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## Create A New String

Input file:            `standard input`  
Output file:        `standard output`  
Time limit:         1 second  
Memory limit:      256 megabytes

Given two strings  $S$  and  $T$ . Print **2** lines that contain the following in the same order:

1. Print the **length** of  $S$  and  $T$  separated by space.
2. Print a **new string** that contains  $S$  and  $T$  separated by a space.

**For more clarification see the example below.**

### Input

The first line contains a string  $S$  ( $1 \leq |S| \leq 10^3$ ) where  $|S|$  is the length of  $S$ .

The second line contains a string  $T$  ( $1 \leq |T| \leq 10^3$ ) where  $|T|$  is the length of  $T$ .

### Output

Print the answer required above.

### Examples

standard input	standard output
LEVEL ONE	5 3 LEVEL ONE
Programming contest	11 7 Programming contest