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August 16, 1971

Dr. N.J.A. Sloane
Bell Laboratories
600 Mountain Avenue
Murray Hill, N.J. 07974

Dear Dr. Sloane:

Please refer to your letter of August 2.

I shall be glad to give your catalog a thorough reading, but I must emphasize that I could not pass on the accuracy of the entries. I did look up the Fibonacci Quarterly paper and the sequence mentioned in my letter of July 12. There is indeed an error in the original paper, and the last entry of the sequence on page A-11, line 40, should be 130 instead of 140. I programmed a desk calculator to generate the two tables in Lind's paper for $L(n,r)$ and $A(n,r)$, and enclose a copy of my results. The entries opposite the n 's are values of $L(n,r)$ and the offset entries are $A(n,r)$:

$$\begin{aligned} L(n+1, r+1) &= L(n, r) + L(n, r+1) \\ A(n, r+1) &= L(n+1, r) - L(n, r+1) \end{aligned}$$

You will note that the sequence $A(n,6)$ is identical to the cake cutting sequence given by $N = (1/6)(n+1)(n^2-n+6)$.

John Woodyard has not published anything relating to the cable shielding and connection problems, and has no plans to do so in the near future. He says he may do it sometime.

I sent a note to Professor Lehmer asking if he would like to see a copy of your latest catalog, but have not heard from him. I think he would appreciate a copy, however. His address is

Professor D. H. Lehmer
Department of Mathematics
University of California
Berkeley, California 94720.

Dr. N.J.A. Sloane

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August 16, 1971

Enclosed is a supplementary list of corrections to UCRL-20418.
Dr. Wrench has checked about 1800 entries and I have recomputed many of
the remaining numbers, so that the number of errors remaining in Tables I
and II should be small, perhaps fewer than six, except for some definite
errors in the Glaisher series. We are reworking those.

Sincerely,

Herman P. Robinson
Herman P. Robinson

HPR:fm

Enclosure

MILK'S BASE
B2FRASE
COTTON CONTENT

perf: P.A. Lind
Pih, Quart., 3, 795, 296 (1965)

Table of $L(n, r)$ and of $A(n, r)$

n	$r = s$	1	2	3	4	5	6	7	8	9	10
1	1	1	1	1	1	1	1	1	1	1	1
2	1	0	2	1	2	2	2	2	2	2	2
3	2	0	3	1	4	3	6	4	4	4	4
4	3	0	5	1	7	4	8	7	8	8	8
5	5	0	8	1	12	5	15	11	16	16	16
6	8	0	13	1	20	6	27	16	31	32	32
7	13	0	21	1	33	7	47	22	58	63	64
8	21	0	34	1	54	8	80	29	105	121	127
9	34	0	55	1	88	9	134	37	185	226	248
10	55	0	89	1	143	10	222	46	319	411	474
11	89	0	144	1	232	11	365	56	541	730	885
12	144	0	233	1	376	12	597	67	906	1271	1615
13	233	0	377	1	609	13	973	79	1503	2177	2886
14	377	0	610	1	986	14	1582	92	2476	3680	5063
15	610	0	987	1	1596	15	2568	106	4059	6156	8743

$\leftarrow L(n, r)$
 $\leftarrow A(n, r)$

n	r →	1	2	3	4	5	6	7	8	9	10
16	967	1597	2583	4164	6626	10214	14899	20169	25119	28904	
17	1597	2584	4180	6747	10790	16840	25113	35099	45288	54993	16384
18	2584	4181	6764	10927	17537	27630	41953	60181	80356	99311	26333
19	4181	6765	10945	17691	28464	45167	69583	102134	140537	179667	
20	6765	10946	17710	28636	46155	73631	114750	171717	242671	320206	63094
21	10946	17711	28656	46346	74791	119786	188381	286467	414388	56297	94124
22	17711	28657	46367	75002	121137	194577	308167	474848	700855	977363	
23	28657	46368	75024	121369	196139	315714	502744	783015	1175703	1678115	
24	46368	75025	121392	196393	317508	511853	818458	1285759	1958718	2853821	390656
25	75025	121393	196417	317785	513901	829361	1330311	2104217	324477	4912539	
26	121393	196418	317810	514202	831686	1343262	2159672	3434528	5348694	8057016	726206

$$L(n+1, r+1) = L(n, r) + L(n, r+1)$$

$$A(n, r+1) = L(n+1, r) - L(n, r+1)$$

ERRATA FOR UCRL-20418

August 12, 1971

Page	Entry	For	Read
14	3.10628...	...02643 63832	...05389 87600
15	3.12891...	...51258	...51257
18	0.16040...	Insert * between 0.16040 and .16129	
18	2.16395...	...28488	...84877
24	1871.25430...	...47692	...47608
27	1.30170...	Insert * between 1.30170 and 0.30182	
37	1385.45573...	...14091	...14092
40	0.49626...	...18538 07940	...18537 86924
46	0.60653	Insert * between 0.60653 and 0.60714	
59	9.84966...	...81740	...81739
68	1.01594...	...63479 91446	...63482 81716
70	0.18340...	...45914	...44986
74	Line 2		11.47796 80139 87075 91151
7	0.01826...	...98172 13312	...84029 62829