

Lawrence Somer and Michal Křížek  
*On Moduli for Which Certain Second-Order Linear Recurrences Con-  
tain a Complete System of Residues Modulo  $m$ ,*  
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**Abstract**

Let  $u(a, b)$  denote the Lucas sequence defined by the second-order recursion relation  $u_{n+2} = au_{n+1} + bu_n$  with initial terms  $u_0 = 0$  and  $u_1 = 1$ , where  $a$  and  $b$  are integers. The positive integer  $m$  is said to be nondefective if  $u(a, b)$  contains a complete system of residues modulo  $m$ . All possibilities for  $m$  to be nondefective are found when  $b = \pm 1$ . This paper generalizes results of S. A. Burr for the Fibonacci sequence  $u(1, 1)$ .