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# Strings

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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

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

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Max Score: 10

Difficulty: Easy

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Current Buffer (saved locally, editable)  

C++14  

```
1 #include <iostream>
2 #include <string>
3 using namespace std;
4
5 int main()
6 {
7     string a,b;
8     cin>>a;
9     cin>>b;
10    cout<<a.length()<<" "<<b.length()<<endl;
11    cout<<a+b<<endl;
12    swap(a.at(0), b.at(0));
13    cout<<a<<" "<<b<<endl;
14    return 0;
15 }
16
```

Line: 1 Col: 1

 [Upload Code as File](#)☐ Test against custom input

Run Code

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✓ Test Case #0

✓ Test Case #1

✓ Test Case #2

✓ Test Case #3

✓ Test Case #4

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