

REC-CIS

GE23131-Programming Using C-2024

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Question **1**
Correct
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Two strings **A** and **B** comprising of lower case English letters are compatible if they are equal number of times:

Select a prefix from the string **A** (possibly empty), and increase the alphabetical value of each letter by a valid amount. For example, if the string is **xyz** and we select the prefix **xy** then we can convert it to **zab**. 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

$1 \leq \text{len}(A) \leq 1000000$

$1 \leq \text{len}(B) \leq 1000000$

SAMPLE INPUT

abaca

cdbda

SAMPLE OUTPUT

YES

Explanation

The string **abaca** can be converted to **bcdba** in one move and to **cdbda** in the next move.

Answer: (penalty regime: 0 %)

```
1 #include<stdio.h>
2 #include<string.h>
3
4 int main()
5 {
6     char str1[1000000], str2[1000000];
7     int flag=1;
8     scanf("%s",str1);
```

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```

12     if(a==b)
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 }

```

	Input	Expected	Got	
	abaca cbbda	YES	YES	

Passed all tests!

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 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 lowercase letters of the English alphabet.

OUTPUT

The first and only line of output must contain the length of the correct password and its cent

CONSTRAINTS

$1 \leq N \leq 100$

SAMPLE INPUT

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abc
def
feg
cba

SAMPLE OUTPUT

3 b

Answer: (penalty regime: 0 %)

```

1  #include<stdio.h>
2  #include<string.h>
3
4  int main()
5  {
6      int n,flag=0;
7      char temp;
8      scanf("%d",&n);
9      char words[n][14];
10     for(int i=0;i<n;i++)
11         scanf("%s",words[i]);
12     char reverse[14];
13     for(int i=0;i<n-1;i++)
14     {
15         strcpy(reverse,words[i]);
16         int size=strlen(reverse);
17
18         for(int k=0;k<size/2;k++)
19         {
20             temp=reverse[k];
21             reverse[k]=reverse[size-k-1];
22             reverse[size-k-1]=temp;
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	

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 restaura by him did not taste good :(Joey is feeling extremely hungry and wants to eat pizza. But he i should order. As always he asks Chandler for help.

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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

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. Letters and will not be more than 20 characters.

Output:

Print the name of the restaurant that Joey should choose.

Constraints:

$$1 \leq N \leq 10^5$$

$$1 \leq \text{Points} \leq 10^6$$

SAMPLE INPUT

```
3
Pizzeria 108
Dominos 145
Pizzapizza 49
```

SAMPLE OUTPUT

```
Dominos
```

Explanation

Dominos has maximum points.

Answer: (penalty regime: 0 %)

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

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```
29     }
30     printf("%s",ans);
31     return 0;
32 }
```

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

Passed all tests!

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 so invalid. Bechan Chacha has special power that he can pick his crush number only if he has valid the valid numbers.

You are given a string "S" and you have to determine whether it is Valid mobile number or not, 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: $1 \leq T \leq 10^3$ sum of string length $\leq 10^5$ **SAMPLE INPUT**

```
3
1234567890
0123456789
0123456.87
```

SAMPLE OUTPUT

```
YES
NO
NO
```

Answer: (penalty regime: 0 %)

```
1 #include<stdio.h>
2 #include<string.h>
3 int main()
```

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```

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[i]!='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      {
32          flag=0;
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			

Passed all tests!