S	Status	Finished
St	arted	Monday, 23 December 2024, 5:33 PM
Comp	oleted	Sunday, 22 December 2024, 5:17 PM
Dur	ration	1 day
Question <b>1</b> Correct Marked out of 1.00		Two strings <b>A</b> and <b>B</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:
<b>№</b> Flag question		Select a prefix from the string <b>A</b> (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 <b>xyz</b> and we select the prefix <b>xy</b> then we can convert it to <b>yx</b> by increasing the alphabetical value by 1. But if we select the prefix <b>xyz</b> then we cannot increase the alphabetical value.
		Your task is to determine if given strings <b>A</b> and <b>B</b> are compatible.
		Input format
		First line: String <b>A</b>
		Next line: String <b>B</b>
		Output format

Output format For each test case, print **YES** if string **A** can be converted to string **B**, otherwise print **NO**. Constraints  $1 \leq len(A) \leq 1000000$  $1 \leq len(B) \leq 1000000$ **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. The string *abaca* can be converted to *bcbaa* in one move and to *cabaa* in the next move.

## **Answer:** (penalty regime: 0 %)

30

<pre>#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&gt;=0;i)  // while(str1[i]!=str2[i]) // while(str1[i]!=str2[i]) // for(int j=0;j&lt;=i;j++) // end // if(str1[j]&lt;'z')</pre>
<pre>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&gt;=0;i)  {     while(str1[i]!=str2[i])      for(int j=0;j&lt;=i;j++) }</pre>
<pre>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&gt;=0;i) {     while(str1[i]!=str2[i]) }  for(int j=0;j&lt;=i;j++) } </pre>
<pre>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&gt;=0;i)  {     while(str1[i]!=str2[i])     {     for(int j=0;j&lt;=i;j++)     { }</pre>
<pre>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&gt;=0;i)</pre>
<pre>7</pre>
<pre>8</pre>
<pre>9    int a=strlen(str1); 10    int b=strlen(str2); 11    if(a==b)  12    { 14        for(int i=a-1;i&gt;=0;i) 15        {             while(str1[i]!=str2[i]) 17        {                 for(int j=0;j&lt;=i;j++) 19             {</pre>
<pre>int b=strlen(str2); if(a==b)  {     for(int i=a-1;i&gt;=0;i)     {         while(str1[i]!=str2[i])         {             for(int j=0;j&lt;=i;j++)</pre>
<pre>if(a==b)  if(a==b)  for(int i=a-1;i&gt;=0;i)  for(int i=a-1;i&gt;=0;i)  while(str1[i]!=str2[i])  for(int j=0;j&lt;=i;j++)  for(int j=0;j&lt;=i;j++)  for(int j=0;j&lt;=i;j++)  for(int j=0;j&lt;=i;j++)</pre>
12 13 v { 14
13 v { 14
<pre>for(int i=a-1;i&gt;=0;i) {     while(str1[i]!=str2[i])     {         for(int j=0;j&lt;=i;j++)         {</pre>
15 v { 16   while(str1[i]!=str2[i]) 17 v { 18   for(int j=0;j<=i;j++) 19 v {
<pre>16 17 v 18 19 v 4</pre> <pre>while(str1[i]!=str2[i]) { for(int j=0;j&lt;=i;j++) {</pre>
17 v 18 for(int j=0;j<=i;j++) 19 v {
18 19 v { for(int j=0;j<=i;j++) {
19 🔻 [
20   if(str1[j]<'z')
21 str1[j]++;
22 else
23 v {
24 flag=0;
25 break;
26 }
27 if(flag==0)
28 break;

```
29
30
31
32
        else
33
34
        flag=0;
35
        if(flag==0)
36
        printf("NO");
37
        else
38
        printf("YES");
39
40
        return 0;
41
```

		xpected		
✓ abac	a YE	ES	YES	<b>~</b>
cdbd	а			

### Question **2**

Correct

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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.

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 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 %)

```
cnar cemp;
         scanf("%d",&n);
 8
         char words[n][14];
         for(int i=0;i<n;i++)</pre>
 9
         scanf("%s",words[i]);
10
         char reverse[14];
11
         for(int i=0;i<n-1;i++)</pre>
12
13 ▽
             strcpy(reverse,words[i]);
14
             int size=strlen(reverse);
15
16
17
             for(int k=0;k<size/2;k++)</pre>
18 🔻
                 temp=reverse[k];
19
                 reverse[k]=reverse[size-k-1];
20
                 reverse[size-k-1]=temp;
21
22
23
             for(int j=i+1;j<n;j++)</pre>
24
25 ₹
                 if(strcmp(reverse,words[j])==0)
26
27 v
28
                      flag=1;
29
                      break;
30
31
             if(flag==1)
32
33
             break;
34
         int len=strlen(reverse);
35
36
         printf("%d %c ",len,reverse[len/2]);
37
         return 0;
38
```

	Input	Expected	Got	
<b>~</b>	4 abc def feg cba	3 b	3 b	<b>&gt;</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 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?

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 <b>no spaces</b> , all lowercase letters and will not be more than 20 characters.
Output:
Print the name of the restaurant that Joey should choose.
Constraints:
$1 <= N <= 10^5$
1 <= Points <= 10 <sup>6</sup>
SAMPLE INPUT
3
Pizzeria 108

```
Dominos 145
Pizzapizza 49
                                                                Close
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++)</pre>
  10 ₹
  11
              scanf("%s",res[i]);
               scanf("%d",&rate[i]);
  12
  13
```

Pizzeria 108

```
Scami ( /ου ,αrace[1]),
13
14
15
        int max=rate[0];
        char ans[20];
16
17
        strcpy(ans,res[0]);
        for(int i=1;i<n;i++)</pre>
18
19 ₹
             if(rate[i]>max)
20
21 ▼
22
                 max=rate[i];
23
                 strcpy(ans,res[i]);
24
25
26
             else if(rate[i]==max)
27 ▼
                 if(strcmp(res[i],ans)<0)</pre>
28
29
                 strcpy(ans,res[i]);
30
31
32
        printf("%s",ans);
33
        return 0;
34
```

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

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 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.

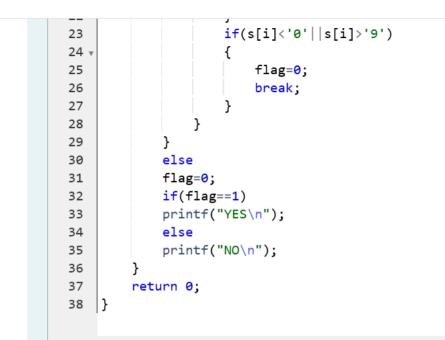
### **Constraints:**

 $1 <= T <= 10^3$ 

# **Constraints:** $1 <= T <= 10^3$ sum of string length <= 10<sup>5</sup> **SAMPLE INPUT** 3 1234567890 0123456789 0123456.87 SAMPLE OUTPUT YES NO NO **Answer:** (penalty regime: 0 %)

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

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



	Input	Expected	Got	
<b>~</b>	3	YES	YES	~
	1234567890	NO	NO	
	0123456789	NO	NO	
	0123456.87			

Passed all tests! 🗸