Problem B. Picture Frame

Time limit 2000 ms **Mem limit** 262144 kB

Problem Statement

You are given a image with a height of H pixels and a width of W pixels. Each pixel is represented by a lowercase English letter. The pixel at the i-th row from the top and j-th column from the left is a_{ij} .

Put a box around this image and output the result. The box should consist of # and have a thickness of 1.

Constraints

- $1 \le H, W \le 100$
- a_{ij} is a lowercase English letter.

Input

Input is given from Standard Input in the following format:

Output

Print the image surrounded by a box that consists of # and has a thickness of 1.

Sample 1

Input	Output
2 3	#####
abc	<pre>#abc# #arc#</pre>
arc	
	####

Sample 2

Input	Output
1 1	###
z	#z#
	###