Programming Using C

Week-11 Coding

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Question 1
Correct
Marked out of 1.00
F Flag question

Two strings A and B comprising of lower case English letters are compatible if they are equal or can be made equal by following this step any number of times:

Select a prefix from the string A (possibly empty), and increase the alphabetical value of all the characters in the prefix by the same valid amount. For example, if the string is xyz and we select the prefix xy then we can convert it to yx by increasing the alphabetical value by 1. But if we select the prefix xyz then we cannot increase the alphabetical value.

Your task is to determine if given strings \boldsymbol{A} and \boldsymbol{B} are compatible.

Inputformat

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

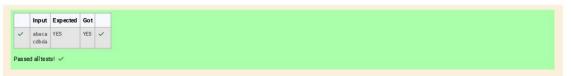
SAMPLE OUTPUT

YES

Explanation

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

```
### print | pr
```



Question 2
Correct
Marked out of 1.00
PFlag 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

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

Each of the following N lines contains a singleword, 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.

CONICTONINT

1≤N≤100

SAMPLE INPUT

4 abc def feg cba

SAMPLE OUTPUT

3 b

```
#includestring.h>
in main()

in n, flag=0;
char temp;
char words[n][24];
for (fini =0,10; 1++)

is car("ms",words[1]);
}
char reverse[14];
for reverse[14];
for (fini =0,10; 1-1; 1++)

is tropy(reverse,words[1]);
in time=strlen(reverse);
for(ini +0,10; 1-1; 1++)

{
    temp-reverse[1];
    reverse[1];
    reverse[1];
```

```
Input Expected Got

4 3 b 3 b ✓
abc
def
feg
cba

Passed alltests! ✓
```

Question 3
Correct
Markedout of 1.00
F Ragquestion

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

Chandler suggests that Josy 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?

Inp ut

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.

Constraint

1 <= N <= 10⁵ 1 <= Points <= 10⁶

SAMPLE INPUT

Pizzeria 108

Dominos 145 Pizzapizza 49

SAMPLE OUTPUT

Explanation

Dominos has maximum points.

```
Input Expected Got

3 Dominos Dominos Dominos V
Pizzeria 186
Dominos 145
Pizzapizza 49
```

Passed all tests! 🗸

These days Bechan Chach a is degree sed because his crush gave him list of mobile number some of them are wald 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 und some of

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.

hput

First line of input is Trepresenting total number of test cases.

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

Output:

 $\label{eq:Print YES" fit is valid mobile number else print "NO".} \\ Note: Quotes are for clarity.$

1<= T <= 10³ sum of string length <= 10⁵

SAMPLE INPUT

1234567890

0123456789 012345687

SAMPLE OUTPUT

YES NO NO

```
int t;
scanf("%d",&t);
while(t--)
{
                              int flag=1;
char s[10000];
scanf("%s",s);
int k=strlen(s);
if(k==10)
{
    for(int i=0;i<10;i++)
    (
    if(s[0]=='0')</pre>
                                      for(int 1=0;1<0;1+)
{
    if(s[0]==0')
        flag=0;
        break;
    }
    if(s[1]<'0'||s[1]>'0')
    flag=0;
    break;
}
                                 }
else
flag=0;
if(flag==1)
{
                                        printf("YES\n");
                                }
else
printf("NO\n");
```

```
Input Expected Got
3 YES YES \
123450799E NO NO NO 012345678E NO NO NO 0123456.87
```