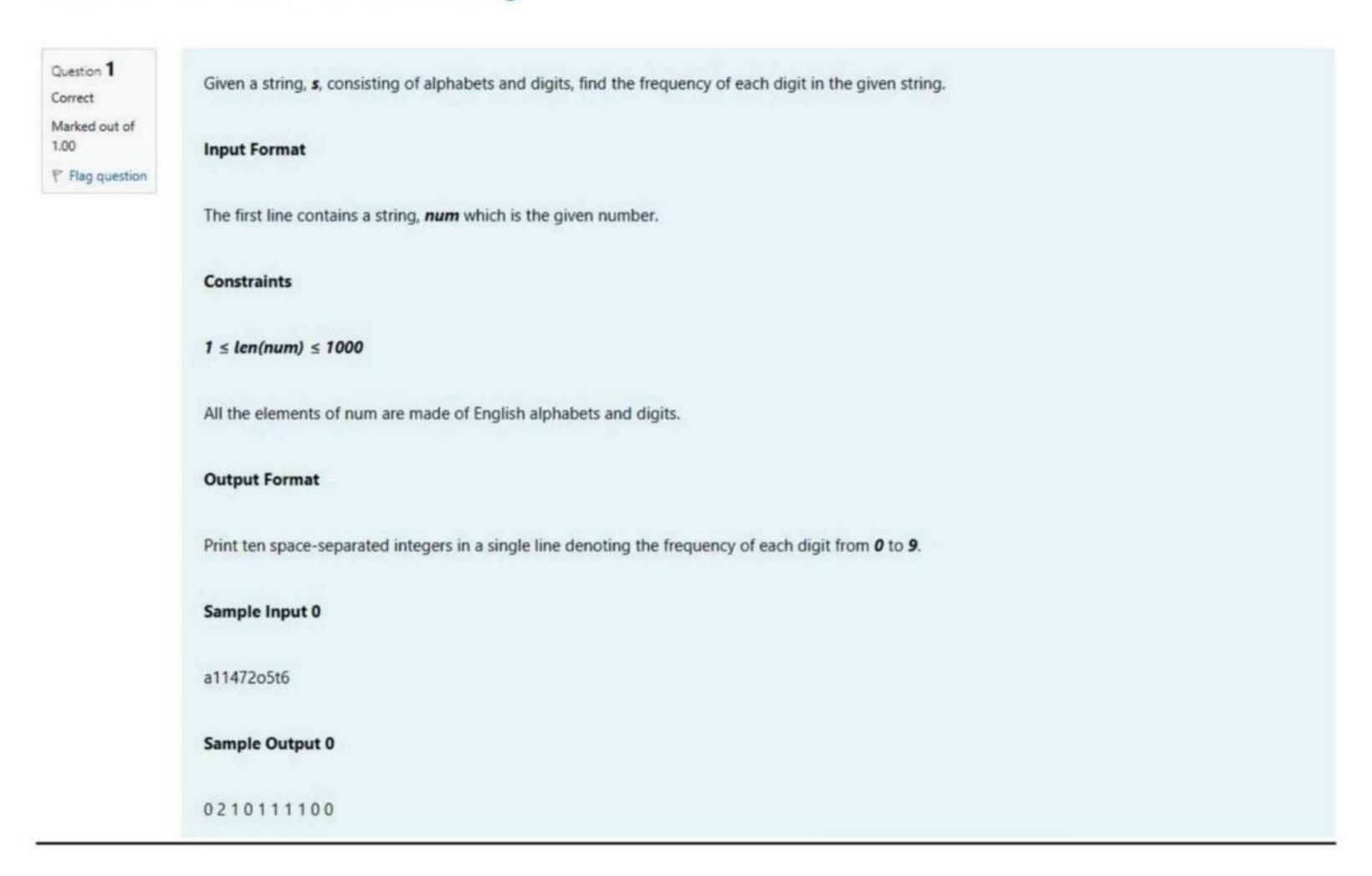
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Week-10-Character Arrays and Strings

Week-10-01-Practice Session-Coding



Source code

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

```
#include<stdio.h>
   int main(){
        char str[1000];
4
        char num[10]="0123456789";
        scanf("%s",str);
6
        for(int i=0;i<=9;i++){
7 +
            int count=0;
8
            for(int j=0;str[j]!='\0';j++){
9 +
                if(str[j]==num[i]){
10 +
11
                    count++;
12
13
            printf("%d ",count);
14
15
        return 0;
16
17
```

Result

	Input	E	хр	ec	te	d						G	ot									
~	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	~
~	1v888861256338ar@ekk	1	1	1	2	0	1	2	0	5	0	1	1	1	2	0	1	2	0	5	0	~

Correct

Marked out of 1.00

P 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:

 $1 \le T \le 10$

 $1 \le length of string \le 10^5$

Source code

Answer: (penalty regime: 0 %)

```
#include<stdio.h>
 2
  v int main(){
 4
        int t;
        char str[1000], vowels[10] = "AEIOUaeiou";
 5
 6
        scanf("%d",&t);
 8 +
        while(t--){
            int count=0;
 9
            scanf("%s", str);
10
            for(int i=0;i<=9;i++){
11 *
                for(int j=0;str[j]!='\0';j++){
12 *
13 v
                     if(vowels[i]==str[j]){
14
                         count++;
15
16
17
            printf("%d\n",count);
18
19
20
        return 0;
21
```

Result

	Input	Expected	Got	
~	2	2	2	~
	nBBZLaosnm JHkIsnZtTL	1	1	
~	2	2	2	~
	nBBZLaosnm JHkIsnZtTL	1	1	

Passed all tests! <

Question 3

Correct

Marked out of 1.00

P 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

 $1 \leq len(s) \leq 1000$

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.

Source code

Answer: (penalty regime: 0 %)

```
#include<stdio.h>
    #include<string.h>
 3
4 v int main(){
 5
        char s[1000];
 6
        scanf("%[^\n]s",s);
 7 +
        for(int i=0;s[i]!='\0';i++){
            if(s[i]==' '){
8 +
9
                printf("\n");
10
            else{
11 +
12
                printf("%c",s[i]);
13
14
15
        return 0;
16
```

Result

	Input	Expected	Got	
~	This is C	This is C	This is C	~
~	Learning C is fun	Learning C is fun	Learning C is fun	~

Question 4

Correct

Marked out of 1.00

F 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 \boldsymbol{a} and \boldsymbol{b} respectively.

In the second line print the string produced by concatenating \boldsymbol{a} and \boldsymbol{b} (\boldsymbol{a} + \boldsymbol{b}).

In the third line print two strings separated by a space, a' and b' are the same as a and b, respectively, except that their first characters are swapped.

Sample Input

abcd

ef

Sample Output

42

abcdef

ebcd af

Explanation

a = "abcd"

b = "ef"

|a| = 4

|b| = 2

a + b = "abcdef"

a' = "ebcd"

b' = "af"

Activ

Source code

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

```
#include<stdio.h>
    #include<string.h>
 4 - int main(){
        char a[100],b[100];
 5
        scanf("%s",a);
6
        scanf("%s",b);
        printf("%ld %ld\n", strlen(a), strlen(b));
9
        char t[100];
10
        for(int i=0;a[i]!='\0';i++){
11 +
12
            t[i]=a[i];
13
        printf("%s\n",strcat(a,b));
14
15
        char temp1=t[0];
16
        char temp2=b[0];
17
        t[0]=temp2;
        b[0]=temp1;
18
19
        printf("%s %s",t,b);
20
21
        return 0;
22
```

Result

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