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348. Design Tic-Tac-Toe									
Medium ம்	1229 <i>5</i>	ም 77 (2 Add to List	☐ Share					

Assume the following rules are for the tic-tac-toe game on an $\ n \ x \ n$ board between two players:

- 1. A move is guaranteed to be valid and is placed on an empty block.
- 2. Once a winning condition is reached, no more moves are allowed.
- 3. A player who succeeds in placing n of their marks in a horizontal, vertical, or diagonal row wins the ga

Implement the TicTacToe class:

- TicTacToe(int n) Initializes the object the size of the board n.
- int move(int row, int col, int player) Indicates that player with id player plays at the cell (col) of the board. The move is guaranteed to be a valid move.

Follow up:

Could you do better than $O(n^2)$ per move() operation?

Example 1:

```
Input
["TicTacToe", "move", "move", "move", "move", "move", "move", "move"]
[[3], [0, 0, 1], [0, 2, 2], [2, 2, 1], [1, 1, 2], [2, 0, 1], [1, 0, 2], [2, 1, 1]]
Output
[null, 0, 0, 0, 0, 0, 0, 1]
Explanation
TicTacToe ticTacToe = new TicTacToe(3);
Assume that player 1 is "X" and player 2 is "O" in the board.
ticTacToe.move(0, 0, 1); // return 0 (no one wins)
|X| | |
// Player 1 makes a move at (0, 0).
ticTacToe.move(0, 2, 2); // return 0 (no one wins)
|X| |0|
// Player 2 makes a move at (0, 2).
ticTacToe.move(2, 2, 1); // return 0 (no one wins)
|X| |0|
I I I I I
           // Player 1 makes a move at (2, 2).

➢ Pick One

≡ Problems
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