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Nathaniel Shar*, Nathaniel Shar, Department of Mathematics, Rutgers University, 110 Frelichuysen Rd., Piscataway, NJ 08854-8019. *A quick method for counting permutations avoiding 4231 and 4123.* Preliminary report.

Although no explicit formula or generating function is known for the number of permutations of length n avoiding $\{4231, 4123\}$, the value can be computed by a relatively simple recursive function that runs in polynomial time. The same method also yields polynomial-time recurrences, of progressively higher degree, for an infinite family of permutation classes. (Received January 16, 2015)