GE23131-Programming Using C-2024





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

 $1 \le N \le 100$

SAMPLE INPUT

abc

def fea

cba

SAMPLE OUTPUT

3 b

Answer: (penalty regime: 0 %)

```
#moclude
#include
#
11 v
12
13
14
15 v
16
17
18
19
20 v
                                                                                                                                       for(int k=0;k<s/2;k++){
    t=r[k];
    r[k]=r[s-k-1];
    r[s-k-1]=t;</pre>
                                                                                                                                         for(int j=i+1;j<n;j++){
    if(strcmp(r,w[j])==0){
     f=1;
     break;</pre>
21 v
22
23
24
25
26
27
                                                                                                                                    }
if(f==1)
break;
28
29
30
                                                                                           int l=strlen(r);
printf("%d %c ",1,r[1/2]);
return 0;
31
32
33
```

```
Input Expected Got
                      3 b 🗸
      def
feg
      cba
Passed all tests! 🗸
```

Question 3 Correct Marked out of 1.00 F Flag question

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 <= 10<sup>5</sup>
1 <= Points <= 10<sup>6</sup>
```

SAMPLE INPUT

3

Pizzeria 108 Dominos 145 Pizzapizza 49

SAMPLE OUTPUT

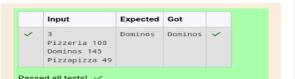
Dominos

Explanation

Dominos has maximum points.

Answer: (penalty regime: 0 %)

```
10
11
12
13
14
15
16
17
18
19
                    }
int m=r[0];
char a[20];
strcpy(a,re[0]);
for(int i=1;i<n;i++){
    if(r[i]>m){
        m=r[i];
        strcpy(a,re[i]);
}
 20
                              else if(r[i]==m){
   if(strcmp(re[i],a)<0)
   strcpy(a,re[i]);</pre>
21
22
23
24
25
26
27
                    printf("%s",a);
return 0;
28
        }
```



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

Next T line each representing "S" as described in in problem

Output:

Print "YES" if it is valid mobile number else print "NO". Note: Ouotes are for clarity.

Constraints:

1<= T <= 10³ sum of string length \leftarrow 10 5

SAMPLE INPUT

1234567890 0123456.87

SAMPLE OUTPUT

YES NO

```
10
11
12
13
14
15
16
17
18
19
20
21
22
                                 }
if(s[i]<'0'||s[i]>'9'){
   f=0;
   break;
                      else
f=0;
if(f==1)
printf("YES\n");
else
    23
24
25
26
27
28
29
30
                      printf("NO\n");
                return 0;
    31
```

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

Passed all tests! ✓