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A Bijection Between Two Classes of Restricted Compositions, Fibonacci Quart. 50 (2012), no. 4, 360-365


#### Abstract

Two proofs, one using generating functions, the other bijective, are given for the following theorem: The number of compositions of $n$ into parts congruent to $1(\bmod k)$ equals the number of compositions of $n+k-1$ into parts greater than $k-1$. This bijection is then proven to hold for palindromic compositions. A more general theorem is presented in conclusion.


