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.

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

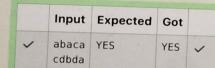
1 ≤ len(A) ≤ 1000000

1 ≤ len(B) ≤ 1000000

SAMPLE INPUT

abaca cdbda 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 $1 \le \text{len}(A) \le 1000000$ $1 \leq len(B) \leq 1000000$ **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.

```
Answer: (penalty regime: 0 %)
      #include<stdio.h>
    2
      #include<string.h>
    3
       int main()
    4 .
      |{
    5
           char str1[1000000],str2[1000000];
    6
           int flag=1;
    7
           scanf("%s",str1);
    8
           scanf("%s",str2);
    9
           int a=strlen(str1);
   10
           int b=strlen(str2);
   11
           if(a==b)
   12
   13 +
            {
   14
                for(int i=a-1;i>=0;i--)
   15 .
   16
                    while(str1[i]!=str2[i])
   17 .
                    {
   18
                        for (int j=0; j<=i; j++)
   19 .
   20
                            if(str1[j]<'z')
   21
                            str1[j]++;
   22
                            else
   23 .
                             {
   24
                                 flag=0;
   25
                                break:
   26
   27
                            if(flag==0)
   28
                            break;
   29
   30
                    }
   31
   32
            }
   33
            else
   34
            flag=0;
   35
   36
            if(flag==0)
   37
            printf("NO");
   38
            else
   39
            printf("YES");
   40
            return 0;
   41
   42
```



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

abc def 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 **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>
   2
      #include<string.h>
   3
      int main()
   4 • {
   5
           int n,flag=0;
   6
           char temp;
   7
           scanf("%d",&n);
   8
           char words[n][14];
   9
           for(int i=0;i< n;i++)
   10
           scanf("%s",words[i]);
   11
           char reverse[14];
   12
           for(int i=0; \bar{i}< n-1; i++)
   13 .
   14
                strcpy(reverse,words[i]);
   15
                int size=strlen(reverse);
   16
   17
                for(int k=0; k<size/2; k++)
   18 .
   19
                    temp=reverse[k]:
   20
                    reverse[k]=reverse[size-k-1];
   21
                    reverse[size-k-1]=temp;
   22
   23
   24
                for(int j=i+1;j<n;j++)
   25 .
   26
                    if(strcmp(reverse,words[j])==0)
   27 .
   28
                        flag=1;
   29
                        break;
   30
   31
   32
                if(flag==1)
   33
                break;
   34
   35
            int len=strlen(reverse);
   36
            printf("%d %c ",len,reverse[len/2]);
   37
            return 0;
   38
```

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

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

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

Pizzapizza 49

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]; 9 for(int i=0;i<n;i++) 10 . 11 scanf("%s",res[i]); 12 scanf("%d",&rate[i]); 13 14 15 int max=rate[0]; 16 char ans[20]; 17 strcpy(ans,res[0]); 18 for(int i=1;i<n;i++) 19 . 20 if(rate[i]>max) 21 . 22 max=rate[i]; 23 strcpy(ans,res[i]); 24 25 26 else if(rate[i]==max) 27 . 28 if(strcmp(res[i],ans)<0)</pre> 29 strcpy(ans,res[i]); 30 31 32 printf("%s",ans); 33 return 0;

34 35

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

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:

 $1 \le T \le 10^3$ sum of string length $\le 10^5$ 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:

 $1 \le T \le 10^3$ sum of string length $\le 10^5$

SAMPLE INPUT

1234567890

0123456789 0123456.87

SAMPLE OUTPUT

YES NO

NO

```
Answer: (penalty regime: 0 %)
      #include<stdio.h>
    2
      #include<string.h>
       int main()
    4 .
    5
           int t;
    6
           scanf("%d",&t);
    7
           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++)
   17 .
   18
                         if(s[0]=='0')
   19 .
   20
                             flag=0;
   21
                             break;
   22
   23
                         if(s[i]<'0'||s[i]>'9')
   24 •
   25
                             flag=0;
   26
                             break;
   27
    28
    29
    30
                 else
    31
                 flag=0;
    32
    33
                 if(flag==1)
    34
                 printf("YES\n");
    35
                 else
    36
                 printf("NO\n");
    37
    38
                 return 0;
    39
```

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