		GE23131-ProgrammingUsingC	
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	StringHandl	ingFunction	
	ou ingranar	ingi unction	
1			

Ex.No.: Date:

AliceandStrings

ProblemStatement:

Two stringsAand B comprising of lower-caseEnglish lettersare 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 valueofallthecharactersintheprefixbythesamevalidamount. 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 Bare compatible.

Inputformat Firstline:StringA Nextline:StringB

Outputformat

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

SampleOutput YES

Explanation

The string abaca can be converted to be bdain one move and to cdb dain the next move.

Program: #include<stdio.h> #include<string.h> 2 3 int main() 4 . { char str1[100000],str2[1000000]; int flag=1; scanf("%s",str1); scanf("%s",str2); int a=strlen(str1); int b=strlen(str2); if(a=b) 5 6 8 9 10 if(a==b)11 12 . { for(int i=a-1;i>=0;i--) 13 14 15 while(str1[i]!=str2[i]) 16 . 17 for(int j=0;j<=i;j++) 18 19 if(str1[j]<'z') 20 str1[j]++; 21 22 23 flag=0; 24 break; 25 26 27 28 if(flag==0) 29 break; 30 31 } 32 33 } 34 else flag=0; if(flag==0) printf("NO"); 35 36 37 38 else printf("YES"); 39 40 Expected Got Input abaca YES YES cdbda Passed all tests! ~

Ex.No.: Date:

Pizza Confusion

ProblemStatement:

Joey loves to eat Pizza. But he is worried as the quality of pizza made by most of the restaurantsisdeteriorating. The last few pizzas ordered by him did not tastegood: (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.

Joeyhasassignedpointstoalltherestaurants, butcan 'tfigureoutwhich restaurants at is fies Chandler's criteria. Can you help him out?

InputFormat:

FirstlinehasN, the total number of restaurants.

NextNlinescontainNameofRestaurantandPointsawardedbyJoey,separatedbya space. Restaurantnamehasnospaces,alllowercaselettersandwillnotbemorethan20 characters.

OutputFormat:

PrintthenameoftherestaurantthatJoeyshouldchoose.

Constraints:

1<=N<=105

1<=Points<=106

SampleInput

3

Pizzeria108

Dominos145

Pizzapizza49

Sample Output

Dominos

```
1
     #include<stdio.h>
 2
     #include<string.h>
 3
     int main()
 4 .
    {
 5
         int n;
 6
         scanf("%d",&n);
 7
         char res[n][21];
 8
         int rate[n];
 9
         for(int i=0;i<n;i++)
10 +
         {
              scanf("%s",res[i]);
11
              scanf("%d",&rate[i]);
12
13
         int max=rate[0];
14
         char ans[20];
15
         strcpy(ans,res[0]);
16
         for(int i=1;i<n;i++)
17
18 -
         {
             if(rate[i]>max){
19 -
20
21
             max =rate[i];
22
             strcpy(ans,res[i]);
23
             }
24
25
        else if(rate[i]==max)
26 - {
27
    if(strcmp(res[i],ans)<0)
28
    strcpy(ans,res[i]);
29
    }
30
   1
31
32
    printf("%s",ans);
33
   }
34
```

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

Passed all tests! <

Ex.No.: Date:

Password

ProblemStatement:

DannyhasapossiblelistofpasswordsofManny'sfacebookaccount.Allpasswordslength 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.

InputFormat

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.

OutputFormat

The first and only line of output must contain the length of the correct password and its central letter.

Constraints

1≤N≤100

SampleInput

4

abc

def

feg

cba

SampleOutput

3 b

```
#include<stdio.h>
               2
                  #include<string.h>
               3
                  int main()
               4 .
                  {
               5
                       int n,flag=0;
                      char temp;
scanf("%d",&n);
               6
               7
               8
                       char words[n][14];
               9
                       for(int i=0;i<n;i++)
scanf("%s",words[i]);</pre>
              10
                       char reverse[14];
              11
              12
                       for(int i=0;i<n-1;i++)
              13 +
              14
                       strcpy(reverse,words[i]);
              15
                       int size=strlen(reverse);
             16
                       for(int k=0;k<size/2;k++)
              17
                       {
              18
                           temp=reverse[k];
             19
                           reverse[k]=reverse[size-k-1];
              20
                           reverse[size-k-1]=temp;
              21
              22
                       for(int j=i+1;j<n;j++)
              23
              24 +
              25
                           if(strcmp(reverse,words[j])==0)
              26
                            {
              27
                                flag=1;
              28
                                break;
              29
              30
                           }
              31
                       if(flag==1)
             32
             33
                       break;
             34
              35
                       int len=strlen(reverse);
              36
                       printf("%d %c ",len,reverse[len/2]);
             37
              38
              39
             40
             41
             42
             43
             44
             45
             46
             47
             48
              49
              50
              51
              52
                  Input Expected Got
                  4
                         3 b
                                  3 b
                  abc
                  def
                  feg
                  cba
            Passed all tests! ~
Program:
```