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Fixed points of the order of appearance in the Fibonacci sequence,
Fibonacci Quart. **50** (2012), no. 4, 346–352

Abstract

Let F_n be the n th Fibonacci number. The order of appearance $z(n)$ of a natural number n is defined as the smallest natural number k such that n divides F_k . In this paper, we prove that $z(n) = n$, if and only if $n = 5^k$ or $12 \cdot 5^k$, for some $k \geq 0$.