

K. Liptai, G. K. Panda, and L. Szalay  
*A Balancing Problem on a Binary Recurrence and its Associate*,  
Fibonacci Quart. **54** (2016), no. 3, 235–241.

**Abstract**

A balancing problem associated with two integer sequences is introduced. The problem is studied using the sequences obtained from a binary recurrence and its associate sequence. We provide an algorithm to solve, under some circumstances, the Diophantine equation  $G_0 + G_1 + \cdots + G_x = H_0 + H_1 + \cdots + H_y$  in the non-negative integer unknowns  $x$  and  $y$ , where the sequence  $\{H_n\}_{n=0}^{\infty}$  is the associate of  $\{G_n\}_{n=0}^{\infty}$ .