

Text Wrap

Check [Tutorial](#) tab to know how to solve.

You are given a string S and width w .

Your task is to wrap the string into a paragraph of width w .

Function Description

Complete the `wrap` function in the editor below.

`wrap` has the following parameters:

- *string string*: a long string
- *int max_width*: the width to wrap to

Returns

- *string*: a single string with newline characters ('\n') where the breaks should be

Input Format

The first line contains a string, *string*.

The second line contains the width, *max_width*.

Constraints

- $0 < \text{len}(\text{string}) < 1000$
- $0 < \text{max_width} < \text{len}(\text{string})$

Sample Input 0

```
ABCDEFGHIJKLMNOPQRSTUVWXYZ  
4
```

Sample Output 0

```
ABCD  
EFGH  
IJKL  
IMNO  
QRST  
UVWX  
YZ
```