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*Lucas sequences for which  $4 \mid \phi(|u_n|)$  for almost all  $n$ ,*  
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**Abstract**

In this paper, we look at those pairs of integers  $(a, b)$  for which the Lucas sequence of general term  $u_n = u_n(a, b)$  has the property that  $4 \mid \phi(|u_n|)$  for almost all positive integers  $n$ .