Question 1	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:
farked out of .00 Flag question	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
	$1 \le len(A) \le 1000000$
	$1 \leq len(B) \leq 1000000$
	SAMPLE INPUT
	abaca
	cdbda
	SAMPLE OUTPUT
	YES
	Explanation
	The string <i>abaca</i> can be converted to <i>bcbda</i> in one move and to <i>cdbda</i> in the next move.

Answer: (penalty regime: 0 %)

```
1 #include<stdio.h>
 2
   #include<string.h>
 4 v int main(){
        char str1[1000000],str2[1000000];
 5
 6
        int flag=1;
 7
        scanf("%s",str1);
 8
        scanf("%s",str2);
        int a=strlen(str1);
 9
10
        int b=strlen(str2);
11 v
        if(a==b){
12 +
            for(int i=a-1;i>=0;i--){
13 +
                while(str1[i]!=str2[i]){
14 .
                    for(int j=0;j<=i;j++){
15
                       if(str1[j]<'z')
16
                       str1[j]++;
17 ,
                       else{
                           flag=0;
18
19
                           break;
20
                       if(flag==0)
21
22
                       break;
23
24
25
26
27
        else
        flag=0;
28
        if(flag==0)
29
30
        printf("NO");
        else
31
32
        printf("YES");
33
        return 0;
34 }
```

	Input	Expected	Got	
~	abaca cdbda	YES	YES	~

Passed all tests! <

Question 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

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

3 b

```
Answer: (penalty regime: 0 %)
    1 #include<stdio.h>
      #include<string.h>
    3 v 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];
   10
   11 .
           for(int i=0;i<n-1;i++){
               strcpy(reverse,words[i]);
   12
               int size=strlen(reverse);
   13
   14
               for(int k=0;k<size/2;k++){
   15
                   temp=reverse[k];
   16
                   reverse[k]=reverse[size-k-1];
                   reverse[size-k-1]=temp;
   17
   18
   19
               for(int j=i+1;j<n;j++){</pre>
                   if(strcmp(reverse,words[j])==0){
   20 .
   21
                       flag=1;
   22
                        break;
   23
   24
   25
               if(flag==1)
   26
               break;
   27
   28
           int len=strlen(reverse);
   29
           printf("%d %c",len,reverse[len/2]);
```

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

return 0;

Passed all tests! <

30

31 }

uestion 3	
orrect	Joey lo
arked out of	is confu
ag question	Chandle
	Joey ha
	Input:
	First lin
	Next N
	Output
	Print th
	Constr
	1 <= N 1 <= P(
	1 <= N
	1 <= N 1 <= P(
	1 <= N 1 <= P(
	1 <= N 1 <= Po SAMPL 3 Pizzeria
	1 <= N 1 <= Po SAMPL
	1 <= N 1 <= Po SAMPL 3 Pizzeria Domino

ives 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 used about the restaurant from where he should order. As always he asks Chandler for help.

ler 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 st name.

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

ne has N, the total number of restaurants.

I 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.

ne name of the restaurant that Joey should choose.

aints:

<= 10⁵

oints <= 10⁶

LE INPUT

108

os 145

izza 49

LE OUTPUT

Dominos

Explanation

Answer: (penalty regime: 0 %)

```
#include<stdio.h>
    #include<string.h>
 3 + int main(){
        int n;
 4
 5
        scanf("%d",&n);
        char res[n][21];
 6
        int rate[n];
 8
        for(int i=0;i<n;i++){
            scanf("%s",res[i]);
            scanf("%d",&rate[i]);
10
11
12
        int max=rate[0];
13
        char ans[20];
14
        strcpy(ans,res[0]);
15
        for(int i=1;i<n;i++){
            if(rate[i]>max){
16
                max=rate[i];
17
                strcpy(ans,res[i]);
18
19
20
        printf("%s",ans);
21
22
        return 0;
23
```

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

Passed all tests! <

Question 4 Correct Marked out of 1.00

P 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 $<= 10^5$

SAMPLE INPUT

3

1234567890

0123456789

0123456.87

SAMPLE OUTPUT

YES

NO

NO

Answer: (penalty regime: 0 %)

```
#include<stdio.h>
   #include<string.h>
 3 v int main(){
        int t:
 4
        scanf("%d",&t);
 5
 6 ,
        while(t--){
            int flag=1;
            char s[100000];
 8
            scanf("%s",s);
 9
10
            int k=strlen(s);
11 .
            if(k==10){
12 ,
                for(int i=0;i<10;i++){
13 ,
                    if(s[0]=='0'){
14
                        flag=0;
15
                        break;
16
17 ,
                    if(s[i]<'0'||s[i]>'9'){
18
                        flag=0;
19
                        break;
20
21
22
23
            else
24
            flag=0;
25
            if(flag==1)
26
            printf("YES\n");
27
            else
28
            printf("NO\n");
29
30
        return 0;
31 }
```

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

Passed all tests! <