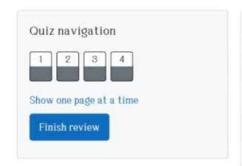
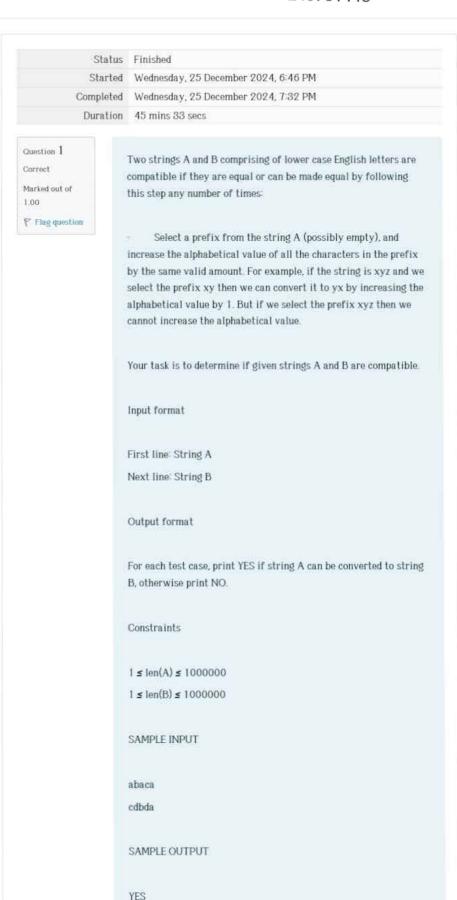
GE23131-Programming Using C-2024

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Explanation

cdbda in the next move.

The string abaca can be converted to bcbda in one move and to

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

	Input	Expected	GOL	
1	abaca cdbda	YES	YES	~

Ouestion 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.

INPUT

38

The first line of input contains the integer N, the number of possible passwords.

Each of the following N lines contains a single word, its length being an odd number greater than 2 and lesser than 14. All characters are lowercase letters of the English alphabet.

OUTPUT

The first and only line of output must contain the length of the correct password and its central letter.

CONSTRAINTS

1≤N≤100

```
SAMPLE INPUT

4
abc
def
feg
cba
SAMPLE OUTPUT
```

Answer: (penalty regime: 0 %)

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



Ouestion 3
Correct
Marked out of 1.00
P Flag question

loey 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 (. loey 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.

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

Output:

Print the name of the restaurant that loey should choose.

Constraints:

```
1 <= N <= 10<sup>5</sup>
1 <= Points <= 10<sup>6</sup>
```

SAMPLE INPUT

3

Pizzeria 108

Dominos 145

Pizzapizza 49

SAMPLE OUTPUT

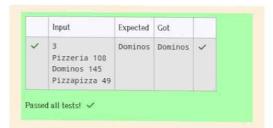
Dominos

Explanation

Dominos has maximum points.

Answer: (penalty regime: 0 %)

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



Ouestion 4 Correct Marked out of 1.00 F 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. Constraints: 1<= T <= 10³ sum of string length <= 10⁵ SAMPLE INPUT 1234567890

3

0123456789

0123456.87

SAMPLE OUTPUT

YES

NO

NO

Answer: (penalty regime: 0 %)

```
1 #include<stdio.h>
2 #include<string.h>
 3
      int main()
            int t;
scanf("%d",&t);
while(t--)
 5
 6
7
                 int flag=1;
char s[1000000];
scanf("%s",s);
int k=strlen(s);
 9
10
11
12
13
14
15
                  if(k==10)
                        for(int i=0;i<10;i++)
16
                              if(s[0]=='0')
17
18
                                    flag=0;
break;
19
20
21
22
                              if(s[i]<'0'||s[i]>'9')
24
                                    flag=0;
                                    break;
26
27
                       }
28
29
                  else
30
31
32
                 flag=0;
if(flag==1)
printf("YES\n");
33
34
35
                  printf("NO\n");
36
      }
37
```

```
Expected Got
Input
           YES
                   YES
1234567890 NO
                   NO
0123456789 NO
                   NO
0123456.87
```

Passed all tests! 🗸