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We begin by considering sums of the form $\sum_{j=0}^m (-1)^j \binom{m}{j} \binom{n-j}{m+k}$, for integers n and k , and non-negative integers m . These sums are then used to generate doubly-recursive sequences. We examine the structure of these sequences and the relationship between the sequences. (Received September 09, 2016)