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Strings



by abhiranjan

Problem

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C++ provides a nice alternative data type to manipulate strings, and the data type is conveniently called *string*. Some of its widely used features are the following:

- *Declaration:*

```
string a = "abc";
```

- *Size:*

```
int len = a.size();
```

- *Concatenate two strings:*

```
string a = "abc";  
string b = "def";  
string c = a + b; // c = "abcdef".
```

- *Accessing i^{th} element:*

```
string s = "abc";  
char c0 = s[0]; // c0 = 'a'  
char c1 = s[1]; // c1 = 'b'  
char c2 = s[2]; // c2 = 'c'  
  
s[0] = 'z'; // s = "zbc"
```

P.S.: We will use *cin/cout* to read/write a string.

Input Format

You are given two strings, **a** and **b**, separated by a new line. Each string will consist of lower case Latin characters ('a'-'z').

Output Format

In the first line print two space-separated integers, representing the length of **a** and **b** respectively.

In the second line print the string produced by concatenating **a** and **b** (**a + b**).

In the third line print two strings separated by a space, **a'** and **b'**. **a'** and **b'** are the same as **a** and **b**, respectively, except that their first characters are swapped.

Sample Input

```
abcd
ef
```

Sample Output

```
4 2
abcdef
ebcd af
```

Explanation

- $a = "abcd"$
- $b = "ef"$
- $|a| = 4$
- $|b| = 2$
- $a + b = "abcdef"$
- $a' = "ebcd"$
- $b' = "af"$

[f](#) [t](#) [in](#)

Submissions: 39450

Max Score: 10



Difficulty: Easy

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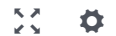
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C++



```
1 #include <iostream>
2 #include <string>
3 using namespace std;
4
5 int main()
6 {
7     char c0,c1;
8     string a, b;
9     cin >> a >> b;
10
11     cout << a.size()<<" "<< b.size() << endl;
12
13     cout << a + b << endl;
14     c0 = a[0];c1=b[0];a[0]=c1;b[0]=c0;
15     //swap( a[0], b[0] );
16     cout << a << ' ' << b << endl;
17
18     return 0;
19 }
```

Line: 1 Col: 1

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Congrats, you solved this challenge!

✓ Test Case #0

✓ Test Case #3

✓ Test Case #1

✓ Test Case #4

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