



Strings ☆

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Problem

Submissions

Leaderboard

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

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

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C++



```
1  #include <iostream>
2  #include <cstring>
3  #include <string>
4  #include <string.h>
5  using namespace std;
6
7  int main() {
8      // Complete the program
9      string str1,str2;//here we have taken a predefined class string
10     cin>>str1>>str2;
11     cout<<str1.size()<<" "<<str2.size()<<endl;//size() works with string class.If we
take char array to store string then size() function will not work.
12     cout<<str1+str2<<endl;
13     cout<<str2.substr(0,1)+str1.substr(1,str1.size()-1)<<" "<<str1.substr(0,1)
+str2.substr(1,str2.size()-1)<<endl;
14
15     return 0;
16 }
```

Line: 14 Col: 3

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38%

100/150

<https://www.hackerrank.com/challenges/c-tutorial-strings/problem>



Congratulations

You solved this challenge. Would you like to challenge your friends?

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✔ Test case 0

✔ Test case 1

✔ Test case 2

✔ Test case 3

✔ Test case 4

✔ Test case 5

Compiler Message

Success

Input (stdin)

```
1 | abcd
2 | ef
```

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Expected Output

```
1 | 4 2
2 | abcdef
3 | ebcd af
```

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