

MWC '15 #1 P2: Postcard

Time limit: 2.0s **Memory limit:** 256M

Salarios77 wants to send a postcard to **atarw** but mailing is expensive. He notices that a good portion of a grid is just white paper, so output the smallest rectangular design that will encompass all of the black ink!

Input Specification

The first line will contain integers N (rows), M (columns) (separated by space).

Subtask 1 [10%]

$$2 \leq N, M \leq 5$$

Subtask 2 [10%]

$$2 \leq N, M \leq 100$$

Subtask 3 [80%]

$$2 \leq N, M \leq 1000$$

The following line will contain the design, with representing white space and being black (separated by spaces).

Note: Fast input may be required.

Output Specification

Output the grid in its smallest form.

Sample Input

```
4 4
. * * .
. . . .
. . . .
. * * .
```

Sample Output

* *

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• •

* *