

Task:**Input Format**

You are given two strings, `s` and `t`, 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 `s` and `t` respectively.

In the second line print the string produced by concatenating `s` and `t` (`s+t`).

In the third line print two strings separated by a space, `s'` and `t'`. `s'` and `t'` are the same as `s` and `t`, respectively, except that their first characters are swapped.

Example:**Input 1**

```
abcd
```

```
ef
```

Output 1

```
4 2
```

```
abcdef
```

```
ebcd af
```