Week 10

the given string:

1 occurs two times.

2, 4, 5, 6 and *7* occur one time each.

ne remaining digits *0, 3, 8* and *9* don't occur at all.

nswer: (penalty regime: 0 %)

```c
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 }
```

	Input	Expected	Got	
✓	a11472o5t6	0 2 1 0 1 1 1 1 0 0	0 2 1 0 1 1 1 1 0 0	✓
✓	1w4n88j12n1	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! ✓

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

Answer: (penalty regime: 0 %)

```c
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  }
```

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

Passed all tests! ✓

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 %)

```c
#include <stdio.h>
int main()
{
    char s[10000];
    scanf("%[^\n]s",s);
    for (int i=0; s[i]!='\0';i++)
    {
        if (s[i]!=' ')
        printf("%c",s[i]);
        else
        printf("\n");
    }
}
```

	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! ✓

Explanation

a = "abcd"

b = "ef"

|a| = 4

|b| = 2

a + b = "abcdef"

a' = "ebcd"

b' = "af"

Answer: (penalty regime: 0 %)

```c
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%s\n",str1,str2);
21     t=str1[0];
22     str1[0]=str2[0];
23     str2[0]=t;
24     printf("%s %s",str1,str2);
25 }
```

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