

Brian Curtin, Ena Salter and David Stone  
*Some formulae for the Fibonacci numbers,*  
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**Abstract**

Using elementary methods, we derive formulae for the shifted summations  $\sum_{j=0}^{d-1} F_{n+j}F_{m+j}$ ,  $\sum_{j=0}^{d-1} L_{n+j}L_{m+j}$ , and  $\sum_{j=0}^{d-1} F_{n+j}L_{m+j}$  and the shifted convolutions  $\sum_{j=0}^{d-1} F_{n+j}F_{d-m-j}$ ,  $\sum_{j=0}^{d-1} L_{n+j}L_{d-m-j}$ , and  $\sum_{j=0}^{d-1} F_{n+j}L_{d-m-j}$  for positive integers  $d$  and arbitrary integers  $n$  and  $m$ .