**Divisor Game**

Alice and Bob take turns playing a game, with Alice starting first.

Initially, there is a number n on the chalkboard. On each player's turn, that player makes a move consisting of:

Choosing any x with 0 < x < n and n % x == 0.

Replacing the number n on the chalkboard with n - x.

Also, if a player cannot make a move, they lose the game.

Return true if and only if Alice wins the game, assuming both players play optimally.

Example 1:

Input:

n = 2

Output: True

Explanation: Alice chooses 1, and Bob has no more moves.

Example 2:

Input:

n = 3

Output: False

Explanation: Alice chooses 1, Bob chooses 1, and Alice has no more moves.

Your Task:

You don't need to read input or print anything. Your task is to complete the function divisorGame() which takes an integer n as a parameter and returns true if Alice wins the game.

Expected Time Complexity: O(1)

Expected Auxiliary Space: O(1)

Constraints:

1 ≤ n ≤ 103

CODE :

Class Solution {

public:

bool divisorGame(int n) {

// code here

return !(n & 1);

}

};

Link : <https://www.geeksforgeeks.org/problems/divisor-game-1664432414/1>

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