

I marked 4 enclosures
with the letters $\alpha, \beta, \gamma, \delta$.

NJAS

7/1/2015

798
etc

Mr. N. J. A. Sloane
Bell Laboratories
600 Mountain Avenue
Murray Hill, New Jersey 07974

Nov 21 1970

Dear sir:

I apologise for the delay in replying to your letter of November 6. I am sending you five enclosures:

(1) A draft of my article. I hope to have some further results soon, and will revise the article and send it perhaps to the Canadian Math. Bulletin. You will find the values you asked for in the tables, among others.

(2) Lists of machine-computed matrices for the duality classes (see (1) for definitions) of connected 5 and 6 point partial and quasi orders. The 5-point list is somewhat scribbled-over. Column 2 represents the successive rows of a matrix. Col. 3 is the number of matrices in the same equivalence class; i.e. the number of different labelings of the class diagram. If the matrix is equivalent to its transpose, col. 4 contains 0. Otherwise the matrix represents its own class and also the dual of that class, i.e. the inverted diagram, and col. 4 contains 1. If the diagram is T_0 (a partial order) then col. 5 is 1, otherwise it is 0. All this will be clearer when you look at the two pages of hand-drawn diagrams, item (3). However, according to the notation used in my paper I should have either inverted the diagrams or transposed the matrices in (3).

(4) Computed matrices for connected 6-point duality classes. Notation is as in (2) except that in col. 4, 1 means the matrix is equivalent to its transpose and 2 means it is not. (5) Diagrams of 6-point quasi-orderings, also inverted with respect to the notation in (1).

The above material is not in good enough form to be publishable, but I hope it will be of some use to you. Let me know if you want further clarification, of a copy of the next draft of the paper.

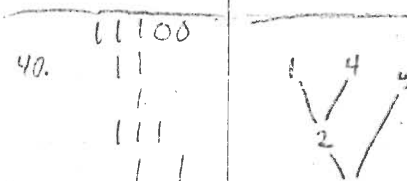
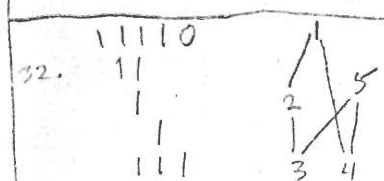
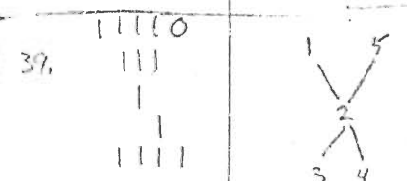
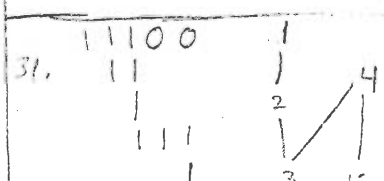
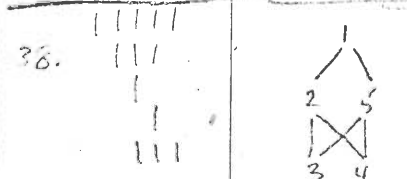
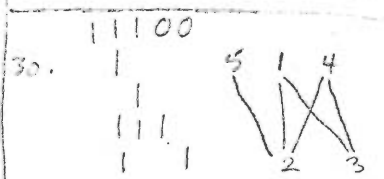
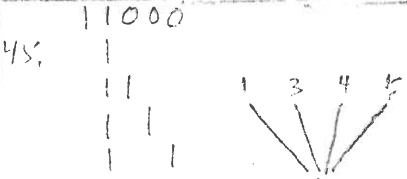
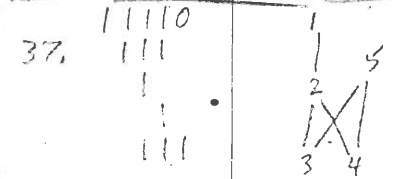
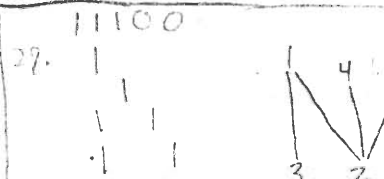
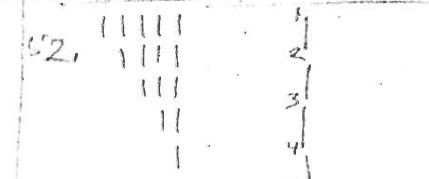
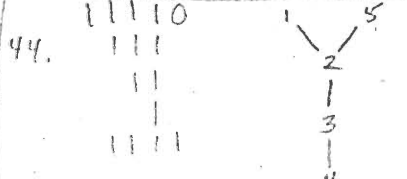
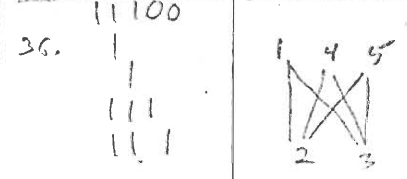
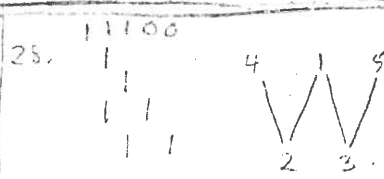
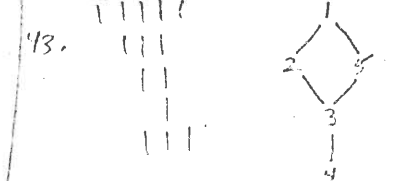
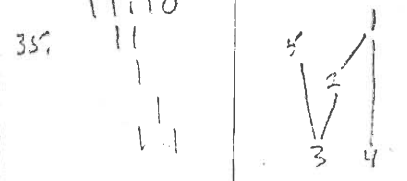
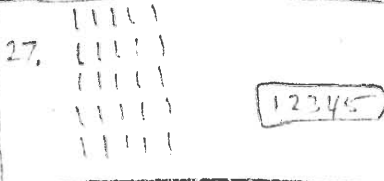
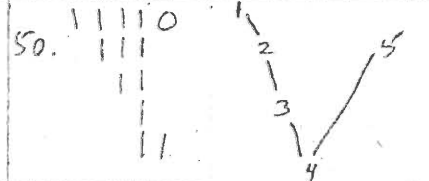
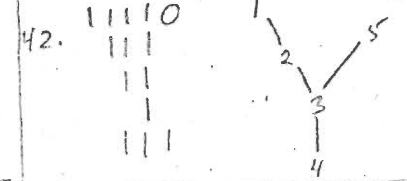
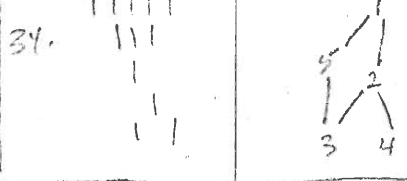
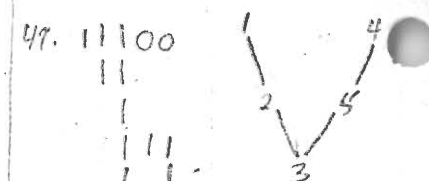
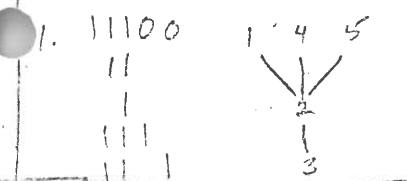
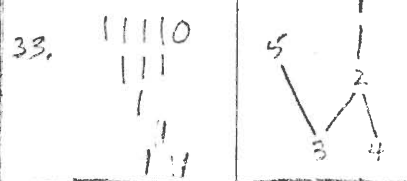
Yours sincerely,

John A. Wright
Mathematics Department
University of Rochester
Rochester, N. Y. 14627.
21 November 1970.

(not Dr.) John A. Wright

716 275 3221
4413

1.		9.		17.	
2.		10.		18.	
3.		11.		19.	
4.		12.		20.	
5.		13.		21.	
6.		14.		22.	
7.		15.		23.	
8.		16.		24.	



Enclosure θ

Quasi=0

$T_0=1$

} Non- T_0

75 1820 2821 3822 36 39

Index	Binary String	Value	Quasi=0	$T_0=1$
1	11110011000110000001000011	60	1	0
2	1111001100011000001001101	60	1	0
3	1111001100011000001001111	30	1	0
4	1111101111001100011000001	60	1	0
5	1111101100011000001000001	30	1	0
6	1111101100011000001100001	60	1	0
7	111110110001100011000001	60	1	0
8	1111111111001100011000001	30	1	0
9	1111101100011000001100011	15	1	0
10	1111101110011100001000001	60	1	0
11	1111101110011100111000001	20	1	0
12	1111101110011100001000011	60	0	0
13	11110011110011100001001111	30	1	0
14	1111101111001110011100001	60	1	0
15	1111111111001110011100001	30	1	0
16	1111101111011110111100001	20	0	0
17	1110001100011000111001101	10	1	0
18	1111001110001100011000111	60	1	0
19	1111101110001100011000111	30	1	0
20	1111001110001100011001111	30	1	0
21	1111001110011100111001111	10	1	0
22	1111101111001110001100011	60	1	0
23	1111111111001110001100011	30	0	0
24	1111101111001110011100111	20	1	0
25	1111111111001110011100111	10	1	0
26	111101111011110111101111	5	1	0
27	111111111111111111111111	1	0	0

8 1221 1820 2821 3822 36

	7	8	0 12/4	0 16/8	0 24/16	0 32/24	37 36					
✓ 28	1		1110001000001000101000101	101	101	101	101	101	101	60	1	1
✓ 29			1110001000001000101001001							60	1	1
✓ 30			1110001000001000111001001							60	1	1
✓ 31			1110001100001000011100001							120	1	1
✗ 32			1111001100001000001000111							120	0	1
✗ 33			1111001110001000001000101							120	1	1
✗ 34			1111101110001000001000101							120	1	1
✗ 35			1111001100001000001000101							120	0	1
✗ 36			1110001000001000111001101							10	1	1
✗ 37			1111001110001000001000111							60	1	1
✗ 38			1111101110001000001000111							30	1	1
✗ 39			1111001110001000001001111							30	0	1
✗ 40			1110001000001000111000101							60	1	1
✗ 41			1110001100001000111001101							20	1	1
✗ 42			1111001110001100001000111							120	1	1
✗ 43			1111101110001100001000111							60	1	1
✗ 44			1111001110001100001001111							60	1	1
✗ 45			1100001000011000101001001							5	1	1
✗ 46	8	12/4	1110001100001000011000101							60	1	1
✗ 47			1111001100001000011000101							60	1	1
✗ 48			1111101100001000011000101							20	0	1
✗ 49			1110001100001000011100101							60	1	1
✗ 50			1111001110001100001000011							120	1	1
✗ 51			1111101110001100001000011							120	0	1
✓ 52			1111101111001110001100001							120	0	1

It appears
gives
(Try p
order)

120
T(1/2)

Enclosure 8

1	100011011001011001000110000010000001	360	2	0
2	100011011001011001000101000010000001	360	2	0
3	100011010011001101001101000010000001	180	2	0
4	110011010011001101001101000010000001	360	2	0
5	101101010011001101001101000010000001	360	2	0
6	101111010011001101001101000010000001	360	1	0
7	111111010011001101001101000010000001	360	2	0
8	100111011001011001000100000010000001	180	2	0
9	100111011001011001000110000010000001	360	2	0
10	100111011001011001000101000010000001	360	2	0
11	110011110011001101001101000010000001	180	2	0
12	1001110110010110010001100000110000001	180	1	0
13	110011110011001101000100000010000001	360	2	0
14	110101110101001011000101000010000001	360	2	0
15	111001111001111001000111000010000001	120	2	0
16	100111011011011011000100000010000001	180	2	0
17	100111011101011101000101000010000001	360	2	0
18	100111011011011011000101000010000001	360	2	0
19	100111011110011110000110000110000001	180	2	0
20	100111011011011011000101000011000001	360	2	0
21	110011110011001010000101000010000001	180	2	0
22	110011110011001001000101000010000001	180	2	0
23	110011110011001011000101000010000001	360	2	0
24	110011110011001101000101000010000001	360	2	0
25	111011011011011011000101000010000001	360	2	0
26	111111011011011011000101000010000001	360	2	0
27	110111110111001001000100000010000001	180	2	0
28	110111110111001010000101000010000001	360	2	0
29	110111110111001001000101000010000001	360	2	0

30	111011111011001011000101000010000001	360	2	0
31	111011111011111011000101000010000001	120	2	0
	1101111101110010110001000000010000001	180	2	0
33	110111110111001101000101000010000001	360	2	0
34	110111110111001011000101000010000001	360	2	0
35	110111110111001110000110000110000001	180	1	0
36	110111110111001011000101000011000001	360	2	0
37	110011110011001011000111000010000001	90	2	0
38	100111011011011011000111000010000001	180	2	0
39	111011011011011011000111000010000001	180	2	0
40	111111011011011011000111000010000001	180	2	0
41	101011010111101011010111000010000001	45	2	0
42	110111110111001011000111000010000001	180	2	0
43	111011111011111011000111000010000001	60	2	0
44	110111110111001111000100000010000001	60	2	0
	110111110111001111000101000010000001	360	2	0
46	110111110111001111000111000010000001	180	2	0
47	110111110111001111000110000110000001	180	1	0
48	110111110111001111000101000011000001	180	2	0
49	110011110011001011000101000011000001	360	2	0
50	110011110011001011000111000011000001	180	2	0
51	100111011011011011000111000011000001	360	2	0
52	111011011011011011000111000011000001	360	2	0
53	111111011011011011000111000011000001	360	2	0
54	110011110011001111000111000011000001	90	2	0
55	110111110111001011000111000011000001	360	2	0
56	111011111011111011000111000011000001	120	2	0
57	110111110111001111000111000011000001	360	2	0
58	110111110111001111000111000111000001	180	2	0
59	110111110111001111000111000011000011	180	2	0

60	1100011100010010010001010000011000001	60	2	0
61	100011011001011001000101000011000001	360	2	0
62	100111011001011001000101000011000001	180	2	0
63	111001011001011001000101000011000001	180	2	0
64	111011011001011001000101000011000001	360	2	0
65	111111011001011001000101000011000001	180	1	0
66	110001110001001101001101000011000001	90	2	0
67	100011010011001101001101000011000001	180	2	0
68	110011110011001001000101000011000001	180	2	0
69	111001111001111001000101000011000001	60	2	0
70	110011110011001011000111000011000011	90	2	0
71	101011010101001011010101000011000001	360	2	0
72	101101010011001101001101000011000001	360	2	0
73	111111010011001101001101000011000001	360	1	0
74	110011110011001101001101000011000001	180	2	0
75	100111011001011001000111000111000001	180	2	0
76	110011110011001101000101000011000001	360	2	0
77	111001111001111001000111000011000001	120	2	0
78	100111011011011011000111000011000011	180	2	0
79	111011011011011011000101000011000001	360	2	0
80	111111011011011011000101000011000001	360	2	0
81	110111110111001001000101000011000001	180	2	0
82	111011111011001011000101000011000001	360	2	0
83	111011111011111011000101000011000001	120	2	0
84	111101111101001101001101000011000001	180	2	0
85	110111110111001011000111000011000011	180	2	0
86	111011011011011011000111000011000011	180	2	0
87	111111011011011011000111000011000011	180	2	0
88	110011110011001111001111000011000011	45	2	0
89	111011111011111011000111000011000011	60	2	0

90	110111110111001111000111000111000111	60	2	0
91	111111010011001101001101010011000001	90	1	0
92	111001111001111001000111000111000001	60	2	0
93	101101011101001101001101000011000001	180	2	0
94	111101011101001101001101000011000001	360	2	0
95	111011011001011001000101000010000001	360	1	0
96	111101011101011101011101000011000001	120	2	0
97	11111011101011101011101000011000001	120	1	0
98	111101111101111101111101000011000001	30	2	0
99	101111011111001111001111000010000001	90	1	0
100	111111011111001111001111000010000001	180	2	0
101	111111111111001111001111000010000001	90	2	0
102	11111011111011111000100000010000001	60	2	0
103	11111011111011111000101000010000001	360	2	0
104	11111011111011111000111000010000001	180	2	0
105	11111011111011111011111000010000001	60	2	0
106	11111011111011111000101000011000001	180	2	0
107	11111011111001111001111000011000001	360	1	0
108	111111111111001111001111000011000001	180	2	0
109	11111011111011111000111000011000001	360	2	0
110	11111011111011111011111000011000001	120	2	0
111	11111011111011111000111000111000001	180	1	0
112	11111011111011111000111000011000011	180	2	0
113	111111111111001111001111000011000011	90	1	0
114	11111011111011111011111000011000011	60	2	0
115	11111011111011111000111000111000111	60	2	0
116	11111011111011111011111011111000001	30	1	0
117	111111111111001000000100000010000001	15	2	0
118	111111111111001001000100000010000001	180	2	0
119	111111111111001011000100000010000001	180	2	0

120	111111111111001111000100000010000001	60	2	0
121	1111111111111111111000100000010000001	20	2	0
122	1111111111110010010001010000010000001	180	2	0
123	1111111111110010010001010000011000001	60	2	0
124	111111111111001010000101000010000001	180	2	0
125	111111111111001011000101000010000001	360	2	0
126	111111111111001101000101000010000001	360	2	0
127	111111111111001111000101000010000001	360	2	0
128	111111111111111111000101000010000001	120	2	0
129	111111111111001011000101000011000001	360	2	0
130	111111111111001111000101000011000001	180	2	0
131	111111111111111111000101000011000001	60	2	0
132	111111111111001011000111000010000001	90	2	0
133	111111111111001011000111000011000001	180	2	0
134	111111111111001011000111000011000011	90	1	0
135	111111111111001111000111000010000001	180	2	0
136	111111111111111111000111000010000001	60	2	0
137	1111111111111111111111000010000001	15	2	0
138	111111111111001111000111000011000001	360	2	0
139	111111111111111111000111000011000001	120	2	0
140	111111111111001111000111000011000011	180	1	0
141	111111111111111111000111000011000011	60	2	0
142	1111111111111111111111000011000001	30	2	0
143	1111111111111111111111000011000011	15	2	0
144	111111111111111111000111000111000111	20	1	0
145	1111111111111111111111111111000001	6	2	0
146	111111111111111111111111111111111111	1	1	0
147	100011010110001001000100000010000001	720	1	1
148	100110010101001011000100000010000001	120	1	1
149	100101010011001001000100000010000001	360	2	1

150	100101010011001011000100000010000001	360	2	1
151	100111010101001011000100000010000001	360	1	1
152	101011010101001011000100000010000001	720	2	1
153	101111010011001101000100000010000001	720	2	1
154	111111010101001011000100000010000001	360	2	1
155	101011010101001000000100000010000001	360	2	1
156	101011010110001001000100000010000001	720	2	1
157	101101010011001001000100000010000001	720	2	1
158	101011010111001000000100000010000001	180	2	1
159	101101011011001001000100000010000001	360	2	1
160	101011010111001001000100000010000001	720	2	1
161	101011010111001001000101000010000001	360	2	1
162	101101010111001001000101000010000001	720	2	1
163	101011010111001001000101000011000001	360	2	1
164	100111010001001001000100000010000001	180	1	1
165	100111010011001001000100000010000001	720	1	1
166	100111010111001001000100000010000001	180	2	1
167	100111011001001001000100000010000001	360	2	1
168	101111010111001001000100000010000001	360	2	1
169	110111010111001001000100000010000001	360	2	1
170	111111010111001001000100000010000001	360	2	1
171	101111010001001000000100000010000001	120	2	1
172	101111010010001001000100000010000001	720	2	1
173	110111010011001100000100000010000001	360	2	1
174	101111010001001001000100000010000001	360	2	1
175	110111010011001001000100000010000001	720	2	1
176	101111010010001001000101000010000001	360	2	1
177	101111010011001000000100000010000001	180	2	1
178	101111011001001001000100000010000001	360	2	1
179	101111010011001001000100000010000001	720	2	1

180	1011110100110010010001010000100000001	360	1	1
181	1011110101010010010001010000100000001	720	2	1
182	1011110100110010010001010000110000001	360	2	1
183	100111010111001011000100000010000001	180	1	1
184	100111011011001011000100000010000001	360	2	1
185	101111010111001011000100000010000001	360	2	1
186	110111010111001011000100000010000001	360	2	1
187	111111010111001011000100000010000001	360	2	1
188	101111010110001001000100000010000001	360	2	1
189	101111010011001011000100000010000001	360	2	1
190	101111010111001000000100000010000001	120	2	1
191	101111011011001001000100000010000001	720	2	1
192	101111011011001011000100000010000001	360	2	1
193	101111010111001001000101000010000001	720	2	1
194	101111011101001001000101000010000001	360	2	1
195	101111010111001001000101000011000001	360	2	1
196	101011010101001010000101000010000001	720	1	1
197	101011010111001010000101000010000001	360	1	1
198	101111010111001001000110000010000001	720	2	1
199	110111010111001001000110000010000001	720	2	1
200	111111010111001001000110000010000001	720	2	1
201	101111010001001010000101000010000001	720	2	1
202	110111010101001010000101000010000001	720	2	1
203	101111010101001010000101000010000001	720	2	1
204	101111010101001011000101000010000001	720	1	1
205	101111010011001101000101000010000001	720	1	1
206	101111010011001101000101000011000001	720	2	1
207	101111010111001011000101000010000001	720	1	1
208	110111010111001011000101000010000001	720	2	1
209	111111010111001011000101000010000001	720	2	1

210	101111011011001011000101000010000001	720	1	1
211	110111010111001101000101000010000001	720	1	1
212	111111010111001101000101000010000001	720	2	1
213	101111010101001101000101000010000001	720	2	1
214	101111011101001101000101000010000001	720	2	1
215	101111011011001011000101000011000001	720	2	1
216	100111010011001001000101000011000001	720	2	1
217	111111010111001011000101000011000001	720	1	1
218	101111010011001011000101000011000001	720	2	1
219	101111010111001011000111000010000001	360	2	1
220	101111010111001011000111000011000001	720	2	1
221	101111010001001001000101000010000001	360	1	1
222	110111010101001001000101000010000001	720	1	1
223	100111010111001111000100000010000001	20	1	1
224	101111010111001111000100000010000001	120	2	1
225	111111010111001111000100000010000001	60	2	1
226	101111011111001000000100000010000001	15	2	1
227	101111011111001001000100000010000001	180	2	1
228	101111011111001011000100000010000001	180	2	1
229	101111011111001111000100000010000001	60	2	1
230	101111011111001001000101000010000001	180	2	1
231	101111011111001001000101000011000001	60	2	1
232	101111010111001111000101000010000001	720	1	1
233	111111010111001111000101000010000001	360	2	1
234	101111011111001010000101000010000001	180	2	1
235	101111011111001101000101000010000001	360	2	1
236	101111011111001111000101000010000001	360	2	1
237	101111011111001011000101000011000001	360	2	1
238	100111010111001001000101000011000001	180	2	1
239	111111010111001111000101000011000001	180	1	1

240	101111011111001111000101000011000001	180	2	1
241	101111011111001011000111000010000001	90	1	1
242	101111011111001011000111000011000001	180	2	1
243	101111011111001111000111000010000001	180	1	1
244	111111011111001011000100000010000001	360	2	1
245	1111110100110010000000100000010000001	180	2	1
246	111111010110001001000100000010000001	360	2	1
247	111111011011001011000100000010000001	360	2	1
248	1111110101110010000000100000010000001	120	2	1
249	111111011011001001000100000010000001	720	2	1
250	111111011101001001000101000010000001	360	2	1
251	111111010111001001000101000011000001	360	2	1
252	111111011111001111000100000010000001	120	2	1
253	1111110111110010000000100000010000001	30	2	1
254	111111011111001001000100000010000001	360	2	1
255	111111011111001001000101000010000001	360	2	1
256	111111011111001001000101000011000001	120	2	1
257	111111011111001111000101000010000001	720	2	1
258	111111011111001010000101000010000001	360	2	1
259	111111011111001101000101000010000001	720	2	1
260	111111011111001011000101000011000001	720	2	1
261	110111010111001001000101000011000001	360	2	1
262	111111011111001111000101000011000001	360	2	1
263	111111011111001011000111000011000001	360	1	1
264	111111011111001111000111000010000001	360	2	1
265	1111110100000010000000100000010000001	6	2	1
266	1111110100010010000000100000010000001	120	2	1
267	111111010001001001000100000010000001	180	2	1
268	111111010001001001000101000010000001	120	2	1
269	111111010001001001000101000011000001	30	1	1

270	111111010001001010000100000010000001	360	2	1
271	111111011001001001000100000010000001	360	2	1
272	111111010001001010000101000010000001	360	2	1
273	111111010101001001000101000010000001	720	2	1
274	111111010011001001000101000011000001	360	1	1
275	111111010101001010000101000010000001	720	2	1
276	111111010101001011000101000011000001	360	1	1
277	111111011101001101000101000010000001	720	2	1
278	111111011011001011000101000011000001	720	1	1
279	111111011111001111000111000011000001	720	1	1

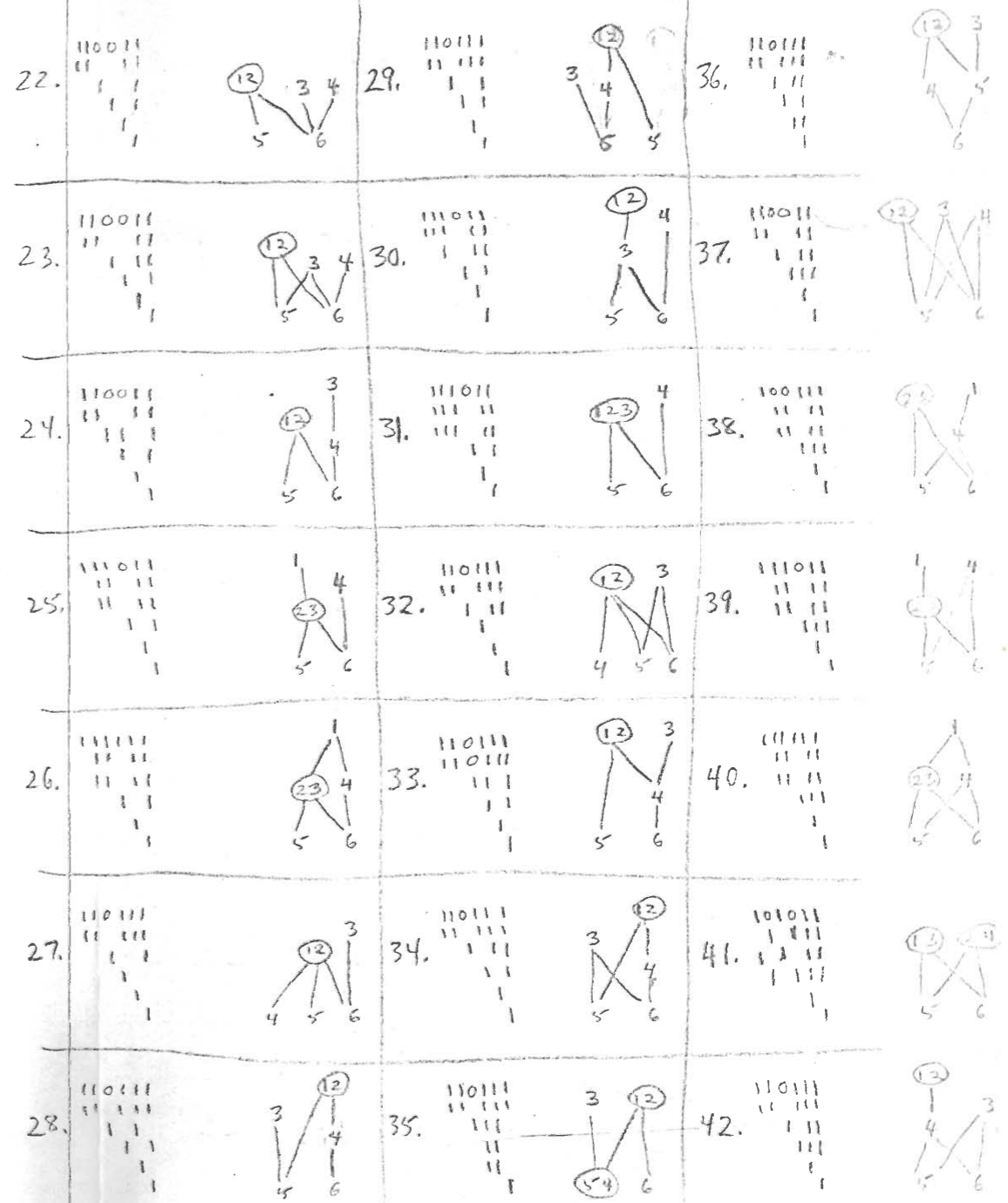
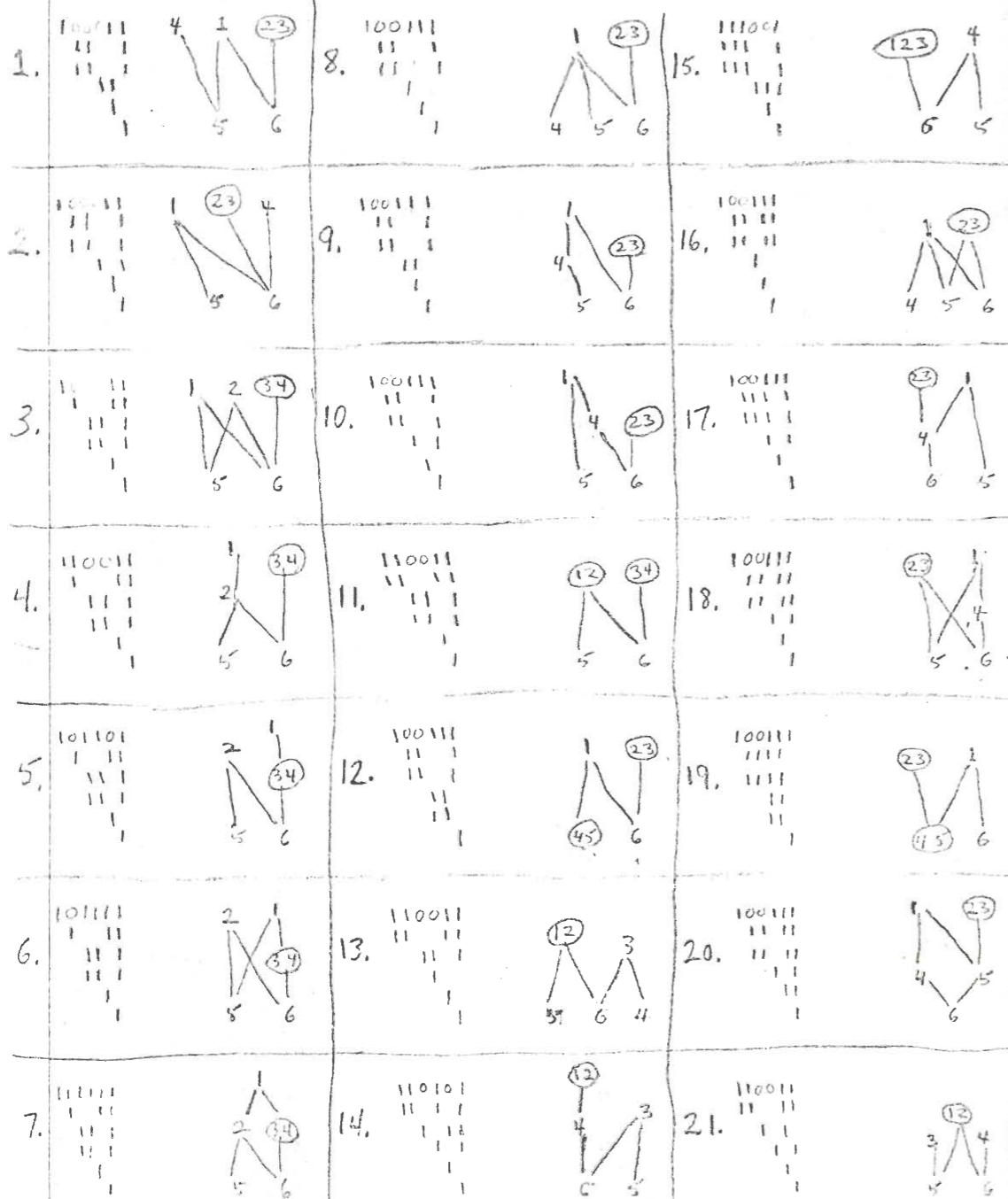
317 238 101642 512 158175

ignore

J A Wright

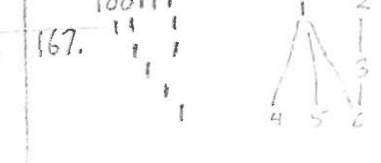
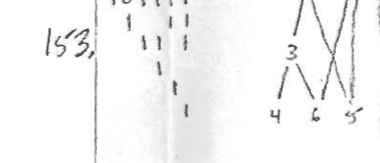
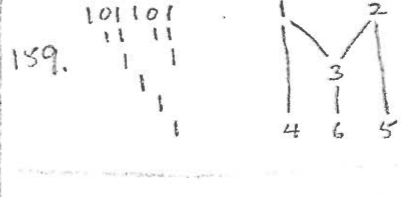
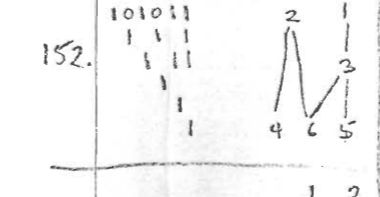
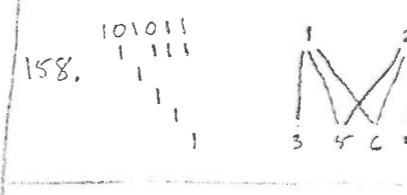
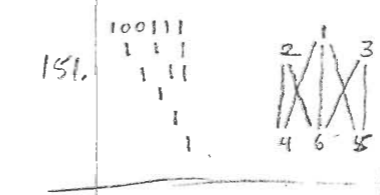
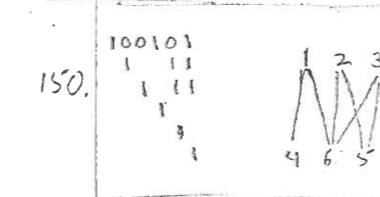
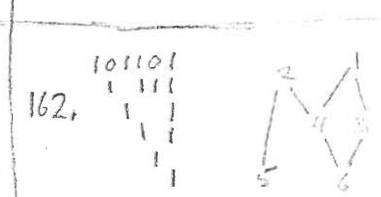
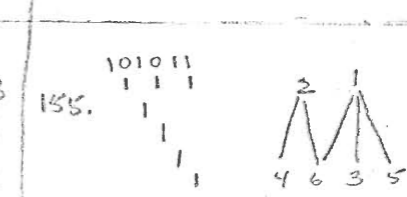
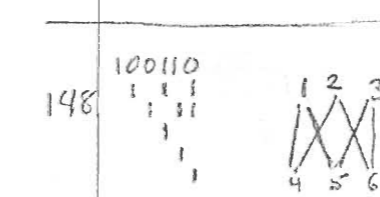
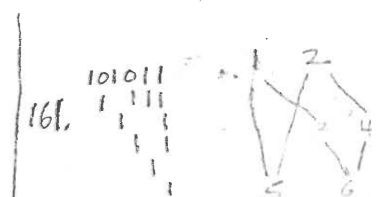
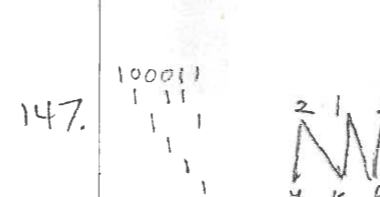
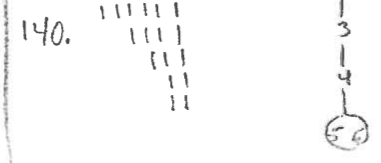
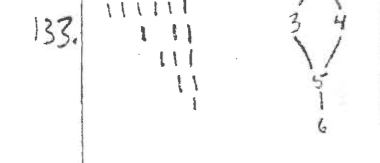
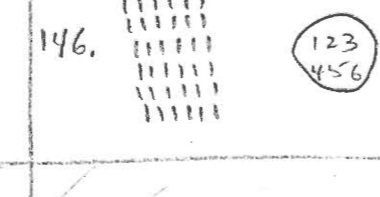
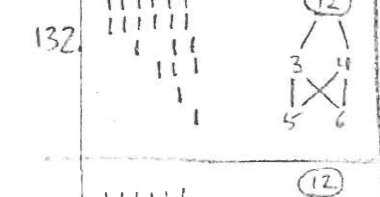
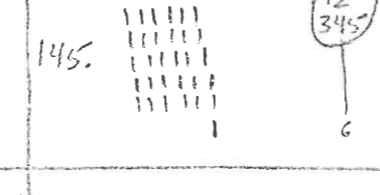
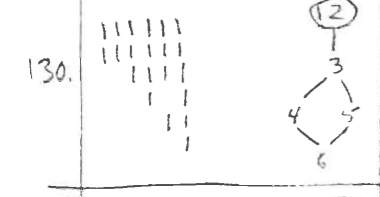
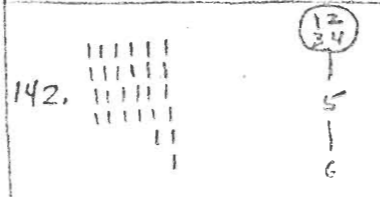
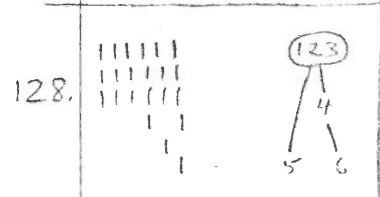
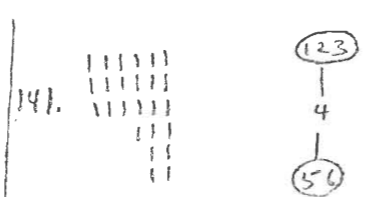
Enclosure 8

A 798



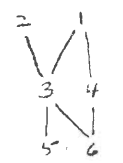
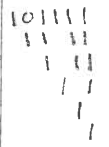
43.		50.		57.		64.		71.		78.	
44.		51.		58.		65.		72.		79.	
45.		52.		59.		66.		73.		80.	
46.		53.		60.		67.		74.		81.	
47.		54.		61.		68.		75.		82.	
48.		55.		62.		69.		76.		83.	
49.		56.		63.		70.		77.		84.	

85.		92.		99.		106.		113.		120.	
86.		93.		100.		107.		114.		121.	
87.		94.		101.		108.		115.		122.	
88.		95.		102.		109.		116.		123.	
89.		96.		103.		110.		117.		124.	
90.		97.		104.		111.		118.		125.	
91.		98.		105.		112.		119.		126.	

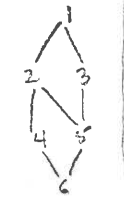


168.		175.		182.		189.		196.		203.	
169.		176.		183.		190.		197.		204.	
170.		177.		184.		191.		198.		205.	
171.		178.		185.		192.		199.		206.	
172.		179.		186.		193.		200.		207.	
173.		180.		187.		194.		201.		208.	
174.		181.		188.		195.		202.		209.	

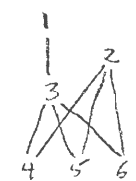
210.



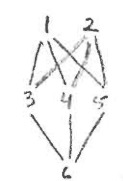
217.



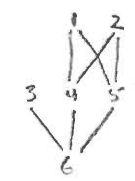
224.



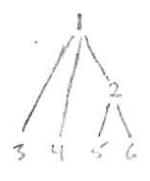
231.



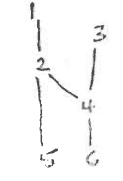
238.



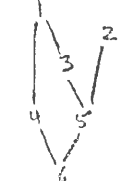
245.



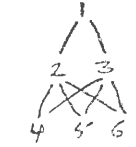
211.



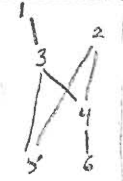
218.



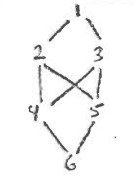
225.



232.



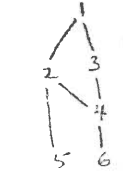
239.



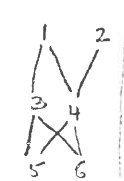
246.



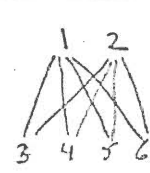
212.



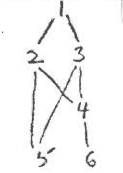
219.



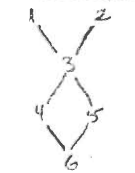
226.



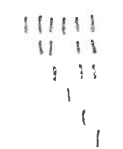
233.



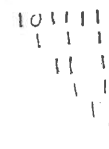
240.



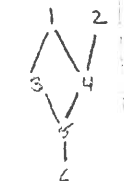
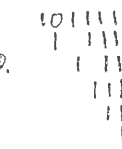
247.



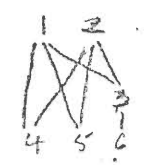
213.



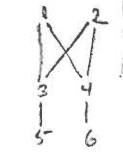
220.



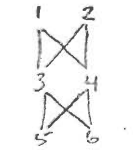
227.



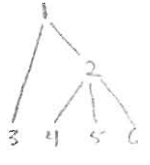
234.



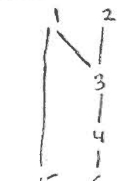
241.



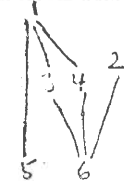
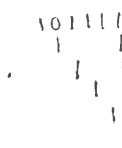
248.



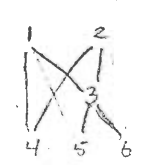
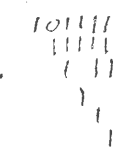
214.



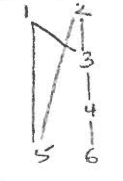
221.



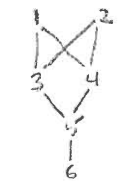
228.



235.



242.



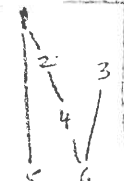
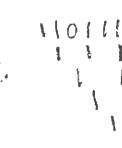
249.



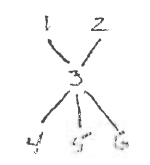
215.



222.



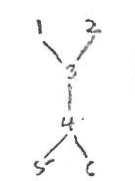
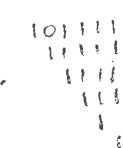
229.



236.



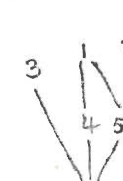
243.



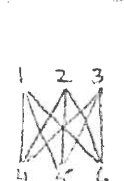
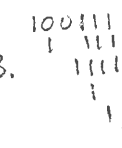
250.



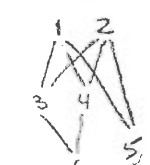
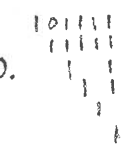
216.



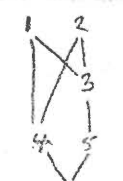
223.



230.



237.



244.



251.

