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Anti-Palindromic Compositions,
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Abstract

A palindromic composition of n is a composition of n that reads the same way forwards and backwards. In this paper, we define an anti-palindromic composition of n to be a composition of n that has no mirror symmetry among its parts. We then give a surprising connection between the number of anti-palindromic compositions of n and the so-called tribonacci sequence, a generalization of the Fibonacci sequence. We conclude by defining a new q -analogue of the Fibonacci sequence, which is related to certain equivalence classes of anti-palindromic compositions.