

Reverse layered permutations

Definition

A permutation ϕ is called reverse layered if it is of the form $q_1 q_2 \dots q_k$, where the q_i are strings of consecutively increasing numbers and $q_i > q_j$ if $i < j$.

Lemma (Monsour, 2002)

The set of reverse layered permutations is the set of 132 and 213 avoiding permutations.