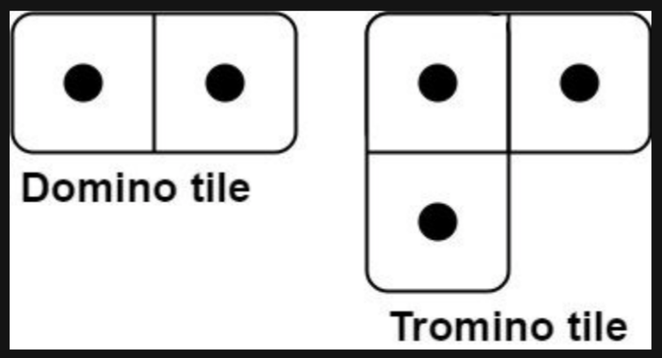
790. Domino and Tromino Tiling

Description

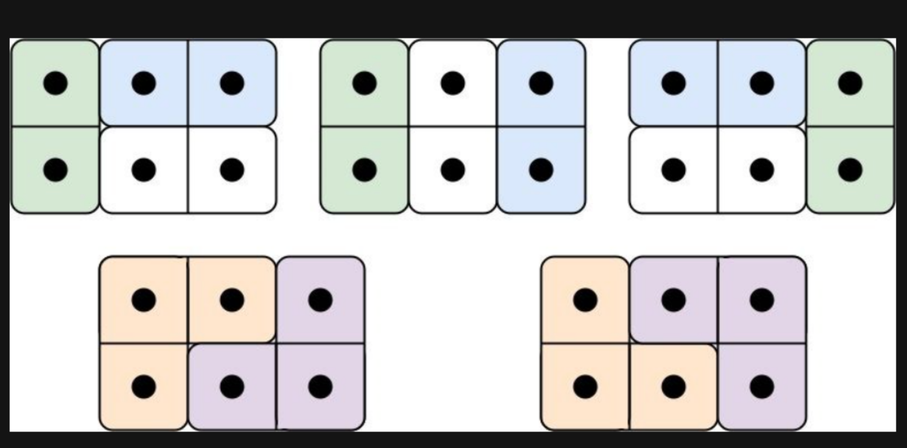
You have two types of tiles: a `2 x 1` domino shape and a tromino shape. You may rotate these shapes.



Given an integer n, return *the number of ways to tile an* `2 x n` *board*. Since the answer may be very large, return it **modulo** $10^9 + 7$.

In a tiling, every square must be covered by a tile. Two tilings are different if and only if there are two 4-directionally adjacent cells on the board such that exactly one of the tilings has both squares occupied by a tile.

Example 1:



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Input: n = 3
Output: 5
Explanation: The five different ways are show above.
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Example 2:

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Input: n = 1
Output: 1
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Constraints:

- `1 <= n <= 1000`