Eidgenössische Technische Hochschule Zürich
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Exercise – *Strings*

In this exercise you practise some operations on strings.

Input   The first line of the input contains the number $t \leqslant 10$ of test cases. Each of the t test cases is described as follows.

- It consists of a line that contains two strings a b, separated by a space, and such that their individual length is at most 10.

Output   For each test case output three lines.

- The first line contains two integers, separated by a space, representing the length of a and b, respectively.

- The second line contains a string obtained by concatenating the given strings a and b.

- The third line contains two strings c and d, where c and d are obtained by first reversing the strings a and b and then swapping the first characters of the newly obtained strings.

Points   There is one group of test sets, worth 100 points in total.

Sample Input
```
1
algorithms lab
```

Sample Output
```
10 3
algorithmslab
bmhtirogla sal
```