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Eric S. Rowland* (erowland@math.rutgers.edu), Department of Mathematics, Rutgers University, Piscataway, NJ 08854. *A simple prime-generating recurrence.*

While $f(n)$ clearly has something to do with factorization (due to the gcd), it is not obvious why $\gcd(n, f(n-1))$ should never be composite. There is, however, sufficient structure to allow a proof, making this recurrence a rare “naturally occurring” generator of primes. (Received September 18, 2007)