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*Dedekind Sums and Some Generalized Fibonacci and Lucas Sequences*,  
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**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.