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Strings ☆

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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

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

C++



```
1  #include <iostream>
2  #include <string>
3  using namespace std;
4
5  int main() {
6      // Complete the program
7
8      return 0;
9  }
10
11
```

Line: 1 Col: 1

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