Problem 2. Simple ideas for primes

December 27, 2023

Let $a_n = 41 + n \cdot (n+1)$ with $n = 0, 1, 2, \ldots$.

Here $a_0, a_1, \ldots, a_{39}$ are prime numbers. So sequence primality parameter equals to 40.

With $n = 40$, $a_{40} = 41 + 40 \cdot 41 = 41^2$ is composite.