

arXiv.org > math > arXiv:1206.0320

Search or Article-id

All papers - Go!

(Help | Advanced search)

Download:

- PDF
- PostScript
- Other formats

Current browse context: math.CO

< prev | next >

new | recent | 1206

Change to browse by:

References & Citations

NASA ADS

Bookmark(what is this?)
Image: Image:

Mathematics > Combinatorics

Expected Patterns in Permutation Classes

Cheyne Homberger

(Submitted on 1 Jun 2012 (v1), last revised 12 Jul 2012 (this version, v2))

In the set of all patterns in S_n , it is clear that each k-pattern occurs equally often. If we instead restrict to the class of permutations avoiding a specific pattern, the situation quickly becomes more interesting. Mikl\'os B\'ona recently proved that, surprisingly, if we consider the class of permutations avoiding the pattern 132, all other non-monotone patterns of length 3 are equally common. In this paper we examine the class Av (123), and give exact formula for the occurrences of each length 3 pattern. While this class does not break down as nicely as Av (132), we find some interesting similarities between the two and prove that the number of 231 patterns is the same in each.

Subjects:Combinatorics (math.CO)Journal reference:Electronic Journal of Combinatorics, 19(3) (2012), P43Cite as:arXiv:1206.0320 [math.CO](or arXiv:1206.0320v2 [math.CO] for this version)

Submission history

From: Cheyne Homberger [view email] [v1] Fri, 1 Jun 2012 22:19:37 GMT (11kb) [v2] Thu, 12 Jul 2012 15:20:47 GMT (11kb)

Which authors of this paper are endorsers?

Link back to: arXiv, form interface, contact.