Correct
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Flag question
Question text
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 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
$1 \le len(B) \le 1000000$
SAMPLE INPUT
abaca

Question ${\bf 1}$

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);
scanf("%s",str2);
int a=strlen(str1);
int b=strlen(str2);
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	YES	YES	
cdbda			

Passed all tests!

Question 2

Correct

Marked out of 1.00

Flag question

Question text

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 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

 $1 \le N \le 100$

SAMPLE INPUT

4

abc

def

feg

cba

SAMPLE OUTPUT

3 b

```
Answer:(penalty regime: 0 %)
#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	3 b	3 b
abc		
def		
feg		
cba		

Passed all tests!

Question 3

Correct

Marked out of 1.00

Flag question

Question text

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.

Constraints:

1 <= N <= 10⁵

1 <= Points <= 10⁶

SAMPLE INPUT

3

Pizzeria 108

Dominos 145

SAMPLE OUTPUT

Dominos

Explanation

Dominos has maximum points.

```
Answer:(penalty regime: 0 %)
#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)
{
  if(strcmp(res[i],ans)<0)
  strcpy(ans,res[i]);
}
printf("%s",ans);
}</pre>
```

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

Passed all tests!

Question 4

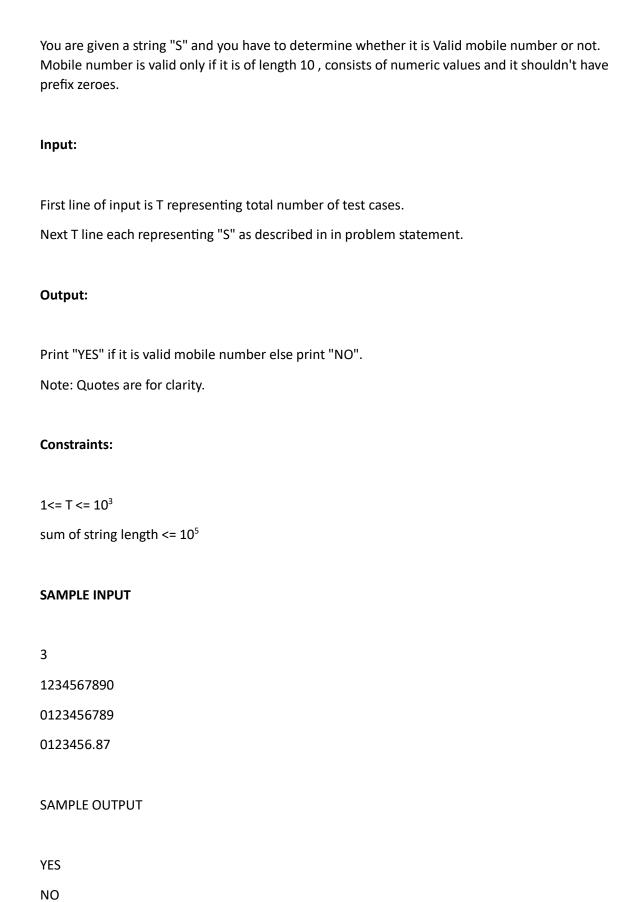
Correct

Marked out of 1.00

Flag question

Question text

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.



NO

```
Answer:(penalty regime: 0 %)
#include<stdio.h>
#include<string.h>
int main()
{
int t;
scanf("%d",&t);
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	YES	YES	
1234567890	NO	NO	
0123456789	NO	NO	
0123456.87			

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