

Comments on the Larsen Paper

M#s

1624	$n!$	
$\sqrt{R_n^2}$ 1824	$2^n \cdot n!$	
$\sqrt{R_n}$ 1986	$(2n)!/n!$	
$\sqrt{S_n}$ 1185	$A_n = A_{n-1} + (n-1) A_{n-2}$	$\dots, 119952692896$
$\sqrt{S_n''}$ 1599	$A_n = 2(A_{n-1} + (n-1) A_{n-2})$	
$\sqrt{T_n}$ 1708		
$\sqrt{E_n}$ 1910=A900		Extend.
$\sqrt{D_n}$ 2772	$A_n = 2A_{n-1} + (2n-4)A_{n-2}$	
C_n 4335		Extend
$\sqrt{B_n}$ 4160	$(2n+1)!/n! = (2n)!/2n!$	
$\sqrt{A_n}$ 4531		Extend



These are M-numbers (not A-numbers)

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$$C_n = [R_n^2 - R_n - S_n'']/4$$

$$= [2^n \cdot n! - R_n - S_n'']/4$$

$$E_n = [S_n - S_n'']/2$$

$$m 2772 / 2 = m 1599$$

$$m 1986 / 2 = m 4160$$

$$m 1910 = (m 1185 - m 1599)/2 \text{ almost.} \\ - [\frac{n}{2}] \text{ in } m 1599) / 2$$

$$C_n = (R^2 - R_n - S_n)/4$$

n	R_n	$(R^2)_n$	S_n	S'_n	T_n
14		64 51 20	2 39 04 80	65 12	1 08 97 96 46 60
15		64 51 20	10 34 95 36	65 12	16 34 61 96 40 24
16	16 80	10 32 19 20 34 00	46 20 67 36	3 24 00	2 61 53 61 57 83 44
17	16 80	10 32 19 20 34 00	2 11 79 93 12	3 24 00	44 46 09 82 75 24 88
18		185 79 45 60	9 97 31 38 24	16 89 92	8 00 29 69 85 76 87 76
19		185 79 45 60	48 09 70 14 40	16 89 92	
20	302 40	37 15 89 12 00 30 60 16	2 37 58 66 40 96	92 11 84	
21	302 40	37 15 89 12 00 30 60 16	11 99 52 69 28 96	92 11 84	
			61 88 84 63 89 12	5 22 22 08	

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n	E_n	D_n	B_n	A_n	C_n
14	1 19 19 84	32 56		1 08 96 60 97 68	15 96 52
15	5 17 15 12	32 56		16 34 56 62 96 04	15 96 52
16	23 08 71 68	1 62 00	8 40	2 61 53 35 90 21 76	2 57 19 60
17	1 05 88 34 56	1 62 00	8 40	44 46 08 74 28 00 32	2 57 19 60
18	49 85 72 41 6	8 44 96		8 00 29 64 40 70 54 72	46 40 63 92
19	24 04 76 62 24	8 44 96			46 40 63 92
20	118 78 87 14 56	46 05 92	1 51 20		9 28 73 49 44
21	5 99 75 88 58 56	46 05 92	1 51 20		9 28 73 49 44
22	3094 39 70 83 52	2 61 11 04			

✓
A0900

A0901

f

a Table to evaluate and extend C_n

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$$\frac{(R_n^2 - R_n - S_n'')}{4} = C_n$$

M1824 M1986 M1599 M4335

A0901

$n/2$	R_n^2 M1824	R_n M1986	S_n'' M1599	C_n M4335
0	2			
1	2		2	0
2	8	2	6	0
3	48		20	7
4	384	12	76	74
5	3840		312	882
6	46080	120	1384	11144
7	645120		6512	159652
8	321920	1680	32400	2571960
9	185794560		168992	46406392
10	3715891200	30240	921184	928734944
11	81749606400		5222208	20436096048
12	1961990553600	665280	30710464	409489794464
13	51011754393600		186753920	12752891909920
14	1428329123020800	17297280	1171979904 186753920	357081983435904
15	42849873690624000		7573069568	10712466529388608
16	1371195958099968000	518918400	50305536256 1171979904	342798976818878336
17	46620662575398912000		342949298688 7573069568	11655165558112403328