5744. Rotating the Box

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User Accepted:	0
User Tried:	0
Total Accepted:	0
Total Submissions:	0
Difficulty:	Medium

You are given an `m x n` matrix of characters `box` representing a side-view of a box. Each cell of the box is one of the following:

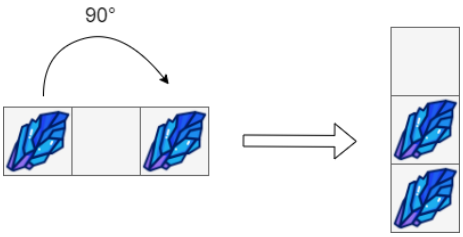
- A stone `'#'`
- A stationary obstacle `'*'`
- Empty `'.'`

The box is rotated **90 degrees clockwise**, causing some of the stones to fall due to gravity. Each stone falls down until it lands on an obstacle, another stone, or the bottom of the box. Gravity **does not** affect the obstacles' positions, and the inertia from the box's rotation **does not** affect the stones' horizontal positions.

It is **guaranteed** that each stone in `box` rests on an obstacle, another stone, or the bottom of the box.

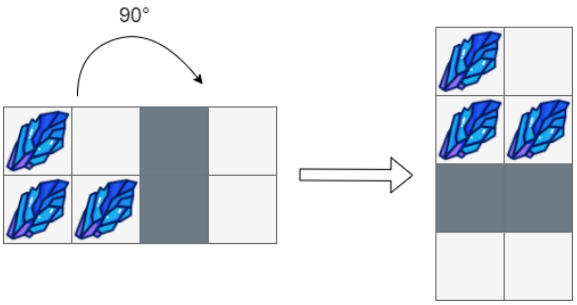
Return *an* `n x m` *matrix representing the box after the rotation described above*.

Example 1:




```
Input: box = [["#",".","#"]]
Output: [["."],
         ["#"],
         ["#"]]
```

Example 2:




```
Input: box = [["#",".","*","."],
              ["#","#","*","."]]
Output: [["#","."],
         ["#","#"],
         ["*","*"],
         [".","."]]
```

Example 3: