St	tatus	Finished
Sta	arted	Thursday, 26 December 2024, 11:07 PM
Compl	leted	Thursday, 26 December 2024, 11:55 PM
Dura	ation	47 mins 46 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 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 $1 \le len(A) \le 1000000$ $1 \le len(B) \le 1000000$ 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.

```
#include<stdio.h>
    #include<string.h>
    int main()
 4
        char str1[1000000],str2[1000000];
 5
        int flag=1;
 6
        scanf("%s",str1);
        scanf("%s",str2);
        int a=strlen(str1);
        int b=strlen(str2);
10
11
        if(a==b)
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++)</pre>
17
18 ,
19
                         if(str1[j]<'z')
20
                         str1[j]++;
21
                         else
22 1
23
                              flag=0;
                              break;
24
25
26
                         if(flag==0)
27
                         break;
28
29
30
31
32
        else
33
        flag=0;
```



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

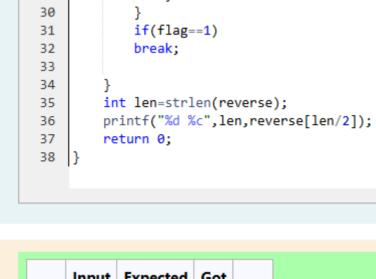
Question 2 Correct Marked out of	Danny has a possible list of passwords of Manny's facebook account. All passwords length is odd. But Danny knows that Manny is a big fan of palindromes. So, his password and reverse of his password both should be in the list.
1.00 Flag question	You have to print the length 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

SAMPLE INPUT abc def feg cba **SAMPLE OUTPUT** 3 b

 $1 \le N \le 100$

Answer: (penalty regime: 0 %)

```
#include<stdio.h>
    #include<string.h>
    int main()
 4 ,
         int n,flag=0;
         char temp;
         scanf("%d",&n);
         char words[n][14];
        for(int i=0;i<n;i++)</pre>
10
         scanf("%s",words[i]);
         char reverse[14];
11
         for(int i=0;i<n-1;i++)</pre>
12
13 v
14
             strcpy(reverse,words[i]);
15
             int size=strlen(reverse);
16
17
             for(int k=0;k<size/2;k++)</pre>
18 •
                 temp=reverse[k];
19
20
                 reverse[k]=reverse[size-k-1];
21
                 reverse[size-k-1]=temp;
22
23
             for(int j=i+1;j<n;j++)</pre>
24 v
25
                 if(strcmp(reverse,words[j])==0)
26 •
27
                      flag=1;
28
                      break;
```



29

✓

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

Passed all tests! ✓

Question 3 Correct Marked out of 1.00 Flag guestion

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:

Output:

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.

Constraints: $1 <= N <= 10^5$ 1 <= Points <= 10⁶ SAMPLE INPUT

Print the name of the restaurant that Joey should choose.

Pizzeria 108 Dominos 145

Pizzapizza 49

SAMPLE OUTPUT

Dominos

Explanation

Dominos has maximum points.

Answer: (penalty regime: 0 %) 1 #include<stdio.h>

```
#include(string.h)
int main()

4 * {
    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]);
    }
}</pre>
```

int max=rate[0];
char ans[20];

strcpy(ans,res[0]);

for(int i=1;i<n;i++)</pre>

if(rate[i]>max)

max=rate[i];

strcpy(ans,res[i]);

14

15

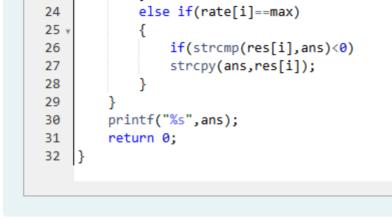
16 17

18 ₁

20 v 21

22

23

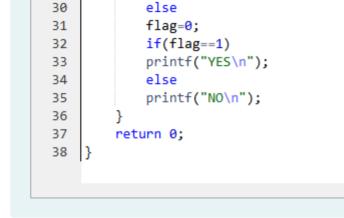


	Input	Expected	Got	
~	3	Dominos	Dominos	~
	Pizzeria 108			
	Dominos 145			
	Pizzapizza 49			

Passed all tests! 🗸

Question 4 Correct Marked out of 1.00	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.
⟨► Flag question	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:

```
#include<stdio.h>
    #include<string.h>
    int main()
 4 * {
        int t;
 5
 6
        scanf("%d",&t);
        while(t--)
 8 ,
 9
            int flag=1;
10
            char s[100000];
11
            scanf("%s",s);
12
            int k=strlen(s);
13
14
            if(k==10)
15 *
16
                 for(int i=0;i<10;i++)</pre>
17 v
18
                     if(s[0]=='0')
19 •
20
                         flag=0;
21
                         break;
22
23
                     if(s[i]<'0'||s[i]>'9')
24 v
25
                         flag=0;
26
                         break;
27
28
29
```



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

Passed all tests! ✓