REC-CIS

GE23131-Programming Using C-2024

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Started	Monday, 23 December 2024, 8:31 PM
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Duration	22 mins 22 secs

Question **1**

Correct

Marked out of 1.00

Flag question

Two strings ***A*** and ***B*** comprising of lower case English letters are compatible if they are equal number of times:

· Select a prefix from the string ***A*** (possibly empty), and increase the alphabetical value o valid amount. For example, if the string is ***xyz*** and we select the prefix ***xy*** then we can conver 1. But if we select the prefix ***xyz*** then we cannot increase the alphabetical value.

Your task is to determine if given strings ***A*** and ***B*** are compatible.

Input format

First line: String ***A***

Next line: String ***B***

Output format

For each test case, print ***YES*** if string ***A*** can be converted to string ***B***, otherwise print ***NO***.

Constraints

1 ≤ len(A) ≤ 1000000

1 ≤ len(B) ≤ 1000000

SAMPLE INPUT

abaca

cdbda

SAMPLE OUTPUT

YES

Explanation

The string ***abaca*** can be converted to ***bcbda*** in one move and to ***cdbda*** in the next move.

Answer: (penalty regime: 0 %)

```
#include<stdio.h>
#include<string.h>

int main()
{
    char str1[1000000], str2[1000000];
    int flag=1;
    scanf("%s",str1);
```

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```
    if(a==b)
    {
        for(int i=a-1;i>=0;i--)
        {
            while(str1[i]!=str2[i])
            {
                for(int j=0;j<=i;j++)
                {
                    if(str1[j]<'z')
                    str1[j]++;
                    else
                    {
                        flag=0;
                        break;
                    }
                    if(flag==0)
                    break;
                }
            }
        }
    }
    else
    flag=0;

    if(flag==0)
    printf("NO");
    else
    printf("YES");
    return 0;
}
```

	Input	Expected	Got	
	abaca cdbda	YES	YES	

Passed all tests!

Question 2

Correct

Marked out of 1.00

Flag question

Danny has a possible list of passwords of Manny's facebook account. All passwords length is 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

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 lowercase letters of the English alphabet.

OUTPUT

The first and only line of output must contain the length of the correct password and its cent

CONSTRAINTS

1 ≤ N ≤ 100

SAMPLE INPUT

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abc

def

feg

cba

SAMPLE OUTPUT

3 b

Answer: (penalty regime: 0 %)

```c
#include<stdio.h>
#include<string.h>

int main()
{
    int n,flag=0;
    char temp;
    scanf("%d",&n);
    char words[n][14];
    for(int i=0;i<n;i++)
    scanf("%s",words[i]);
    char reverse[14];
    for(int i=0;i<n-1;i++)
    {
        strcpy(reverse,words[i]);
        int size=strlen(reverse);

        for(int k=0;k<size/2;k++)
        {
            temp=reverse[k];
            reverse[k]=reverse[size-k-1];
            reverse[size-k-1]=temp;
        }
        for(int j=i+1;j<n;j++)
        {
            if(strcmp(reverse,words[j])==0)
            {
                flag=1;
                break;
            }
        }
        if(flag==1)
        break;
    }
    int len=strlen(reverse);
    printf("%d %c ",len,reverse[len/2]);
    return 0;
}
```

	Input	Expected	Got	
	4 abc def feg cba	3 b	3 b	

Passed all tests!

Question **3**

Correct

Marked out of 1.00

Joey loves to eat Pizza. But he is worried as the quality of pizza made by most of the restaura
by him did not taste good :(. Joey is feeling extremely hungry and wants to eat pizza. But he i
should order. As always he asks Chandler for help.

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one restaurant has same points, Joey can choose the one with **lexicographically smallest** na

Joey has assigned points to all the restaurants, but can't figure out which restaurant satisfies

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. letters and will not be more than 20 characters.

Output:

Print the name of the restaurant that Joey should choose.

Constraints:

$1 <= N <= 10^5$

$1 <= Points <= 10^6$

SAMPLE INPUT

3

Pizzeria 108

Dominos 145

Pizzapizza 49

SAMPLE OUTPUT

Dominos

Explanation

Dominos has maximum points.

Answer: (penalty regime: 0 %)

```c
#include<stdio.h>
#include<string.h>
int main()
{
    int n;
    scanf("%d",&n);
    char res[n][21];
    int rate[n];
    for(int i=0;i<n;i++)
    {
        scanf("%s",res[i]);
        scanf("%d",&rate[i]);
    }
    int max=rate[0];
    char ans[20];
    strcpy(ans,res[0]);
    for(int i=1;i<n;i++)
    {
        if(rate[i]>max)
        {
            max=rate[i];
            strcpy(ans,res[i]);
        }
        else if(rate[i]==max)
        {
```

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```
    }
    printf("%s",ans);
    return 0;
}
```

	Input	Expected	Got	
	3 Pizzeria 108 Dominos 145 Pizzapizza 49	Dominos	Dominos	

Passed all tests!

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 so
invalid. Bechan Chacha has special power that he can pick his crush number only if he has val
the valid numbers.

You are given a string "S" and you have to determine whether it is Valid mobile number or no
, 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:

$1 <= T <= 10^3$

sum of string length $<= 10^5$

SAMPLE INPUT

3

1234567890

0123456789

0123456.87

SAMPLE OUTPUT

YES

NO

NO

Answer: (penalty regime: 0 %)

```
#include<stdio.h>
#include<string.h>
int main()
```

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```c
    while(t--)
    {
        int flag=1;
        char s[100000];
        scanf("%s",s);
        int k=strlen(s);

        if(k==10)
        {
            for(int i=0;i<10;i++)
            {
                if(s[0]=='0')
                {
                    flag=0;
                    break;
                }
                if(s[i]<'0'||s[i]>'9')
                {
                    flag=0;
                    break;
                }
            }
        }
        else
        flag=0;
        if(flag==1)
        printf("YES\n");
        else
        printf("NO\n");
    }
    return 0;
}
```

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

Passed all tests!