

1086. Divisor Game

Difficulty : Easy

<https://leetcode.com/problems/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.

Constraints:

- $1 \leq n \leq 1000$