Mock CCC '18 Contest 2 J2 - A Software Engineering Task

Time limit: 5.0s **Memory limit:** 1G

You are given a 2D array with n rows and m columns and asked to run the following procedure on it 100 times.

```
function(grid):
for each row in the grid going from top to bottom:
   for each column in the grid going from left to right:
      if the character in the given row and given column is an 'o' and the character in the same column and one row lower is a '.':
      swap those two characters in the grid
```

Print out the grid after running the procedure 100 times.

Constraints

 $1 \le n, m \le 50$

In the array, the only characters that will appear are o, #, and ...

Input Specification

The first line contains two space-separated integers, n and m.

Each of the next n lines contains m characters describing the array from top to bottom.

Output Specification

Print the grid in exactly the same format after 100 simulations of the above procedure.

Sample Input

```
3 3
000
#..
..#
```

Sample Output

ο..

#.o

.0#