

A CATALOG OF QUADRI / TRIVALENT GRAPHS

BY

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by

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Heuristic Programming Project

ABSTRACT: In a previous report [1] a method for computer generation of quadri/trivalent "vertex-graphs" was presented in detail. This report is a catalog of 13 classes of graphs generated by using this method.

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## INTRODUCTION

A "vertex-graph" is a graph satisfying the following constraints:

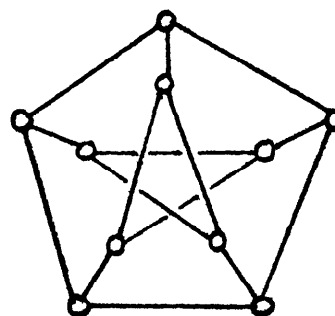
- i) Its vertices are of valence 3 or higher;
- ii) It is at least **2-edge-connected**, i.e., no bridges;
- iii) Its vertices have no self-loops.

The above definition permits multiple edges between vertices, i.e., multi-graphs.

A previous paper indicated the need for the availability of a complete list of vertex-graphs for specified degree sequences and the usefulness of such a list to a computer program [2] that generates a complete list of isomers based on a specified atomic composition. Chemical atoms of valence higher than 4 are rare and thus our attention here is confined to vertex-graphs  $G(t,q)$  having  $t$  vertices of valence 3 and  $q$  vertices of valence 4.

The computer method presented in [1] uses the sub-methods of "Edge Labelling" and "Vertex-Pair Promotion", and generates  $G(t,q)$  graphs from  $G(t+2q)$  graphs, i.e., from Trivalent Regular Graphs.

Lederberg [3] has presented a listing of  $G(t,0)$  graphs which was used in generating the graphs presented at the end of this report. Lederberg's lists are complete for  $t=2,4,6$  and 8. For  $t=10$  the only (non-Hamiltonian, non-planar) graph that was not listed was the Petersen graph shown below.



## RESULTS

Table 1 shows the number of  $G(t,0)$  graphs. Table 2 lists the number of quadri/trivalent graphs that were derived. The Appendix gives a complete list of graphs.

## REFERENCES

1. N. S. Sridharan, "Computer Generation of Vertex-Graphs", Stanford Computer Science Memo STAN-CS-73-381, Stanford University; California, July, 1973.
2. H. Brown and L. Masinter, "An Algorithm for the Construction of the Graphs of Organic Molecules", to appear in DISCRETE MATHEMATICS, 1974.
3. J. Lederberg, "DENDRAL-64" Part II. Topology of Cyclic Graphs, NASA Technical Report CR 68898, 1965.

TRIVALENTS	NUMBER OF GRAPHS
2	1
4	2
6	5
8	16
10	66

Table I. Number of  $G(t,o)$  graphs.

GRAPHS HAVING		<u>COUNT</u>	<u>TRIVALENTS IN BASIS GRAPH</u>
<u>TRIVALENTS</u>	<u>QUADRIVALENTS</u>		
2	1	1	4
4	1	5	6
6	1	24	8
8	1	180	10
2	2	4	6
4	2	34	8
6	2	297	10
0	3	4	6
2	3	12	8
4	3	186	10
0	4	3	8
2	4	54	10
0	5	6	10

Table II. SUMMARY OF RESULTS PRESENTED

APPENDIX. THE CATALOG OF  $G(t,q)$  GRAPHS FOR THE THIRTEEN CLASSES PRESENTED  
IN TABLE II.

Explanation of Format:

No attempt has been made to derive canonical numberings for the graphs. Each graph is listed on two lines. The first line is an arbitrary sequence number that begins with 1 for each class presented. The second line is a list of edges. All graphs are undirected.

Disclaimer:

These tables carry no guarantee of accuracy since there is always the possibility of undetected hardware or software errors. There are no known errors prior to the time of this reporting and the author is reasonably sure of the results.

<u>Graphs List</u>		begins on							<u>Page</u>
<u>t</u>	<u>q</u>								
2	1	.	.	.	.	.	.	7	
4	1	.	.	.	.	.	.	8	
6	1	.	.	.	.	.	.	9	
8	1	.	.	.	.	.	.	11	
2	2	.	.	.	.	.	.	19	
4	2	.	.	.	.	.	.	20	
6	2	.	.	.	.	.	.	22	
0	3	.	.	.	.	.	.	34	
2	3	.	.	.	.	.	.	35	
4	3	.	.	.	.	.	.	36	
0	4	.	.	.	.	.	.	44	
-2	4	.	.	.	.	.	.	45	
0	5	.	.	.	.	.	.	48	



CATALOG21 (1 Entry)

1-2 1-2 1-3 1-3 2-3

CATALOG41 (5 Entries)

1							
1-2	1-3	1-4	1-5	2-3	2-5	3-4	4-5
2							
1-2	1-2	1-3	2-4	2-5	3-4	3-5	4-5
3							
1-2	1-3	1-4	1-5	2-3	2-3	4-5	4-5
4							
1-2	1-2	1-3	1-3	2-4	3-5	4-5	4-5
5							
1-2	1-2	1-3	2-3	2-4	3-5	4-5	4-5

.

CATALOG61 (24 Entries)

1	1-2	1-2	1-7	1-7	2-3	3-4	3-4	4-5	5-6	5-6	6-7
2	1-2	1-2	1-7	2-3	3-4	3-4	3-5	4-7	5-6	5-6	6-7
3	1-2	1-2	1-5	1-7	2-3	3-4	3-4	4-5	5-6	6-7	6-7
4	1-2	1-2	1-5	2-3	3-4	3-4	4-5	5-6	5-7	6-7	6-7
5	2-2	1-2	1-7	2-3	2-3	3-f	4-5	4-j	5-6	5-6	6-7
6	1-2	1-2	1-7	2-3	3-4	3-4	4-b	5-6	5-6	5-7	6-7
7	1-2	1-2	1-3	2-3	3-4	3-7	4-5	4-7	S-6	5-6	6-7
8	1-2	1-2	1-7	2-3	3-4	3-7	4-5	4-5	4-6	5-6	6-7
9	t-2	1-2	1-7	2-3	3-4	S-6	4-5	4-7	5-6	5-6	6-7
10	1-2	1-2	1-7	2-3	2-4	3-4	3-7	4-5	5-6	5-6	6-7
11	1-2	1-2	1-4	2-3	3-4	3-5	4-5	4-7	5-6	6-7	6-7
12	1-2	1-2	1-7	2-3	3-4	3-4	3-6	4-3	5-6	5-7	6-7
13	1-2	1-2	1-6	1-7	2-3	3-4	3-4	4-5	5-6	5-7	6-7
14	1-2	1-2	1-7	2-3	2-3	3-4	4-5	4-6	5-6	5-7	6-7
15	1-2	1-3	1-6	1-7	2-3	2-5	3-4	4-5	4-7	5-6	6-7
16	1-2	1-3	1-7	2-3	2-4	2-5	3-4	4-6	5-6	5-7	6-7
17	1-2	1-3	1-7	2-3	2-4	3-4	4-5	4-6	5-6	5-7	6-7
18	1-2	1-2	1-3	1-7	2-3	3-4	4-5	4-c)	5-6	5-7	6-7
19	2-2	1-2	1-3	2-3	3-4	3-7	4-5	4-b	5-6	5-7	6-7
20	1-2	1-2	1-7	2-3	3-4	3-5	3-7	4-5	4-6	5-6	6-7
21	222	12 .	17 .	23 .	3a4	3-5	3a6	4m3	4a7	5-6	6-7
22	1-2	1-2	1-7	2-3	3-4	3-5	4-5	4-6	4-7	5-6	6-7
23	1-2	1-2	1-4	1-7	2-3	3-4	3-6	4-5	5-6	5-7	6-7
a4											

1-2 1-2 1-7 2-3 2-4 3-4 3-6 4-5 5-6 5-7 6-7

CATALOG81 (180 Entries)

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

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25													
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26													
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33													
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46													
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47													
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48													
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50													

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61													
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63													
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64													
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68													
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69													
1-2	1-2	1-0	1-9	2-3	3-4	3-5	4-5	4-9	5-6	6-7	6-7	7-8	8-9
70													
1-2	1-2	1-9	2-3	3-4	3-5	4-5	4-0	5-6	6-7	6-7	6-9	7-8	8-9
71													
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72													
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73													
1-2	1-2	1-6	1-9	2-3	3-4	3-5	4-5	4-9	5-6	6-7	7-a	7-8	8-9
74													
1-2	1-2	1-4	2-3	3-4	3-5	4-5	4-9	5-6	6-7	6-0	7-8	7-9	8-9
75													
1-2	1-2	1-9	2-3	2-4	3-4	3-9	4-5	5-6	5-7	6-7	6-8	7-8	8-9
76													

1-2	1-2	1-9	2-3	3-4	3-5	4-5	4-9	5-6	5-7	6-7	6-8	7-8	8-9
77													
1-2	1-2	1-4	1-9	2-3	3-4	3-5	4-5	5-6	6-7	6-8	7-a	7-9	8-9
78													
1-2	1-2	1-4	1-9	2-3	3-4	3-5	4-5	5-6	6-7	6-9	7-8	7-8	8-9
79													
1-2	1-2	1-9	2-3	2-4	3-4	3-9	4-5	5-6	5-8	6-7	6-7	7-8	8-9
80													
1-2	1-2	1-4	2-3	3-4	3-5	4-5	4-9	5-6	6-7	6-9	7-8	7-8	8-9
81													
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82													
1-2	1-2	1-9	2-3	3-4	3-5	4-5	4-9	5-6	6-7	6-7	6-8	7-8	8-9
83													
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84													
1-2	1-2	1-9	2-3	3-4	3-5	4-5	4-9	5-6	6-7	6-8	7-8	7-8	a-9
85													
1-2	1-2	1-9	2-3	3-4	3-5	4-5	4-5	5-6	6-7	6-9	7-8	7-8	8-9
86													
1-2	1-2	1-9	2-3	3-4	3-5	3-6	4-5	4-5	6-7	6-9	7-a	7-8	8-9
87													
1-2	1-2	1-9	2-3	3-4	3-6	4-5	4-5	5-6	6-7	6-9	7-8	7-a	8-9
88													
1-2	1-2	1-9	2-3	3-4	3-4	3-5	4-5	5-6	6-7	6-9	7-8	7-8	8-9
89													
1-2	1-2	1-7	1-9	2-3	3-4	3-6	4-5	4-5	5-6	6-7	7-8	8-9	8-9
90													
1-2	1-2	1-9	2-3	3-4	3-6	4-5	4-a	4-9	5-6	5-8	6-7	7-a	7-9
91													
1-2	1-2	1-9	2-3	3-4	3-6	4-5	4-8	5-6	5-7	5-8	6-7	7-9	8-9
92													
1-2	1-2	1-9	2-3	3-4	3-5	3-8	4-5	4-7	5-6	6-7	6-9	7-8	8-9
93													
1-2	1-2	3-7	1-9	2-3	3-4	3-6	4-5	4-9	5-6	5-a	6-7	7-8	8-9
94													
1-2	1-2	1-4	1-9	2-3	3-4	3-6	4-5	5-6	5-8	6-7	7-8	7-9	8-9
95													
1-2	1-2	1-9	2-3	2-5	3-4	3-9	4-5	4-7	5-6	6-7	6-8	7-8	8-9
96													
1-2	1-2	1-9	2-3	3-4	3-5	3-9	4-5	4-7	5-6	6-7	6-8	7-8	8-9
97													
1-2	1-2	1-5	2-3	3-4	3-5	3-6	4-5	4-9	5-7	6-7	6-8	7-8	8-9
98													
1-2	1-2	1-4	2-3	3-4	3-6	4-5	4-9	5-6	5-8	6-7	7-8	7-9	8-9
99													
1-2	1-2	1-9	2-3	3-4	3-6	4-5	4-9	5-6	5-7	5-8	6-7	7-8	8-9
100													
1-2	1-2	1-9	2-3	3-4	3-6	4-5	4-9	5-6	5-7	6-7	6-8	7-8	8-9
101													
1-2	1-2	1-9	2-3	3-4	3-5	3-6	4-5	4-9	5-8	6-7	6-7	7-8	a-9
102													



1-2	1-2	1-4	1-9	2-3	3-4	3-6	4-5	5-6	5-9	6-7	7-8	7-8	8-9
103													
1-2	1-2	1-9	2-3	3-4	3-6	4-5	4-5	5-6	5-9	6-7	7-8	7-8	8-9
104													
105	1-2	1-9	2-3	3-4	3-6	3-7	4-5	4-5	5-6	6-9	7-8	7-8	8-9
1-2	1-2	1-9	2-3	3-4	3-4	3-6	4-5	5-6	5-9	6-7	7-8	7-8	8-9
106													
1-2	1-2	1-6	1-9	2-3	3-4	3-7	4-5	4-5	5-6	6-7	7-8	8-9	8-9
107													
1-2	1-2	1-9	2-3	3-4	3-6	3-7	4-5	4-6	5-6	5-9	7-8	7-8	8-9
108													
1-2	1-2	1-9	2-3	2-6	3-4	3-5	4-5	4-9	5-6	6-7	7-8	7-8	8-9
109													
1-2	1-2	1-5	1-9	2-3	3-4	3-7	4-5	4-6	5-6	6-7	7-8	8-9	8-9
110													
1-2	1-2	1-5	1-9	2-3	3-4	3-8	4-5	4-6	5-6	6-7	7-8	7-9	8-9
111													
1-2	1-2	1-9	2-3	3-4	3-8	4-5	4-6	4-9	5-6	5-7	6-7	7-8	8-9
112													
113	1-2	1-9	2-3	3-4	3-6	3-8	4-5	4-9	5-6	5-7	6-7	7-8	8-9
1-2	1-2	1-5	1-9	2-3	3-4	3-9	4-5	4-7	5-6	6-7	6-8	7-8	8-9
114													
1-2	1-2	1-9	2-3	3-4	3-8	4-5	4-7	4-9	5-6	5-6	6-7	7-8	8-9
115													
1-2	1-2	1-5	2-3	3-4	3-9	4-5	4-8	5-6	5-9	6-7	6-7	7-8	8-9
116													
1-2	1-2	1-9	2-3	2-8	3-4	3-7	4-5	4-9	5-6	5-6	6-7	7-8	8-9
117													
1-2	1-2	1-5	1-9	2-3	3-4	3-9	4-5	4-8	5-6	6-7	6-7	7-8	8-9
118													
1-2	1-2	1-4	1-9	2-3	3-4	3-9	4-5	5-6	5-7	6-7	6-8	7-8	8-9
119													
120	1-2	1-3	2-3	3-4	3-9	4-5	4-6	5-6	5-8	6-7	7-8	7-9	8-9
121	1-2	1-9	2-3	3-4	3-9	4-5	4-6	5-6	5-7	5-8	6-7	7-8	8-9
1-2	1-2	1-3	1-9	2-3	3-4	4-5	4-6	5-6	5-8	6-7	7-8	7-9	8-9
122													
122	1-2	1-9	2-3	3-4	3-9	4-5	4-6	4-8	5-6	5-7	6-7	7-8	8-9
1-2	1-2	1-9	2-3	3-4	3-9	4-5	4-6	4-7	5-6	5-8	6-7	7-8	8-9
124													
125	1-2	1-3	2-3	3-4	3-9	4-5	4-7	5-6	5-9	6-7	6-8	7-8	8-9
1-2	1-2	1-3	1-9	2-3	3-4	4-5	4-7	5-6	5-9	6-7	6-8	7-8	8-9
126													
127	1-2	1-9	2-3	3-4	3-9	4-5	4-7	5-6	5-6	5-8	6-7	7-8	8-9
1-2	1-2	1-3	2-3	3-4	3-9	4-5	4-8	5-6	5-9	6-7	6-7	7-8	8-9
128													

1-2	1-2	1-3	1-9	2-3	3-4	4-5	4-8	5-6	5-9	6-7	6-7	7-8	8-9
129													
1-2	1-2	1-3	2-3	3-4	3-9	4-5	4-9	5-6	5-7	6-7	6-8	7-8	8-9
130													
1-2	1-2	1-9	2-3	3-4	3-9	4-5	4-8	4-9	5-6	5-7	6-7	6-8	7-8
131													
1-2	1-2	1-3	1-9	2-3	3-4	4-5	4-9	5-6	5-7	6-7	6-8	7-8	8-9
132													
1-2	1-2	1-9	2-3	3-4	3-9	4-5	4-8	4-9	5-6	5-8	6-7	6-7	7-8
133													
1-2	1-2	1-3	2-3	3-4	3-9	4-5	4-9	5-6	5-8	6-7	6-7	7-8	8-9
134													
1-2	1-2	1-3	1-9	2-3	3-4	4-5	4-9	5-6	5-8	6-7	6-7	7-8	8-9
135													
1-2	1-3	1-9	2-3	2-4	3-4	4-5	5-6	5-7	6-7	6-8	6-9	7-8	8-9
136													
1-2	1-3	1-9	2-3	2-4	3-4	4-5	5-6	5-7	5-8	6-7	6-9	7-8	8-9
137													
1-2	1-3	1-9	2-3	2-4	3-4	4-5	5-6	5-7	5-9	6-7	6-8	7-8	8-9
138													
1-2	1-3	1-5	2-3	2-4	3-4	4-5	5-6	5-9	6-7	6-8	7-8	7-9	8-9
139													
1-2	1-7	1-7	1-8	2-3	2-3	3-4	4-5	4-9	5-6	5-6	6-7	8-9	8-9
140													
1-2	1-2	1-7	1-8	2-3	3-4	3-9	4-5	4-5	5-6	6-7	6-7	8-9	8-9
141													
1-2	1-7	1-8	2-3	2-3	3-4	4-5	4-9	5-6	5-6	6-7	6-7	8-9	8-9
142													
1-2	1-2	1-7	1-8	2-3	3-4	3-9	4-5	4-6	5-6	5-7	6-7	8-9	8-9
143													
1-2	1-7	1-8	2-3	2-3	3-4	4-5	4-9	5-6	5-6	5-7	6-7	8-9	8-9
144													
1-2	1-5	1-8	2-3	2-3	3-4	4-5	4-9	5-6	5-7	6-7	6-7	8-9	8-9
145													
1-2	1-2	1-7	1-8	2-3	3-4	3-9	4-5	4-7	5-6	5-6	6-7	8-9	8-9
146													
1-2	1-4	1-7	2-3	2-3	2-8	3-4	4-5	5-6	5-6	6-7	7-9	8-9	8-9
147													
1-2	1-7	1-8	2-3	2-7	3-4	3-4	4-5	4-9	5-6	5-6	6-7	8-9	8-9
148													
1-2	1-8	1-9	1-9	2-3	2-8	3-4	3-4	4-5	5-6	5-9	6-7	6-7	7-8
149													
1-2	1-2	1-9	2-3	2-3	3-4	4-5	4-7	5-6	5-8	6-7	6-9	7-8	8-9
150													
1-2	1-2	1-7	1-9	2-3	3-4	3-4	4-5	5-6	5-8	6-7	6-9	7-8	8-9
151													
1-2	1-2	1-9	2-3	3-4	3-5	4-5	4-7	4-8	5-6	6-7	6-8	7-9	8-9
152													
1-2	1-2	1-9	2-3	2-4	3-4	3-7	4-5	5-6	5-8	6-7	6-9	7-8	8-9
153													
1-2	1-2	1-7	1-9	2-3	3-4	3-5	4-5	4-8	5-6	6-7	6-9	7-8	8-9
154													

1-2	1-2	1-9	2-3	2-5	3-4	3-6	4-5	4-9	5-6	6-7	7-8	7-8	8-9
155													
1-2	1-2	1-5	1-9	2-3	3-4	3-6	4-5	4-7	5-6	6-7	7-8	8-9	8-9
156													
1-2	1-2	1-9	2-3	3-4	3-6	4-5	4-7	4-8	5-6	5-8	6-7	7-9	8-9
157													
1-2	1-2	1-9	2-3	3-4	3-6	4-5	4-7	5-6	5-8	6-7	6-9	7-0	8-9
158													
1-2	1-2	1-9	2-3	3-4	3-5	3-7	4-5	4-8	5-6	6-7	6-9	7-8	8-9
359													
1-2	1-2	1-7	1-9	2-3	3-4	3-6	4-5	4-8	5-6	5-9	6-7	7-8	8-9
160													
1-2	1-2	a-9	2-3	2-5	3-4	3-7	4-5	4-9	5-6	6-7	6-8	7-8	8-9
161													
1-2	1-2	1-5	1-9	2-3	3-4	3-6	4-5	4-8	5-6	6-7	7-8	7-9	8-9
162													
1-2	1-2	1-5	1-9	2-3	3-4	3-6	4-5	4-9	5-6	6-7	7-8	7-8	8-9
163													
1-2	1-2	1-9	2-3	3-4	3-6	3-8	4-5	4-7	5-6	5-9	6-7	7-8	8-9
164													
1-2	1-2	1-6	1-9	2-3	3-4	3-7	4-5	4-9	5-6	5-8	6-7	7-8	8-9
165													
lw2	lw2	1-9	2-3	3-4	3-6	3-9	4-5	4-7	5-6	5-8	6-7	7-8	8-9
166													
1-2	1-2	1-4	1-9	2-3	3-4	3-7	4-5	5-6	5-8	6-7	6-9	7-8	8-9
167													
1-2	1-2	1-3	2-3	3-4	3-9	4-5	4-7	5-6	5-8	6-7	6-9	7-8	8-9
168													
1-2	1-2	1-3	1-9	2-3	3-4	4-5	4-7	5-6	5-8	6-7	6-9	7-8	8-9
169													
1-2	1-3	1-7	1-9	2-3	2-4	3-4	4-5	5-6	5-8	6-7	6-9	7-8	8-9
170													
1-2	1-3	1-9	2-3	2-5	3-4	4-5	4-7	4-8	5-6	6-7	6-8	7-9	8-9
171													
1-2	1-3	1-9	2-3	2-4	2-5	3-4	4-7	5-6	5-8	6-7	6-9	7-R	8-9
172													
1-2	1-3	1-7	1-9	2-3	2-5	3-4	4-5	4-8	5-6	6-7	6-9	7-8	8-9
173													
1-2	1-3	1-9	2-3	2-5	2-6	3-4	4-5	4-6	5-8	6-7	7-8	7-9	8-9
174													
1-2	1-3	1-8	1-9	2-3	2-6	3-4	4-5	4-7	5-6	5-9	6-7	7-8	8-9
175													
1-2	1-3	1-9	2-3	2-6	3-4	4-5	4-7	4-0	5-6	5-8	6-7	7-9	8-9
176													
1-2	1-3	1-9	2-3	2-5	2-6	3-4	4-5	4-7	5-8	6-7	6-9	7-8	8-9
177													
1-2	1-3	1-7	1-9	2-3	2-6	3-4	4-5	4-8	5-6	5-9	6-7	7-8	8-9
178													
1-2	1-4	1-7	1-9	2-3	2-5	3-4	3-8	4-5	5-6	6-7	6-9	7-8	8-9
179													
1-2	1-4	1-9	2-3	2-5	2-6	3-4	3-7	4-5	5-8	6-7	6-9	7-0	8-9
180													

1-2 1-4 1-7 1-9 2-3 2-6 3-4 3-8 4-5 5-6 5-9 6-7 7-8 8-9

CATALOG22 (4 Entries)

1							
<b>1-2</b>	<b>1-3</b>	<b>1-4</b>	q-3	2-4	3-4	<b>3-4</b>	
<b>1-2</b>	<b>1-2</b>	1-4	2-3	<b>3-4</b>	3-4	<b>3-4</b>	
3							
<b>1-2</b>	1-2	1-4	2-3	2-4	<b>3-4</b>	<b>3-4</b>	
4							
1-2	1-2	<b>1-4</b>	<b>1-4</b>	<b>2-3</b>	3-4	3-4	

CATALOG42 (34 Entries)

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

1-2 <sup>^</sup>	1-6	<b>1-6</b>	2-3	2-3	3-4	3-4	4-5	5-6	5-6	
25	1-2	<b>1-2</b>	<b>1-3</b>	<b>2-3</b>	3-4	3-4	4-5	4-6	<b>5-6</b>	5-6
26	<b>1-2</b>	<b>1-2</b>	<b>1-3</b>	2-4	<b>3-4</b>	3-4	3-6	4-5	5-6	5-6
27	1-2	1-2	1-4	2-3	<b>2-6</b>	3-4	3-4	<b>4-5</b>	5-6	5-6
28	<b>1-2</b>	1-2	1-3	2-3	3-4	3-6	4-5	4-5	5-6	5-6
29	<b>1-2</b>	1-2	1-6	2-3	3-4	3-4	3-6	4-5	5-6	5-6
30	<b>1-2</b>	1-2	1-6	2-3	3-4	3-6	4-5	4-5	5-6	5-6
31	<b>1-2</b>	<b>1-3</b>	<b>1-6</b>	2-3	2-3	3-4	4-5	4-5	5-6	5-6
32	<b>1-2</b>	<b>1-2</b>	<b>1-6</b>	2-3	2-6	<b>3-4</b>	3-4	4-5	5-6	5-6
33	1-2	1-4	1-6	2-3	2-3	2-3	3-4	4-5	5-6	5-6
34	<b>1-2</b>	1-2	1-2	1-6	2-3	3-4	3-4	4-5	5-6	<b>5-6</b>

CATALOG62 (297 Entries)

1  
1-2 1-3 1-8 2-3 2-4 3-5 4-5 4-5 4-7 5-6 6-7 6-8 7-8  
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t-2 1-8 1-8 2-3 2-3 3-4 4-5 4-5 5-6 6-7 6-7 7-8 7-8  
24



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29												
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31												
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43												
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57	1-2	1-3	1-8	2-3	2-4	3-4	4-5	4-8	5-6	5-6	6-7	7-8
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62	1-2	1-4	1-8	2-3	2-5	3-4	3-4	4-5	5-6	6-7	6-7	7-8
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74	1-2	1-3	1-8	2-3	2-4	3-4	4-5	5-6	5-8	6-7	6-7	7-8
75	1-2	1-3	1-4	2-3	2-3	3-4	4-5	4-8	5-6	5-6	6-7	7-8
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81	1-4	1-5	1-8	2-3	2-3	2-4	3-4	4-3	5-6	6-7	6-7	7-8	7-8
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86	1-2	1-4	1-8	2-3	2-3	3-4	4-5	5-6	5-8	6-7	6-7	7-8	7-8
87	1-2	1-3	1-8	2-3	2-8	3-4	3-5	4-5	4-6	5-6	6-7	7-8	7-8
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89	1-2	1-3	1-8	2-3	2-3	3-4	4-5	4-6	5-6	5-7	6-7	7-8	7-8
90	1-2	1-2	1-3	2-3	3-4	3-8	4-5	4-6	5-6	5-7	6-7	7-8	7-8
91	1-2	1-2	1-8	2-3	3-4	3-5	3-8	4-5	4-6	5-6	6-7	7-8	7-8
92	1-2	1-2	1-8	2-3	2-8	3-4	3-5	4-5	4-6	5-6	6-7	7-8	7-8
93	1-2	1-2	1-8	2-3	3-4	3-8	4-5	4-6	5-6	5-7	6-7	7-8	7-8
94	1-2	1-2	1-3	1-8	2-3	3-4	3-5	4-5	4-6	5-6	6-7	7-8	7-8
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98	1-2	1-3	1-8	2-3	2-4	3-6	4-5	4-6	5-6	5-f	6-7	7-8	7-8
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129												
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130												
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132												
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233												
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138												
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141												
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142												
1-2	1-b	E-8	2-3	2-5	3-4	3-4	4-5	5-6	5-7	b-7	7-8	7-8
143												
1-2	1-4	1-5	2-3	2-3	3-4	4-5	4-6	5-b	5-8	6-7	7-8	i-8
144												
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a45												
1-2 146	1-b	1-8	2-3	2-4	3-4	3-4	4-5	5-6	5-7	6-7	7-8	7-8
1-2	1-3	1-5	2-3	2-3	3-4	4-5	4-6	5-6	5-8	6-7	7-8	7-8
147												
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148												
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1-3	1-5	1-8	2-3	2-5	2-8	3-4	4-5	4-7	5-6	6-7	6-8	7-8
290												
1-2	1-3	1-8	2-3	2-5	3-4	4-6	4-7	5-6	5-7	6-7	6-8	7-8
291												
1-2	1-4	1-8	2-3	2-4	3-5	3-7	4-5	4-7	5-6	6-7	6-8	7-8
292												
1-2	1-4	1-8	2-3	2-8	5-5	3-7	4-j	4-7	5-6	6-7	6-8	7-8
293												
1-2	1-3	1-8	2-4	2-5	3-5	3-7	4-5	4-7	5-6	6-7	6-8	7-8
294												
1-2	1-5	1-8	2-3	2-6	3-4	3-8	4-5	4-7	5-6	6-7	6-8	7-8
295												
1-2	1-4	1-8	2-3	2-5	3-7	3-8	4-5	4-7	5-6	6-7	6-8	7-8
296												
1-3	1-6	1-8	2-3	2-6	2-8	3-4	4-3	4-7	5-6	5-8	6-7	7-8
297												
1-3	1-4	1-8	2-3	2-4	2-6	3-7	4-3	4-7	5-6	5-8	6-7	7-8

CATALOG23 (1 Entry)

1-2 1-2 1-3 1-3 2-3 2 3

CATALOG23 (12 Entries)

1	1-2	1-2	1-3	2-3	<b>3-4</b>	3-5	4-5	<b>4-5</b>	<b>4-5</b>
2	<b>1-2</b>	1-2	<b>1-3</b>	<b>1-5</b>	2-3	<b>3-4</b>	4-5	<b>4-5</b>	<b>4-5</b>
3	<b>1-2</b>	1-2	<b>1-3</b>	1-5	<b>2-3</b>	2-3	<b>3-4</b>	<b>4-5</b>	4-5
4	1-2	<b>1-2</b>	<b>1-5</b>	<b>2-3</b>	2-3	<b>3-4</b>	4-5	4-5	4-5
5	<b>1-2</b>	<b>1-2</b>	<b>1-5</b>	2-3	<b>2-4</b>	3-4	3-4	3-5	4-5
6	<b>1-2</b>	1-3	1-4	1-5	<b>2-3</b>	2-3	2-4	3-5	4-5
7	1-2	<b>1-3</b>	<b>1-4</b>	<b>1-5</b>	<b>2-3</b>	2-4	<b>2-5</b>	3-4	4-5
8	1-2	<b>1-2</b>	<b>1-4</b>	<b>1-5</b>	2-3	2-3	<b>3-4</b>	<b>3-5</b>	4-5
9	1-2	<b>1-2</b>	<b>1-5</b>	2-3	<b>2-3</b>	3-4	3-4	4-5	<b>4-5</b>
10	<b>1-2</b>	1-2	<b>1-3</b>	1-5	<b>2-3</b>	2-4	<b>3-4</b>	4-5	4-5
11	1-2	1-2	1-3	<b>1-4</b>	2-3	3-4	3-5	4-5	<b>4-5</b>
12	<b>1-2</b>	<b>1-2</b>	<b>1-3</b>	1-5	2-3	3-4	3-4	4-5	4-5

CATALOG43 (186 Entries)

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

1-2	1-2	1-6	1-7	2-3	2-3	3-4	4-5	4-5	5-6	5-7	6-7
25											
1-2	1-2	1-7	2-3	2-3	3-4	3-4	4-5	5-6	5-6	5-7	6-7
26											
1-2	1-2	1-5	2-3	2-3	3-4	3-4	4-5	5-6	5-7	6-7	6-7
27											
1-2	1-2	1-6	1-7	2-3	3-4	3-4	4-5	4-5	5-6	6-7	6-7
28											
1-2	1-2	1-5	1-7	2-3	2-3	3-4	4-5	4-5	5-6	6-7	6-7
29											
1-2	1-2	1-5	1-7	2-3	2-3	3-4	3-4	4-5	5-6	6-7	6-7
30											
1-2	1-2	1-6	1-7	2-3	2-3	3-4	4-5	4-5	5-6	6-7	6-7
31											
1-2	1-2	1-7	2-3	2-3	3-4	4-5	4-5	5-6	6-7	6-7	6-7
32											
1-2	1-2	1-5	1-7	2-3	3-4	3-4	4-5	4-6	5-6	5-7	6-7
33											
1-2	1-2	1-5	1-7	2-3	2-3	3-4	4-5	4-6	5-6	5-7	6-7
34											
1-2	1-2	1-7	2-3	2-3	3-4	4-5	4-6	5-6	5-6	5-7	6-7
35											
1-2	1-2	1-6	1-7	2-3	3-4	3-4	4-5	5-6	5-7	6-7	6-7
36											
1-2	1-2	1-4	1-7	2-3	2-3	3-4	3-5	4-5	5-6	6-7	6-7
37											
1-2	1-2	1-4	2-3	2-3	3-4	3-5	4-5	4-7	5-6	6-7	6-7
38											
1-2	1-2	1-5	1-7	2-3	2-3	3-4	4-5	4-6	5-6	6-7	6-7
39											
1-2	1-2	1-5	1-7	2-3	3-4	3-4	4-5	4-6	5-6	6-7	6-7
40											
1-2	1-2	1-7	2-3	2-3	3-4	3-5	4-5	4-7	5-6	5-6	6-7
41											
1-2	1-2	1-5	2-3	2-3	3-4	4-5	4-6	5-6	5-7	6-7	6-7
42											
1-2	1-2	1-5	2-3	3-4	3-4	4-5	4-6	5-6	5-7	6-7	6-7
43											
1-2	1-2	1-7	2-3	2-3	3-4	3-5	4-5	4-7	5-6	6-7	6-7
44											
1-2	1-2	1-7	2-3	2-3	3-4	4-5	4-6	5-6	5-7	6-7	6-7
45											
1-2	1-2	1-7	2-3	3-4	3-4	4-5	4-6	5-6	5-7	6-7	6-7
46											
1-2	1-2	1-5	2-3	2-3	3-4	4-5	4-6	4-7	5-6	5-7	6-7
47											
1-2	1-2	1-4	1-7	2-3	2-3	3-4	4-5	4-6	5-6	5-7	6-7
48											
1-2	1-2	1-5	1-7	2-3	2-3	3-4	4-5	4-6	4-7	5-6	6-7
49											
1-2	1-2	1-7	2-3	3-4	3-4	4-5	5-6	5-6	5-7	6-7	6-7
50											

1-2	<b>1-2</b>	<b>1-5</b>	2-3	<b>2-3</b>	3-4	<b>4-5</b>	4-5	<b>4-7</b>	5-6	6-7	6-7
<b>51</b>											
1-2	1-2	1-5	<b>1-7</b>	2-3	3-4	<b>3-4</b>	4-5	<b>4-7</b>	5-6	5-6	6-7
52											
1-2	<b>1-2</b>	<b>1-5</b>	<b>1-7</b>	2-3	2-3	<b>3-4</b>	4-T	<b>4-7</b>	5-6	5-6	<b>6-7</b>
53											
<b>1-2</b>	1-2	1-4	L-7	2-3	2-3	<b>3-4</b>	3-7	<b>4-5</b>	5-6	5-6	<b>6-7</b>
54											
<b>1-2</b>	1-2	1-4	2-3	2-3	3-4	<b>4-5</b>	4-7	<b>5-6</b>	<b>5-6</b>	6-7	<b>6-7</b>
55											
<b>1-2</b>	1-2	1-4	1-7	2-3	2-3	<b>3-4</b>	4-5	<b>4-5</b>	<b>5-6</b>	6-7	<b>6-7</b>
56											
1-2	<b>1-2</b>	1-4	1-7	2-3	3-4	<b>3-4</b>	4-5	5-6	5-6	6-7	6-7
<b>57</b>											
<b>1-2</b>	1-2	<b>1-4</b>	<b>1-7</b>	2-3	2-3	<b>3-4</b>	<b>4-5</b>	5-6	<b>5-6</b>	6-7	6-7
'50											
<b>1-2</b>	<b>1-2</b>	1-3	1-7	<b>2-3</b>	2-3	<b>3-4</b>	4-5	<b>4-6</b>	<b>5-6</b>	5-7	6-7
59											
<b>1-2</b>	<b>1-2</b>	1-4	2-3	2-3	3-4	<b>4-5</b>	4-7	<b>5-6</b>	5-6	5-7	6-7
<b>60</b>											
1-2	1-2	<b>1-7</b>	2-3	2-3	3-4	<b>3-7</b>	4-5	4-5	4-6	5-6	<b>6-7</b>
61											
<b>1-2</b>	1-2	<b>1-4</b>	2-3	<b>2-3</b>	3-4	<b>4-5</b>	<b>4-5</b>	<b>5-6</b>	5-7	6-7	<b>6-7</b>
62											
<b>1-2</b>	1-2	<b>1-5</b>	2-3	<b>3-4</b>	3-4	<b>4-5</b>	<b>5-6</b>	5-7	6-7	6-7	6-7
63											
<b>1-2</b>	1-2	1-7	2-3	<b>2-3</b>	3-4	<b>4-5</b>	4-7	5-6	5-6	5-6	<b>6-7</b>
64											
1-2	<b>1-2</b>	1-4	1-7	<b>2-3</b>	3-4	<b>3-4</b>	4-5	5-6	5-6	5-7	<b>6-7</b>
65											
<b>1-2</b>	1-2	<b>1-4</b>	1-5	<b>2-3</b>	3-4	<b>3-4</b>	<b>4-5</b>	5-6	5-7	6-7	6-7
66											
<b>1-2</b>	1-2	<b>1-4</b>	1-7	<b>2-3</b>	2-3	<b>3-4</b>	4-5	<b>5-6</b>	5-6	<b>5-7</b>	6-7
67											
<b>1-2</b>	1-2	1-3	1-7	2-3	2-3	<b>3-4</b>	4-5	4-7	5-6	5-6	6-7
68											
<b>1-2</b>	1-2	<b>1-4</b>	<b>1-5</b>	2-3	2-3	<b>3-4</b>	4-5	5-6	5-7	6-7	6-7
69											
1-2	<b>1-2</b>	1-5	<b>1-7</b>	<b>2-3</b>	3-4	<b>3-4</b>	4-5	5-6	6-7	6-7	<b>6-7</b>
<b>70</b>											
1-2	1-2	<b>1-5</b>	1-7	<b>2-3</b>	2-4	<b>3-4</b>	3-5	4-5	5-6	6-7	6-7
<b>71</b>											
1-2	<b>1-2</b>	<b>1-6</b>	<b>1-7</b>	<b>2-3</b>	2-4	<b>3-4</b>	3-5	4-5	5-6	6-7	<b>6-7</b>
72											
1-2	1-2	1-7	2-3	<b>2-4</b>	3-4	<b>3-5</b>	<b>4-5</b>	5-6	5-7	6-7	6-7
73											
<b>1-2</b>	1-2	1-7	2-3	<b>2-4</b>	<b>3-4</b>	<b>3-5</b>	4-5	5-6	6-7	6-7	6-7
74											
1-P	<b>1-2</b>	<b>1-7</b>	2-3	<b>2-4</b>	3-4	<b>3-4</b>	<b>3-5</b>	4-6	5-6	<b>5-7</b>	6-7
75											
<b>1-2</b>	<b>1-2</b>	<b>1-6</b>	1-7	<b>2-3</b>	3-4	<b>3-5</b>	4-5	4-5	4-6	5-7	<b>6-7</b>
76											



1-2	<b>1-2</b>	1-6	1-7	2-3	3-4	3-5	4-5	4-6	4-7	<b>5-6</b>	<b>6-7</b>
77											
1-2	1-2	1-5	<b>1-7</b>	<b>2-3</b>	2-4	3-4	<b>3-5</b>	3-6	4-5	6-7	6-7
78											
1-2	<b>1-2</b>	<b>1-4</b>	<b>1-7</b>	2-3	2-4	3-4	<b>3-5</b>	4-5	5-6	6-7	<b>6-7</b>
79											
1-2	1-2	<b>1-5</b>	1-7	2-3	3-4	3-5	<b>4-5</b>	4-5	4-6	6-7	6-7
80											
1-2	1-2	<b>1-7</b>	2-3	2-4	3-4	3-4	3-5	4-7	5-6	5-6	<b>6-7</b>
81											
1-2	<b>1-2</b>	<b>1-4</b>	1-7	<b>2-3</b>	3-4	<b>3-6</b>	4-5	<b>5-6</b>	5-6	5-7	6-7
82											
1-2	<b>1-2</b>	<b>1-5</b>	2-3	2-4	3-4	3-5	3-6	4-5	5-7	6-7	6-7
83											
1-2	1-2	<b>1-5</b>	1-7	<b>2-3</b>	<b>2-4</b>	3-4	3-6	4-5	5-6	6-7	6-7
84											
1-2	1-2	1-5	<b>1-7</b>	<b>2-3</b>	3-4	<b>3-5</b>	4-5	4-6	5-6	6-7	6-7
85											
1-2	<b>1-2</b>	<b>1-7</b>	2-3	2-4	3-4	3-5	4-5	4-7	5-6	5-6	6-7
86											
1-2	1-2	1-5	2-3	2-4	3-4	3-6	4-5	5-6	5-7	6-7	6-7
87											
1-2	1-2	<b>1-7</b>	<b>2-3</b>	2-4	3-4	3-5	<b>3-6</b>	4-5	5-7	6-7	<b>6-7</b>
88											
1-2	1-2	<b>1-7</b>	2-3	3-4	3-5	4-5	<b>4-5</b>	4-6	5-7	6-7	<b>6-7</b>
89											
1-2	1-2	<b>1-7</b>	2-3	2-4	3-4	3-6	4-5	<b>5-6</b>	5-7	6-7	6-7
90											
1-2	1-2	1-5	<b>1-7</b>	2-3	3-4	3-5	4-5	4-6	4-7	5-6	<b>6-7</b>
91											
1-2	1-2	<b>1-7</b>	2-3	<b>2-4</b>	3-4	3-5	3-6	4-5	4-7	5-6	6-7
92											
1-2	<b>1-2</b>	<b>1-6</b>	<b>1-7</b>	<b>2-3</b>	3-4	3-5	<b>4-5</b>	4-6	4-7	5-6	5-7
93											
1-2	1-2	1-5	2-3	<b>2-4</b>	3-4	3-6	3-7	4-5	<b>5-6</b>	5-7	<b>6-7</b>
94											
1-2	<b>1-2</b>	<b>1-7</b>	2-3	2-4	3-4	<b>3-6</b>	3-7	<b>4-5</b>	5-6	5-7	<b>6-7</b>
95											
1-2	1-2	1-7	2-3	<b>2-4</b>	3-4	<b>3-6</b>	3-7	<b>4-5</b>	4-5	<b>5-6</b>	6-7
96											
1-2	<b>1-2</b>	<b>1-3</b>	<b>1-7</b>	2-3	2-4	3-4	3-7	4-5	<b>5-6</b>	5-6	<b>6-7</b>
97											
1-2	1-2	<b>1-4</b>	1-7	<b>2-3</b>	3-4	3-5	4-5	<b>4-7</b>	5-6	5-6	<b>6-7</b>
98											
1-2	<b>1-2</b>	1-6	<b>1-7</b>	2-3	2-4	3-4	3-7	4-5	4-5	5-6	<b>6-7</b>
99											
1-2	1-2	<b>1-7</b>	2-3	2-4	3-4	3-6	3-7	4-5	4-7	5-6	<b>5-6</b>
100											
1-2	1-2	<b>1-7</b>	2-3	2-4	3-4	3-6	3-7	4-5	5-6	5-6	5-7
101											
1-2	1-2	1-4	1-6	<b>2-3</b>	3-4	3-5	4-5	4-7	5-6	6-7	6-7
102											

1-2	1-2	1-5	1-7	2-3	2-4	3-4	3-7	4-5	5-6	5-6	6-7
103											
1-2	1-2	1-3	1-5	2-3	2-4	3-4	3-7	4-5	5-6	6-7	6-7
104											
1-2	1-2	1-3	2-3	2-4	3-4	3-7	4-5	4-6	5-6	5-7	6-7
105											
1-2	1-2	1-3	1-7	2-3	2-4	3-4	4-5	4-7	5-6	5-6	6-7
106											
1-2	1-2	1-3	2-3	2-4	3-4	3-7	4-5	4-7	5-6	5-6	6-7
107											
1-2	1-2	1-3	1-7	2-3	2-4	3-4	4-5	5-6	5-6	5-7	6-7
108											
1-2	1-2	1-3	2-3	2-4	3-4	3-7	4-5	5-6	5-6	5-7	6-7
109											
1-2	1-2	1-3	1-5	2-3	2-4	3-4	4-5	5-6	5-7	6-7	6-7
110											
1-2	1-2	1-3	1-7	2-3	3-4	4-5	4-6	5-6	5-6	5-7	6-7
111											
1-2	1-2	1-3	2-3	2-4	3-4	3-5	4-5	5-6	5-7	6-7	6-7
112											
1-2	1-2	1-3	1-7	2-3	2-4	3-4	4-5	5-6	5-7	6-7	6-7
113											
1-2	1-2	1-3	2-3	2-4	3-4	3-7	4-5	5-6	5-7	6-7	6-7
114											
1-2	1-2	1-4	1-7	2-3	3-4	3-5	4-5	5-6	5-7	6-7	6-7
115											
1-2	1-2	1-7	2-3	2-4	3-4	3-7	4-5	4-6	5-6	5-6	6-7
116											
1-2	1-2	1-4	1-7	2-3	3-4	3-5	4-5	5-6	6-7	6-7	6-7
117											
1-2	1-2	1-7	2-3	2-4	3-4	3-7	4-5	5-6	5-6	5-6	6-7
118											
1-2	1-2	1-4	2-3	3-4	3-5	4-5	4-7	5-6	6-7	6-7	6-7
119											
1-2	1-2	1-7	2-3	3-4	3-4	3-4	4-5	5-6	5-6	5-7	6-7
120											
1-2	1-2	1-5	2-3	3-4	3-4	3-4	4-5	5-6	5-7	6-7	6-7
121											
1-2	1-2	1-5	1-7	2-3	3-4	3-4	3-4	4-5	5-6	6-7	6-7
122											
1-2	1-2	1-5	1-7	2-3	3-4	3-4	3-5	4-5	5-6	6-7	6-7
123											
1-2	1-2	1-6	1-7	2-3	3-4	3-5	4-5	4-5	5-6	6-7	6-7
124											
1-2	1-2	1-6	1-7	2-3	3-4	3-5	3-6	4-5	4-5	6-7	6-7
125											
1-2	1-2	1-6	1-7	2-3	3-4	3-4	3-5	4-5	5-6	6-7	6-7
126											
1-2	1-2	1-5	1-7	2-3	2-4	3-4	3-4	4-5	5-6	6-7	6-7
127											
1-2	1-2	1-5	1-7	2-3	2-5	3-4	3-4	4-5	5-6	6-7	6-7
128											

1-2	1-2	1-7	2-3	3-4	3-4	3-4	4-5	5-6	5-7	6-7	6-7
129											
<del>130</del>	1-2	1-7	2-3	3-4	3-4	3-5	4-5	5-6	5-7	6-7	6-7
1-2	1-2	1-6	2-3	3-4	3-5	3-6	4-5	4-6	4-7	5-7	6-7
131											
1-2	1-2	1-4	1-6	2-3	3-4	3-6	4-5	4-7	5-6	5-7	6-7
132											
1-2	1-2	1-4	1-6	2-3	3-4	3-5	3-6	4-5	4-7	5-7	6-7
133											
1-2	1-2	1-6	1-7	2-3	3-4	3-5	3-7	4-5	4-6	4-7	5-6
134											
1-2	1-2	1-4	1-7	2-3	3-4	3-4	3-5	4-6	5-6	5-7	6-7
135											
1-2	1-2	1-3	1-7	2-3	3-4	3-5	4-5	4-6	4-7	5-6	6-7
136											
1-2	1-2	1-3	2-3	2-5	3-4	3-7	4-5	4-6	5-6	5-7	6-7
137											
1-2	1-2	1-7	2-3	2-5	3-4	3-7	4-5	4-5	4-6	5-6	6-7
138											
1-2	1-2	1-7	2-3	3-4	3-5	3-7	4-5	4-5	4-6	5-6	6-7
139											
1-2	1-2	1-4	1-7	2-3	3-4	3-4	3-5	4-7	5-6	5-6	6-7
140											
1-2	1-2	1-3	1-7	2-3	2-5	3-4	4-5	4-7	5-6	5-6	6-7
141											
1-2	1-2	1-4	1-7	2-3	3-4	3-5	3-6	4-5	5-7	6-7	6-7
142											
1-2	1-2	1-7	2-3	3-4	3-4	3-5	4-7	4-7	5-6	5-6	6-7
143											
1-2	1-2	1-5	2-3	3-4	3-4	3-6	4-5	5-6	5-7	6-7	6-7
144											
1-2	1-2	1-4	1-7	2-3	2-5	3-4	3-4	4-5	5-6	6-7	6-7
145											
1-2	1-2	1-5	1-7	2-3	3-4	3-6	4-5	4-5	5-6	6-7	6-7
146											
1-2	1-2	1-5	1-7	2-3	3-4	3-4	3-6	4-5	5-6	6-7	6-7
147											
1-2	1-2	1-4	1-7	2-3	3-4	3-5	3-5	4-5	5-6	6-7	6-7
148											
1-2	1-2	1-7	2-3	2-6	3-4	3-5	3-7	4-5	4-5	5-6	6-7
149											
1-2	1-2	1-4	2-3	2-7	3-4	3-6	4-5	4-7	5-6	5-6	6-7
150											
1-2	1-2	1-3	2-3	3-4	3-7	4-5	4-6	5-6	5-6	5-7	6-7
151											
1-2	1-2	1-2	1-7	2-3	3-4	3-5	4-5	4-6	4-7	5-6	6-7
152											
1-2	1-2	1-3	2-3	3-4	3-5	4-5	4-6	4-7	5-6	5-7	6-7
153											
1-2	1-2	1-7	2-3	2-7	3-4	3-5	3-6	4-5	4-6	4-7	5-6
154											

1-2	1-2	1-2	1-7	2-3	3-4	3-5	3-7	4-5	4-6	5-6	6-7	
155	1-2	<b>1-2</b>	1-7	<b>2-3</b>	3-4	3-5	3-6	4-5	4-7	5-6	6-7	
156	1-2	<b>1-3</b>	2-3	3-4	3-5	4-5	4-5	4-7	5-6	6-7	<b>6-7</b>	
157	1-2	<b>1-3</b>	<b>1-5</b>	2-3	3-4	4-5	4-5	4-7	5-6	6-7	6-7	
158	<b>1-2</b>	<b>1-2</b>	<b>1-7</b>	<b>2-3</b>	3-4	3-6	4-5	<b>4-5</b>	4-7	5-6	6-7	
159	1-2	1-2	1-3	2-3	3-4	3-7	4-5	<b>4-6</b>	5-6	5-7	6-7	
160	1-2	<b>1-2</b>	<b>1-3</b>	2-3	3-4	3-4	4-5	4-7	5-6	5-6	5-7	6-7
161	1-2	1-2	1-3	2-3	3-4	3-4	4-5	<b>4-5</b>	5-6	5-7	6-7	6-7
162	1-2	1-2	1-7	2-3	2-7	3-4	3-6	3-7	<b>4-5</b>	4-5	<b>4-6</b>	5-6
163	<b>1-2</b>	<b>1-2</b>	1-2	1-3	2-3	<b>3-4</b>	3-7	4-5	4-7	5-6	5-6	6-7
164	1-2	1-f	1-2	1-7	2-3	3-4	3-7	<b>4-5</b>	4-5	4-b	5-6	6-7
165	<b>1-2</b>	1-2	<b>1-2</b>	1-7	2-3	3-4	3-7	4-5	4-6	4-7	5-6	5-6
166	1-2	<b>1-2</b>	1-5	1-7	2-3	2-3	3-4	3-6	<b>4-5</b>	4-7	5-6	6-7
167	1-2	1-2	1-7	2-3	<b>2-4</b>	3-4	3-5	3-6	4-5	4-6	5-7	6-7
168	<b>1-2</b>	1-2	<b>1-6</b>	<b>1-7</b>	2-3	2-4	3-4	3-6	3-7	4-5	5-6	5-7
169	1-2	<b>1-2</b>	<b>1-4</b>	1-7	2-3	2-5	3-4	<b>3-6</b>	4-5	5-6	6-7	6-7
170	<b>1-2</b>	1-2	1-5	1-7	2-3	3-4	3-6	<b>4-5</b>	4-5	4-7	5-6	6-7
171	<b>1-2</b>	<b>1-2</b>	<b>1-4</b>	1-4	2-3	3-4	3-5	3-7	4-5	4-7	5-6	<b>6-7</b>
172	1-2	1-2	1-6	<b>1-7</b>	2-3	2-5	3-4	3-6	3-7	4-5	4-7	<b>5-6</b>
173	<b>1-2</b>	1-2	<b>1-5</b>	<b>1-7</b>	2-3	2-5	3-4	<b>3-6</b>	4-5	4-7	5-6	<b>6-7</b>
174	1-2	<b>1-3</b>	1-6	1-7	2-3	2-5	3-4	4-5	<b>4-6</b>	4-7	5-6	5-7
175	1-2	<b>1-3</b>	1-6	<b>1-7</b>	2-3	2-4	2-5	<b>3-4</b>	4-6	4-7	5-6	5-7
176	<b>1-2</b>	1-3	1-7	2-3	2-4	<b>2-5</b>	3-4	3-5	4-6	4-7	5-6	6-7
177	1-2	1-3	1-5	1-7	2-3	2-5	2-6	3-4	4-5	4-6	5-7	6-7
178	1-2	1-4	1-6	1-7	2-3	2-5	3-4	3-6	3-7	4-5	5-6	5-7
179	1-2	1-6	1-7	<b>1-7</b>	2-3	2-3	3-4	3-7	4-5	4-5	5-6	5-6
180												

<b>1-2</b>	<b>1-5</b>	<b>1-5</b>	1-6	2-3	2-3	3-4	3-7	4-5	4-5	6-7	6-7
<b>181</b>											
1-2	1-6	1-7	1-7	2-3	2-3	3-4	3-7	<b>4-5</b>	4-5	4-6	<b>5-6</b>
<b>182</b>											
<b>183</b>	<b>1-4</b>	<b>1-7</b>	1-7	2-3	2-3	3-4	3-7	<b>4-5</b>	<b>4-6</b>	5-6	<b>5-6</b>
1-2	1-2	<b>1-5</b>	<b>1-6</b>	2-3	3-4	3-7	4-5	<b>4-5</b>	4-5	6-7	6-7
<b>184</b>											
<b>1-2</b>	<b>1-4</b>	1-6	2-3	2-7	2-7	3-4	3-4	<b>4-5</b>	<b>5-6</b>	5-6	<b>6-7</b>
<b>185</b>											
1-2	1-6	<b>1-7</b>	1-7	2-3	2-3	2-6	<b>3-4</b>	4-5	4-5	4-7	5-6
<b>186</b>											
1-2	1-6	1-7	<b>1-7</b>	2-3	2-3	2-6	3-4	4-5	4-7	5-6	5-6

CATALOG64 (3 Entries)

1									
1-2	1-2	1-4	1-4	2-3	2-3	3-4	3-4	3-4	
2									
1-2	1-2	1-2	1-4	2-3	3-4	3-4	3-4	3-4	
3									
1-2	1-2	1-3	1-4	2-3	2-4	3-4	3-4	3-4	

CATALOG24 (54 Entries)

1	1-2	1-3	1-4	2-4	2-5	3-4	<b>3-5</b>	3-6	4-5	4-6	5-6
2	<b>1-2</b>	<b>1-4</b>	1-b	<b>2-3</b>	<b>2-5</b>	3-4	3-4	<b>3-6</b>	4-5	<b>5-6</b>	<b>5-6</b>
3	1-3	1-4	1-6	<b>2-3</b>	2-4	2-6	3-4	3-5	4-5	5-6	5-6
4	1-2	<b>1-3</b>	1-6	2-3	2-6	3-4	3-5	4-5	4-5	4-6	5-6
5	<b>1-2</b>	<b>1-3</b>	1-6	2-3	2-5	2-6	3-4	3-5	4-5	4-6	5-6
6	1-2	1-3	1-6	2-3	2-4	<b>3-5</b>	<b>3-6</b>	4-5	4-5	4-6	5-6
7	1-2	<b>1-3</b>	<b>1-6</b>	2-3	2-3	<b>2-4</b>	3-5	4-5	4-5	4-6	5-6
8	<b>1-2</b>	<b>1-3</b>	1-3	1-6	2-3	2-4	3-5	4-5	4-5	4-6	5-6
9	r-2	1-2	1-5	1-6	<b>2-3</b>	2-3	3-4	3-6	4-5	4-6	5-6
10	1-2	<b>1-5</b>	<b>1-6</b>	2-3	<b>2-3</b>	2-5	3-4	<b>3-6</b>	4-5	4-6	5-6
11	1-2	<b>1-5</b>	1-6	2-3	2-4	3-4	3-6	<b>3-6</b>	<b>4-5</b>	4-5	5-6
12	1-2	1-3	1-5	2-3	2-4	<b>3-6</b>	3-6	4-5	4-5	<b>4-6</b>	<b>5-6</b>
13	1-2	<b>1-3</b>	<b>1-5</b>	2-3	<b>2-5</b>	3-4	3-4	4-6	4-6	5-6	5-6
14	1-2	<b>1-6</b>	<b>1-6</b>	2-3	2-3	3-4	3-4	4-5	4-5	5-6	5-6
15	1-2	1-2	1-6	2-3	3-4	3-4	3-6	<b>4-5</b>	4-5	5-6	5-6
16	1-2	<b>1-2</b>	<b>1-6</b>	<b>2-3</b>	<b>2-6</b>	3-4	<b>3-4</b>	4-5	4-5	<b>5-6</b>	5-6
17	1-2	<b>1-2</b>	<b>1-2</b>	<b>1-6</b>	<b>2-3</b>	<b>3-4</b>	<b>3-4</b>	4-5	4-5	5-6	5-6
18	<b>1-2</b>	1-2	1-3	<b>1-6</b>	<b>2-3</b>	2-6	3-4	4-5	4-5	5-6	5-6
19	1-2	1-3	1-6	2-3	2-6	3-4	3-4	4-5	5-6	5-6	5-6
20	<b>1-2</b>	1-2	1-6	<b>2-3</b>	<b>2-4</b>	3-4	3-6	4-5	4-5	T-6	5-6
21	1-2	1-2	1-3	2-3	<b>2-4</b>	3-4	<b>3-6</b>	4-5	4-5	5-6	5-6
22	1-2	1-2	<b>1-3</b>	<b>1-6</b>	2-3	<b>2-4</b>	<b>3-4</b>	4-5	4-5	<b>5-6</b>	5-6
23	<b>1-2</b>	1-2	<b>1-3</b>	1-4	<b>2-3</b>	2-3	3-4	<b>4-5</b>	4-5	5-6	<b>5-6</b>
24											





1-2	1-2	1-4	2-3	3-4	3-4	3-6	4-5	5-6	5-6	5-6
51										
1-2	1-3	1-4	2-3	2-3	3-4	4-5	4-6	5-6	5-6	5-6
52										
1-2	1-2	1-3	2-3	3-4	3-4	4-5	4-6	5-6	5-6	5-6
53										
1-2	1-4	1-6	2-3	2-3	2-3	3-4	4-5	5-6	5-6	5-6
54										
1-4	1-6	1-6	2-3	2-3	2-3	2-6	3-4	4-5	4-5	5-6

CATALOGUE (6 Entries)

1										
1-2	1-2	1-2	1-5	2-3	3-4	3-4	3-5	4-5	4-5	
2										
1-2	1-2	1-5	1-5	2-3	2-3	3-4	3-4	4-5	4-5	
3										
1-2	1-2	1-5	1-5	2-3	2-5	3-4	3-4	4-5	4-5	
4										
1-2	1-3	1-4	1-5	2-3	2-3	2-4	3-5	4-5	4-5	
5										
1-2	1-3	1-4	1-5	2-3	2-4	2-5	3-4	3-5	4-5	
6										
1-2	1-2	1-2	1-5	2-5	3-4	3-4	3-4	3-5	4-5	