Abstract

We derive evaluations of the classical Dedekind sum $s(h, k)$ for certain classes of generalized Fibonacci and Lucas numbers that had previously not been considered. As particular cases we obtain explicit formulas for $s(p^n - 1, p^{n+1} - 1)$ for integers $p \geq 2$ and $n \geq 1$, and for $s(p^n + 1, p^{n+1} + 1)$, with $p \geq 2$ even.