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Solve systems of linear equation with all unknowns primes.

$$p_1 + p_2 = N$$

Obstructions:

$$p_1 - 2p_2 + p_3 = 0$$

1. Archimedean Obstructions: There must be a solution over the positive integers.

2. Mod p obstructions.

Dickson's conjecture Barring these obstructions, there's always an infinite number of solutions.