

## Algorithms Lab

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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  $t \leq 10$  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
```