Question: https://leetcode.com/problems/divisor-game/

This solution uses the mathematical approach. The key sentence in the problem is "Return True if and only if Alice wins the game, assuming both players play optimally."

Assuming that both players play optimally means each player will subtact the smallest number posible. An example number could be 7:

Each player will subtract 1 because it is the smallest number in the range 0 < x < N and every number can be divided by it.

Since each player subtracts one from the number N:

* If N is even then Alice will win because Alice takes the first turn.
* If N is odd then Bob will win.

Code:  
class Solution {

public boolean divisorGame(int n) {

return n%2==0;

}

}

Github Link :<https://lnkd.in/ecwtJeaz>