BASKAR A 2024-CSE

Week-11-String Handling Functions

Week-11-Practice Session-Coding

Question 1
Correct
Marked out of 1.00
F 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

$1 \le len(num) \le 1000$

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 $\boldsymbol{0}$ to $\boldsymbol{9}$.

```
Answer: (penalty regime: 0 %)
        #include <stdio.h>
    2
        #include <string.h>
    3
        int main()
    4 ,
            char str1[1000000], str2[1000000];
    5
            int flag = 1;
scanf("%s",str1);
scanf("%s",str2);
    6
    7
    8
            int a = strlen(str1);
    9
   10
            int b = strlen(str2);
  11
            if(a==b)
  12
  13 ,
            {
                 for(int i=a-1; i>=0; i--)
  14
  15 ,
                      while(str1[i]!=str2[i])
  16
  17
  18
                          for(int j=0; j<=i; j++)
  19 +
  20
                               if(str1[j]<'z')
  21
                               str1[j]++;
  22
                               else
   23 4
   24
                                    flag = 0;
   25
                                   break;
   26
                               if(flag==0)
   27
   28
                               break;
   29
                          }
   30
                      }
   31
   32
            }
            else
  33
            flag = 0;
   34
  35
            if(flag == 0)
  36
            printf("NO");
  37
  38
            else
  39
            printf("YES");
  40
            return 0;
       1 }
  41
```

Result

	Input	Expected	Got	
~	abaca cdbda	YES	YES	~
Passed	d all test	ts! 🗸		

Question **2**Correct
Marked out of 1.00

F Flag question

Danny has a possible list of passwords of Manny's facebook account. All passwords length is odd. But Danny knows that Manny is a big fan of palindromes. So, his password and reverse of his password both should be in the list.

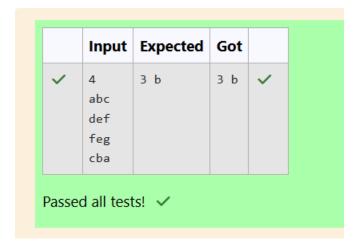
You have to print the length of Manny's password and it's middle character.

Note: The solution will be unique.

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

```
#include <stdio.h>
    #include <string.h>
 3
    int main()
 4 1
 5
         int n,flag=0;
         char temp;
 6
         scanf("%d",&n);
 7
         char words[n][14];
 8
 9
         for(int i=0;i<n;i++)</pre>
         scanf("%s",words[i]);
10
11
         char reverse[14];
12
         for(int i=0;i<n-1;i++)</pre>
13 •
14
             strcpy(reverse,words[i]);
15
             int size = strlen(reverse);
16
             for(int k=0; k<size/2; k++)</pre>
17
18 ,
                  temp = reverse[k];
19
                  reverse[k] = reverse [size-k-1];
20
21
                  reverse[size-k-1]= temp;
22
             for(int j=i+1; j<n; j++)</pre>
23
24 1
25
                  if(strcmp(reverse,words[j])==0)
26 1
27
                      flag = 1;
28
                      break;
29
30
             if(flag == 1)
31
32
             break;
33
         int len = strlen(reverse);
34
         printf("%d %c",len, reverse[len/2]);
35
         return 0;
36
```

Result



Question **3**Correct
Marked out of 1.00

Flag question

Joey loves to eat Pizza. But he is worried as the quality of pizza made by most of the restaurants is deteriorating. The last few pizzas ordered by him did not taste good: (. Joey is feeling extremely hungry and wants to eat pizza. But he is confused about the restaurant from where he should order. As always he asks Chandler for help.

Chandler suggests that Joey should give each restaurant some points, and then choose the restaurant having **maximum points**. If more than one restaurant has same points, Joey can choose the one with **lexicographically smallest** name.

Joey has assigned points to all the restaurants, but can't figure out which restaurant satisfies Chandler's criteria. Can you help him out?

Input:

First line has N, the total number of restaurants.

Next N lines contain Name of Restaurant and Points awarded by Joey, separated by a space. Restaurant name has **no spaces**, all lowercase letters and will not be more than 20 characters.

Output:

Print the name of the restaurant that Joey should choose.

Answer: (penalty regime: 0 %)

```
#include <stdio.h>
 2
    #include <string.h>
    int main()
 3
 4 ▼
    {
 5
         int n;
 6
         scanf("%d",&n);
 7
         char res[n][21];
 8
         int rate[n];
9
         for(int i=0;i<n;i++)</pre>
10 •
             scanf("%s",res[i]);
11
12
             scanf("%d", &rate[i]);
13
         int max = rate[0];
14
15
         char ans[20];
         strcpy(ans,res[0]);
16
17
         for(int i=1;i<n;i++)</pre>
18 •
19
             if(rate[i]>max)
20 •
21
                 max = rate[i];
22
                 strcpy(ans,res[i]);
23
             else if(rate[i]==max)
24
25 •
                 if(strcmp(res[i],ans)<0)</pre>
26
27
                 strcpy(ans,res[i]);
28
29
30
         printf("%s",ans);
         return 0;
31
32
```

Result

Input	Expected	GOL	
3 Pizzeria 108 Dominos 145 Pizzapizza 49	Dominos	Dominos	~
	3 Pizzeria 108 Dominos 145	3 Dominos Pizzeria 108 Dominos 145	3 Dominos Dominos Pizzeria 108 Dominos 145

Question **4**Correct
Marked out of 1.00

▼ Flag question

These days Bechan Chacha is depressed because his crush gave him list of mobile number some of them are valid and some of them are invalid. Bechan Chacha has special power that he can pick his crush number only if he has valid set of mobile numbers. Help him to determine the valid numbers.

You are given a string "S" and you have to determine whether it is Valid mobile number or not. Mobile number is valid only if it is of length 10 , consists of numeric values and it shouldn't have prefix zeroes.

Input:

First line of input is T representing total number of test cases.

Next T line each representing "S" as described in in problem statement.

Output:

Print "YES" if it is valid mobile number else print "NO".

Note: Quotes are for clarity.

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

```
#include <stdio.h>
    #include <string.h>
 2
 3
    int main()
 4 ,
 5
         int t;
 6
         scanf("%d",&t);
 7
         while(t--)
 8
         {
9
             int flag = 1;
10
             char s[100000];
             scanf("%s",s);
11
12
             int k = strlen(s);
13
             if(k == 10)
14
15 •
                 for(int i=0;i<10;i++)</pre>
16
17 •
                 {
                     if(s[0]=='0')
18
19 •
                     {
20
                          flag = 0;
21
                          break;
22
                     if(s[i]<'0'||s[i]>'9')
23
24 •
                          flag =0;
25
26
                          break;
27
28
29
             else
30
             flag = 0;
31
32
             if(flag == 1)
             printf("YES\n");
33
             else
34
             printf("NO\n");
35
```

Result

	Input	Expected	Got	
~	3	YES	YES	~
	1234567890	NO	NO	
	0123456789	NO	NO	
	0123456.87			

Passed all tests! <