

It must be connected with S.542, and the difference between the two sequences,

(..., 0, 0, 0, 0), 1, 2, 10, 19, 52, 105, 224, 429, 820,

may be worth looking at. The particular interest though, is that $R(2r+s, r+s)$, $s = 0, 1, 2, \dots$, is an AP with common difference, $R(r) = \sum R(r, i)$, the members of S.253., which observation simplifies the calculations.

Another sequence which may be of interest, but which is not in Sloane (whenever I say that, I must admit I'm too lazy to look in the Supplement) is

1, 2, 3, 4, 7, 9, 13, 17, 25, 32, 43

It is $R(T_r - s, r)$, $s = 0, 1, 2, \dots, r-1$, extended as far as you want by taking r big enough. Except for its length, the sequence is independent of r ; T_r is the r th triangular number, $\frac{r(r+1)}{2}$.

Best wishes,

Yours sincerely,

Richard

Richard K. Guy.

RKG:1

P.S. A sequence that you might like, which takes its time at the beginning, is that of the maxima of the rows

1, 1, 2, 3, 4, 5, 6, 7, 9, 11, 15, 20, 27, 35, 44, 56, 73, 91, 115, 148, 186, 227, 283, 358, 435, 538, 671, 813, 1001, 1233, 1492, 1815, 2223, 2673, 3247, 3933, 4713, 5683, 6850, 8170, 9785, 11725, 13948, 16587, 19783, 23468

P.P.S. A nice red herring, swimming between the Capell-Narayana and Wedderburn-Etherington numbers, is the sequence generated by $(1-x-x^2)/(1-2x)(1-x^2)$:

1, 2, 3, 6, 11, 22, 43, 86, 171, 342, 683, 1366, 2731, 5462, 10923, 21846, 43691, 87382, 174763, 349526, 699051, 1398102, 2796203, 5592406, 11184811, 22369622, (compare S.983).

P.P.P.S. Could the Sloane Inter-Library Loan Service (SILLS, as in "sea-lions and sills") provide a photocopy of the relevant portion of R.A. Fisher, Contributions to Mathematical Statistics, Wiley, New York, 1950, to enable me to check S.455? or at least explain

No

ASS76
SSC
gms

ASS77
SSC
gms

ASS78
SSC
gms

NO! v. over

the reference 41.399 (p.399 of what?). NO!!! Forget it!
I found it in MR, which guided me to the *Ann. Eugenics* paper,
excellently reviewed by Coxeter (MR 4,183e).

P.P.P.P.S. (88-04-11) Just heard from you. Will be happy
to include the lost footnote (p.474) in the review of
Conway-Sloane.

encl: 2 sheets

pc: Jim Propp

