

Algorithms Lab

Exercise – *Strings*

In this exercise you practise some operations on strings.

Input The first line of the input contains the number $t \leq 10$ 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
```