

Programming using C

week.11 practice session and coding

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Two strings **A** and **B** are composed of lower case English letters. Are they anagrams? They are equal or can be made equal by changing the case any number of times.

When a letter from the string **A** (possibly empty), and reverse the alphabetical value of all the characters in the string to be the same value as **B**. For example, if the string is **apple** and we select the letter **a**, then we can convert it to **z** by increasing the alphabetical value by 1. But if we select the letter **z**, 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**

Second 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) ≤ 100000

1 ≤ len(B) ≤ 100000

SAMPLE INPUT

abac

abac

SAMPLE OUTPUT

YES

Explanation

The string **abac** can be converted to **abac** in one step and to **abac** in two steps.

Answer: (Initially request 0.75)

```
1 def isAnagram(A, B):
2     if len(A) != len(B):
3         return False
4     A = sorted(A)
5     B = sorted(B)
6     for i in range(len(A)):
7         if A[i] != B[i]:
8             return False
9     return True
10
11 A = input()
12 B = input()
13
14 if isAnagram(A, B):
15     print("YES")
16 else:
17     print("NO")
18
19 if __name__ == '__main__':
20     A = input()
21     B = input()
22     if isAnagram(A, B):
23         print("YES")
24     else:
25         print("NO")
```

Input	Expected Output	Actual Output
abac	YES	YES
abac	NO	NO

Passed all tests! 100%

2

code

editor

view

help

about

There's been a possible list of parameters at Henry's facebook account. All parameters length is odd. But Henry knows that Henry is a big fan of palindromes, so the parameters and output of the parameter both should be a palindrome.

You have to print the length of Henry's parameter and its possible character.

Note: The solution will be unique.

INPUT

The first line of input contains the integer N , the number of possible parameters.

Each of the following N lines contains a single word. Its length being an odd number greater than 7 and lower than 10^6 . Characters are lowercase letters and the English alphabet.

OUTPUT

The first and only line of output must contain the length of the word's parameter and its result below.

CONSTRAINTS

$1 \leq N \leq 100$

SAMPLE INPUT

```
4
abc
def
ghi
jkl
```

SAMPLE OUTPUT

```
216
```

Answer: (Initially I posted it 16)

```
1 // C++ program to find the length of the parameter and its result
2
3 #include <iostream>
4
5 using namespace std;
6
7 int main()
8 {
9     int n;
10    cin >> n;
11    string s;
12    for (int i = 0; i < n; i++)
13    {
14        cin >> s;
15        int len = s.length();
16        int result = 0;
17        for (int j = 0; j < len; j++)
18        {
19            result = (result * 26 + s[j] - 'a') % 1000000007;
20        }
21        cout << result << endl;
22    }
23    return 0;
24 }
```

Input	Expected Output	Got
4	216	216
abc	216	216
def	216	216
ghi	216	216
jkl	216	216

Passed all tests ✓✓

1. Input

2. Output

3. Example

4. Test

5. Solution

Long Chen is not Pious. But he is worried as the quality of goods made by most of the emigrants is deteriorating. The last few pieces ordered by him did not last long at all. Long is feeling extremely hungry and needs to eat soon. But he is confused about the emigrants from where he should order. As always he asks Chandler for help.

Chandler suggests that Long should get most emigrants' name points, and then choose the emigrant having **most name points**. If more than one emigrant has same points, Long can choose the one with **lowest alphabetically sorted name**.

Long has assigned points to all the emigrants, but can't figure out which emigrant satisfies Chandler's criteria. Can you help him out?

Input

First line has N, the total number of emigrants.
Next N lines contain Name of Emigrant and Points awarded by Long, respectively in space. Name can't have **any spaces**, all lowercase letters and can be more than 20 characters.

Output

Print the name of the emigrant that Long should choose.

Constraints

1 ≤ N ≤ 10⁵
1 ≤ Points ≤ 10⁷

SAMPLE INPUT

```
3
Ahmed 100
Dawood 100
Rajeshwar 95
```

SAMPLE OUTPUT

Dawood

Explanation

Dawood has maximum points.

Answer (Initially requires 2 Ns)

```
1 #include <iostream>
2 using namespace std;
3 struct Emigrant {
4     string name;
5     int points;
6 };
7 int main() {
8     int N;
9     cin >> N;
10    vector<Emigrant> v(N);
11    for (int i = 0; i < N; i++) {
12        string name;
13        int points;
14        cin >> name >> points;
15        v[i] = Emigrant{name, points};
16    }
17    sort(v.begin(), v.end(), [](const Emigrant& a, const Emigrant& b) {
18        if (a.points < b.points) return true;
19        if (a.points == b.points) return a.name < b.name;
20        return false;
21    });
22    cout << v[0].name << endl;
23    return 0;
24 }
```

Input	Expected	Got
3 Ahmed 100 Dawood 100 Rajeshwar 95		

Passed all tests ✓

Activate Windows
Go to Settings to activate Windows.

There is a function $f(x)$ in the problem. You are given two lists of numbers: a and b . The function $f(x)$ is defined as follows: $f(x) = x^2 + 1$. You are given two lists of numbers: a and b . The function $f(x)$ is defined as follows: $f(x) = x^2 + 1$. You are given two lists of numbers: a and b . The function $f(x)$ is defined as follows: $f(x) = x^2 + 1$.

You are given two lists of numbers: a and b . The function $f(x)$ is defined as follows: $f(x) = x^2 + 1$. You are given two lists of numbers: a and b . The function $f(x)$ is defined as follows: $f(x) = x^2 + 1$.

Input:

First line of input is T representing total number of test cases.
Each T line contains two numbers a and b .

Output:

Print "YES" if it is valid number else print "NO".
(Note: Output is case sensitive)

Constraints:

$1 \leq T \leq 10$
 $1 \leq a, b \leq 10^9$

SAMPLE INPUT

```
2
1 1
1 2
1 3
```

```
YES
NO
NO
```

Answer (already signed off)

```
1 // Problem A: Valid Number
2
3 #include <iostream>
4 using namespace std;
5
6 int main()
7 {
8     int T;
9     cin >> T;
10    while (T--)
11    {
12        long long a, b;
13        cin >> a >> b;
14        if (a < b)
15            swap(a, b);
16        if (a % b == 0)
17            cout << "YES" << endl;
18        else
19            cout << "NO" << endl;
20    }
21    return 0;
22 }
```

Input	Expected	Got
1	YES	YES
2	NO	NO
3	NO	NO

Passed all tests! ✓