

419. Battleships in a Board

Description

Given an `m x n` matrix `board` where each cell is a battleship `'X'` or empty `'.'`, return *the number of the battleships on* `board`.

Battleships can only be placed horizontally or vertically on `board`. In other words, they can only be made of the shape `1 x k` (`1` row, `k` columns) or `k x 1` (`k` rows, `1` column), where `k` can be of any size. At least one horizontal or vertical cell separates between two battleships (i.e., there are no adjacent battleships).

Example 1:

X			X
			X
			X

Input: `board = [["X",".",".","X"],[".",".",".","X"],[".",".",".","X"]]`
Output: `2`

Example 2:

Input: `board = [["."]]`
Output: `0`

Constraints:

- `m == board.length`
- `n == board[i].length`
- `1 <= m, n <= 200`
- `board[i][j]` is either `'.'` or `'X'`.

Follow up: Could you do it in one-pass, using only `O(1)` extra memory and without modifying the values `board` ?

