Prime Number Generator

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The set of even numbers are defined by Goldbach's Theorem:

$$\{e\} = L = (p_1)^2 + (p_2)^2 = 2(p_1)(p_2)$$

Dividing by 2

$$\{e\} - 1 = \{o\} = 2(p_1)(p_2) - 1$$

$$p_2 = 1$$

$$\frac{\{e\}}{2} - 1 = \{o\}$$

To generate prime numbers, select any even number as a unique product of primes expressed as a sum of squared primes, divide by 2, subtract 1 which results in the set of (odd) primes expressed as a unique product of prime numbers.