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## Abstract

Let $k \geq 1$ be an integer and let $F_k$ be the $k$th Fibonacci number. In this paper we prove that if $\{F_{2k}, 5F_{2k}, c, d\}$ with $c < d$ is the set of four positive integers such that any product of its two distinct elements increased by 4 is a perfect square, then $d$ is uniquely determined by $k$ and $c$.