Given an 2D board, count how many battleships are in it. The battleships are represented with 'X's, empty slots are represented with '.'s. You may assume the following rules:

* You receive a valid board, made of only battleships or empty slots.
* Battleships can only be placed horizontally or vertically. In other words, they can only be made of the shape 1xN (1 row, N columns) or Nx1 (N rows, 1 column), where N can be of any size.
* At least one horizontal or vertical cell separates between two battleships - there are no adjacent battleships.

**Example:**

X..X

...X

...X

In the above board there are 2 battleships.

**Invalid Example:**

...X

XXXX

...X

This is an invalid board that you will not receive - as battleships will always have a cell separating between them.

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