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Editorial Board

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C

EG continues its series of complete lists of reciprocal zugzwangs in endings up to 5 men with no more than one pawn. The following, extracted from the appropriate Ken Thompson database by ace programmer Lars Rasmussen of Denmark, displays for the first time all 3130 reci-zugs in the endgame two knights against pawn. The list reads as follows: wK,wS,wS; bK,bP, result when white has the move; result when black has to move. In this = denotes a draw and a number gives the number of moves for the other player needs to win.

1: a8,a6,b8; b6,a7; =:59	44: h7,c7,g8; f7,a6; =:97	87: a5,c1,d3; d2,a6; =:88
2: b8,a8,c2; c6,a7; =:96	45: c6,g5,h8; b3,a6; =:20	88: d5,c1,h7; b6,a6; =:81
3: c8,a8,d7; d6,a7; =:94	46: c6,f4,h8; b8,a6; =:20	89: d5,c1,h5; b6,a6; =:81
4: b7,c8,d1; a5,a7; =:86	47: c6,g3,h8; b8,a6; =:20	90: d5,c1,h3; b6,a6; =:81
5: a6,a8,c7; b8,a7; =:70	48: c6,f2,h8; b8,a6; =:20	91: d5,b3,h3; b5,a6; =:85
6: a6,a8,c6; c8,a7; =:71	49: c6,g1,h8; b8,a6; =:20	92: d5,c1,f8; b5,a6; =:83
7: a6,c7,e8; d8,a7; =:98	50: c6,a3,c5; c3,a6; =:94	93: d5,c1,h2; b5,a6; =:85
8: a6,c8,d6; c7,a7; =:94	51: d6,f6,g3; d8,a6; =:29	94: d5,d1,g1; b4,a6; =:73
9: a6,c7,d5; c6,a7; =:94	52: d6,f6,g1; d8,a6; =:29	95: h5,e7,h4; h3,a6; =:96
10: a6,c4,d6; c5,a7; =:95	53: d6,f2,f6; d8,a6; =:29	96: h5,f6,h4; h3,a6; =:98
11: a6,c4,e5; d5,a7; =:95	54: d6,c1,f6; d8,a6; =:29	97: a4,c7,d5; d7,a6; =:96
12: a6,b3,c5; b4,a7; =:99	55: d6,b3,h3; b6,a6; =:86	98: d4,d8,f3; d1,a6; =:93
13: a6,c5,e4; d4,a7; =:86	56: d6,d5,h7; b6,a6; =:62	99: f4,c1,f2; h5,a6; =:91
14: a6,b2,c4; b3,a7; =:94	57: d6,d5,h5; b6,a6; =:46	100: f4,c1,h2; h5,a6; =:91
15: a6,b1,c3; b2,a7; =:87	58: d6,d3,h3; b6,a6; =:46	101: f4,c7,e3; d4,a6; =:97
16: a6,c1,d3; d2,a7; =:90	59: d6,g3,g5; b6,a6; =:75	102: c3,b8,c8; b5,a6; =:95
17: c6,a8,c7; b8,a7; =:22	60: d6,a2,h1; b6,a6; =:92	103: c3,b8,e8; b5,a6; =:95
18: d6,b8,c1; b6,a7; =:98	61: d6,f2,g5; b6,a6; =:72	104: d3,b8,h2; d1,a6; =:79
19: d6,c1,d3; b5,a7; =:97	62: d6,c1,h8; b6,a6; =:94	105: d3,d8,h2; d1,a6; =:79
20: a5,c7,e8; d7,a7; =:99	63: d6,c1,g7; b6,a6; =:84	106: e3,a7,d2; c3,a6; =:95
21: d5,c8,d7; d5,a7; =:96	64: d6,c1,h6; b6,a6; =:86	107: e3,a7,e1; c3,a6; =:97
22: e3,c8,f4; e5,a7; =:92	65: d6,c1,g5; b6,a6; =:72	108: e3,c7,e1; c3,a6; =:97
23: f3,c1,f2; h4,a7; =:93	66: d6,c1,h4; b6,a6; =:90	109: e3,b8,h8; g2,a6; =:90
24: c8,b3,c7; c6,a6; =:95	67: d6,c1,g3; b6,a6; =:72	110: e3,d8,h8; g2,a6; =:95
25: d8,g3,g3; b8,a6; =:77	68: d6,c1,f2; b6,a6; =:72	111: f3,c7,e3; d3,a6; =:96
26: d8,f2,g5; b8,a6; =:74	69: d6,c1,h2; b6,a6; =:86	112: f2,c7,e1; d2,a6; =:98
27: d8,g1,g5; b8,a6; =:77	70: d6,c1,g1; b6,a6; =:73	113: a1,a3,b1; b3,a6; =:95
28: d8,b3,c7; d6,a6; =:96	71: d6,g1,g5; b6,a6; =:75	114: f1,a2,e1; d2,a6; =:98
29: f8,f7,g7; f6,a6; =:97	72: d6,c1,c6; b5,a6; =:54	115: d8,d5,f8; b8,a5; =:37
30: c7,a7,d6; d5,a6; =:93	73: d6,c7,e5; d4,a6; =:89	116: d8,d5,g7; b8,a5; =:37
31: d7,b3,h3; b7,a6; =:87	74: e6,c1,d7; b5,a6; =:96	117: d8,b3,g5; b8,a5; =:85
32: d7,g3,g5; b7,a6; =:76	75: e6,c7,f5; e4,a6; =:92	118: d8,d3,g5; b8,a5; =:63
33: d7,f2,g5; b7,a6; =:73	76: a5,c7,e8; d8,a6; =:97	119: d8,e2,g5; b8,a5; =:76
34: d7,c1,f8; b7,a6; =:85	77: a5,a7,c8; b7,a6; =:89	120: d8,c1,h7; b8,a5; =:85
35: d7,c1,h2; b7,a6; =:87	78: a5,a7,c6; b7,a6; =:90	121: d8,c1,h5; b8,a5; =:85
36: d7,c1,g1; b7,a6; =:74	79: a5,a7,c5; c7,a6; =:85	122: d8,c1,h3; b8,a5; =:85
37: d7,g1,g5; b7,a6; =:76	80: a5,c7,d5; c6,a6; =:93	123: e8,b3,d4; c8,a5; =:33
38: d7,a2,g5; b6,a6; =:83	81: a5,c4,d6; c5,a6; =:94	124: d7,c1,h2; b8,a5; =:85
39: d7,a2,g3; b6,a6; =:92	82: a5,c5,e6; d5,a6; =:95	125: d7,c1,g1; b8,a5; =:74
40: d7,c1,c6; b6,a6; =:56	83: a5,c5,e4; d4,a6; =:85	126: d7,b3,g5; b7,a5; =:84
41: e7,c1,g1; a7,a6; =:75	84: a5,c4,d2; d3,a6; =:92	127: d7,b3,c1; b7,a5; =:84
42: e7,c1,d8; c7,a6; =:75	85: a5,a2,b4; b2,a6; =:89	128: d7,d3,g5; b7,a5; =:62
43: f7,a7,e8; d7,a6; =:94	86: a5,b1,c3; b2,a6; =:85	129: d7,a2,g5; b7,a5; =:73

130: d7,a2,h4; b7,a5; =:92	204: d6,c1,d5; b6,a5; =:45	278: f5,a2,f7; h5,a5; =:68
131: d7,a2,g3; b7,a5; =:92	205: d6,c1,f3; b6,a5; =:83	279: f5,a2,g4; h5,a5; =:66
132: d7,a2,h2; b7,a5; =:92	206: d6,c1,h3; b6,a5; =:83	280: f5,e2,g8; h5,a5; =:64
133: d7,a2,g1; b7,a5; =:92	207: d6,c1,e2; b6,a5; =:72	281: f5,e2,f7; h5,a5; =:68
134: d7,e2,g5; b7,a5; =:75	208: d6,c1,d1; b6,a5; =:72	282: f5,e2,g4; h5,a5; =:64
135: d7,c1,h7; b7,a5; =:84	209: e6,a2,c1; b6,a5; =:72	283: f5,d1,g8; h5,a5; =:65
136: d7,c1,e6; b7,a5; =:84	210: e6,c1,e2; b6,a5; =:73	284: f5,d1,f7; h5,a5; =:68
137: d7,c1,h5; b7,a5; =:84	211: e6,c1,d1; b6,a5; =:74	285: f5,d1,g4; h5,a5; =:65
138: d7,c1,f3; b7,a5; =:84	212: f6,a2,g8; f2,a5; =:90	286: f5,a2,d8; h4,a5; =:91
139: d7,c1,h3; b7,a5; =:84	213: f6,a2,c8; f2,a5; =:90	287: f5,a2,h8; h4,a5; =:91
140: d7,c1,e2; b7,a5; =:73	214: f6,a2,b7; f2,a5; =:92	288: f5,a2,h6; h4,a5; =:91
141: d7,a2,e4; b6,a5; =:94	215: g6,d5,e4; g4,a5; =:75	289: f5,a2,g5; h4,a5; =:91
142: e7,c1,e2; a7,a5; =:74	216: g6,d5,e2; g4,a5; =:75	290: f5,a2,f2; h4,a5; =:93
143: e7,a2,d8; c7,a5; =:74	217: g6,b3,d5; g4,a5; =:75	291: f5,a2,h2; h4,a5; =:93
144: f7,a2,a8; f1,a5; =:91	218: h6,d5,e4; h4,a5; =:76	292: f5,a2,g8; f3,a5; =:90
145: f7,a2,c8; f1,a5; =:91	219: h6,d5,e2; h4,a5; =:76	293: f5,a2,c8; f3,a5; =:90
146: f7,a2,b7; f1,a5; =:92	220: h6,b3,d5; h4,a5; =:76	294: f5,a2,b7; f3,a5; =:92
147: c6,d5,h8; b8,a5; =:19	221: h6,d1,d5; h4,a5; =:76	295: f5,a2,d5; f3,a5; =:70
148: c6,e4,h8; b8,a5; =:19	222: b5,a6,g4; a7,a5; =:34	296: f5,a2,d1; f3,a5; =:87
149: c6,b3,h8; b8,a5; =:19	223: b5,c6,f6; b7,a5; =:97	297: f5,d1,d5; f3,a5; =:79
150: c6,d3,h8; b8,a5; =:19	224: c5,a2,g8; b7,a5; =:31	298: g5,d5,h4; g3,a5; =:98
151: c6,e2,h8; b8,a5; =:19	225: c5,d3,f6; c7,a5; =:30	299: g5,b3,d4; g3,a5; =:63
152: c6,d1,h8; b8,a5; =:19	226: c5,b5,b7; b3,a5; =:88	300: g5,c1,e7; g3,a5; =:83
153: c6,a6,f6; c8,a5; =:29	227: d5,a2,e6; b6,a5; =:32	301: g5,d1,d5; g3,a5; =:71
154: c6,b3,b7; c8,a5; =:9	228: d5,a2,e2; b6,a5; =:89	302: h5,d5,h4; h3,a5; =:86
155: c6,b3,f7; c8,a5; =:9	229: d5,e2,e6; b6,a5; =:72	303: h5,e4,h4; h3,a5; =:64
156: c6,b3,f6; c8,a5; =:29	230: d5,c1,g8; b6,a5; =:80	304: h5,b3,d4; h3,a5; =:64
157: c6,d3,f6; c8,a5; =:29	231: d5,c1,f8; b6,a5; =:83	305: h5,e2,h4; h3,a5; =:64
158: c6,e2,f6; c8,a5; =:29	232: d5,c1,g7; b6,a5; =:83	306: h5,d1,h4; h3,a5; =:64
159: c6,d1,f6; c8,a5; =:29	233: d5,c1,g5; b6,a5; =:80	307: a4,a7,b5; b7,a5; =:96
160: d6,c1,h7; b8,a5; =:63	234: d5,c1,i4; b6,a5; =:80	308: a4,a6,c5; b6,a5; =:98
161: d6,a6,d5; c8,a5; =:27	235: d5,b3,g5; b5,a5; =:82	309: a4,a8,e8; c6,a5; =:99
162: d6,a2,g8; c8,a5; =:29	236: d5,b3,c1; b5,a5; =:82	310: a4,a8,e6; c6,a5; =:99
163: d6,c1,f6; c8,a5; =:29	237: d5,c3,f4; b5,a5; =:44	311: a4,a8,c4; c6,a5; =:97
164: d6,a8,c1; d8,a5; =:89	238: d5,a2,g8; b5,a5; =:90	312: a4,a8,d8; d6,a5; =:98
165: d6,a6,f6; d8,a5; =:28	239: d5,a2,h2; b5,a5; =:90	313: a4,a6,b8; d6,a5; =:98
166: d6,a6,c1; d8,a5; =:89	240: d5,a2,g1; b5,a5; =:90	314: a4,g8,h8; e6,a5; =:100
167: d6,d5,f6; d8,a5; =:28	241: d5,c1,d7; b5,a5; =:82	315: a4,a8,b6; c5,a5; =:98
168: d6,e4,f6; d8,a5; =:28	242: d5,c1,h7; b5,a5; =:82	316: a4,b6,c4; c5,a5; =:96
169: d6,b3,c7; d8,a5; =:24	243: d5,c1,c6; b5,a5; =:53	317: a4,c6,e5; d5,a5; =:98
170: d6,b3,g7; d8,a5; =:24	244: d5,c1,e6; b5,a5; =:82	318: a4,h7,h8; f5,a5; =:101
171: d6,b3,f6; d8,a5; =:28	245: d5,c1,h5; b5,a5; =:82	319: a4,h1,h2; f4,a5; =:102
172: d6,d3,f6; d8,a5; =:28	246: d5,c1,d3; b5,a5; =:44	320: a4,c4,e3; d3,a5; =:94
173: d6,a2,f6; d8,a5; =:28	247: d5,c1,f3; b5,a5; =:82	321: a4,g1,h1; e3,a5; =:104
174: d6,e2,f6; d8,a5; =:28	248: d5,c1,h3; b5,a5; =:82	322: a4,a2,c4; c2,a5; =:93
175: d6,c1,d5; d8,a5; =:89	249: d5,b2,c1; b4,a5; =:83	323: a4,a2,e5; d2,a5; =:94
176: d6,d1,f6; d8,a5; =:28	250: d5,c1,d4; b4,a5; =:87	324: a4,a2,b2; d2,a5; =:94
177: d6,c6,e6; b7,a5; =:29	251: d5,d1,e2; b4,a5; =:72	325: a4,a2,g1; d2,a5; =:102
178: d6,c1,f8; b7,a5; =:84	252: d5,c1,f5; f2,a5; =:91	326: c4,c1,e6; b6,a5; =:92
179: d6,c1,g7; b7,a5; =:84	253: e5,a2,d6; d3,a5; =:90	327: c4,a6,f3; c2,a5; =:91
180: d6,c1,g5; b7,a5; =:62	254: e5,a2,b7; e3,a5; =:91	328: c4,c6,f3; c2,a5; =:91
181: d6,a6,c7; b6,a5; =:28	255: e5,a2,f7; e3,a5; =:91	329: d4,a6,g1; d2,a5; =:84
182: d6,b3,g5; b6,a5; =:83	256: e5,a2,c6; e3,a5; =:93	330: d4,a6,t3; d1,a5; =:92
183: d6,b3,c1; b6,a5; =:83	257: e5,a2,e4; e3,a5; =:91	331: d4,c6,t3; d1,a5; =:92
184: d6,d3,g5; b6,a5; =:61	258: e5,a2,b3; e3,a5; =:93	332: e4,b3,f7; g4,a5; =:75
185: d6,d3,f4; b6,a5; =:45	259: f5,a6,g8; h5,a5; =:86	333: e4,a2,d8; g3,a5; =:90
186: d6,a2,b8; b6,a5; =:91	260: f5,a6,f7; h5,a5; =:85	334: e4,a2,g5; g3,a5; =:90
187: d6,a2,d8; b6,a5; =:73	261: f5,a6,g4; h5,a5; =:85	335: e4,a6,f5; f2,a5; =:74
188: d6,a2,g5; b6,a5; =:72	262: f5,c6,g8; h5,a5; =:74	336: e4,c6,f5; f2,a5; =:74
189: d6,a2,h4; b6,a5; =:91	263: f5,c6,f7; h5,a5; =:80	337: e4,d5,f5; f2,a5; =:66
190: d6,a2,g3; b6,a5; =:91	264: f5,c6,g4; h5,a5; =:74	338: e4,b3,f5; f2,a5; =:74
191: d6,a2,f2; b6,a5; =:94	265: f5,d5,g8; h5,a5; =:66	339: f4,c1,g4; h5,a5; =:90
192: d6,a2,h2; b6,a5; =:91	266: f5,d5,f7; h5,a5; =:68	340: f4,a6,t7; h4,a5; =:86
193: d6,a2,c1; b6,a5; =:70	267: f5,d5,g4; h5,a5; =:66	341: f4,a6,g7; h4,a5; =:79
194: d6,a2,g1; b6,a5; =:91	268: f5,e4,g8; h5,a5; =:64	342: f4,a6,g3; h4,a5; =:79
195: d6,e2,g5; b6,a5; =:74	269: f5,e4,f7; h5,a5; =:68	343: f4,c6,f7; h4,a5; =:81
196: d6,c1,e8; b6,a5; =:83	270: f5,e4,g4; h5,a5; =:64	344: f4,c6,g7; h4,a5; =:78
197: d6,c1,f7; b6,a5; =:83	271: f5,b3,g8; h5,a5; =:70	345: f4,c6,g3; h4,a5; =:78
198: d6,c1,h7; b6,a5; =:83	272: f5,b3,f7; h5,a5; =:72	346: f4,d5,f7; h4,a5; =:69
199: d6,c1,c6; b6,a5; =:54	273: f5,b3,g4; h5,a5; =:70	347: f4,d5,g7; h4,a5; =:57
200: d6,c1,e6; b6,a5; =:83	274: f5,d3,g8; h5,a5; =:66	348: f4,d5,g3; h4,a5; =:57
201: d6,c1,f5; b6,a5; =:83	275: f5,d3,t7; h5,a5; =:70	349: f4,e4,t7; h4,a5; =:69
202: d6,c1,h5; b6,a5; =:83	276: f5,d3,g4; h5,a5; =:66	350: f4,e4,g7; h4,a5; =:57
203: d6,c1,e4; b6,a5; =:71	277: f5,a2,g8; h5,a5; =:66	351: f4,e4,g3; h4,a5; =:57

352: f4,b2,f7; h4,a5; =:73	426: e1,b3,f7; g1,a5; =:78	500: d6,a2,e4; b6,a4; =:93
353: f4,b3,g7; h4,a5; =:57	427: e1,c1,f8; g1,a5; =:95	501: d6,a2,f3; b6,a4; =:90
354: f4,b3,g3; h4,a5; =:57	428: e1,c1,h8; g1,a5; =:95	502: d6,a2,e2; b6,a4; =:90
355: f4,d5,f7; h4,a5; =:71	429: d8,b4,d4; b8,a4; =:31	503: d6,a2,d1; b6,a4; =:93
356: f4,d5,g7; h4,a5; =:57	430: d8,c3,f8; b8,a4; =:36	504: d6,c1,c7; b6,a4; =:27
357: f4,d3,g3; h4,a5; =:57	431: d8,c3,g7; b8,a4; =:36	505: d6,c1,g5; b6,a4; =:60
358: f4,a2,g7; h4,a5; =:55	432: d8,c3,g5; b8,a4; =:36	506: d6,c1,d4; b6,a4; =:29
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632: e3,c1,h8; g2,a4; =:73	706: f5,a2,c4; f3,a3; =:65	780: b6,h1,h2; f4,b7; =:70
633: e3,c1,e2; g2,a4; =:60	707: f5,a2,g4; f3,a3; =:65	781: b6,a1,e1; c3,b7; =:73
634: f3,b4,f7; h3,a4; =:73	708: g5,a2,d5; g3,a3; =:68	782: b6,a1,b1; d3,b7; =:68
635: f3,b4,g2; h3,a4; =:43	709: g5,a2,d4; g3,a3; =:57	783: b6,g1,h1; e3,b7; =:70
636: f3,c3,f7; h3,a4; =:69	710: g5,a2,h4; g3,a3; =:61	784: e6,a5,d4; c7,b7; =:52
637: f3,c3,g2; h3,a4; =:41	711: h5,a2,d5; h3,a3; =:69	785: e6,c5,d4; c7,b7; =:52
638: f3,c1,f7; h3,a4; =:71	712: h5,a2,d4; h3,a3; =:58	786: a5,b3,d7; a8,b7; =:10
639: f3,c1,g2; h3,a4; =:41	713: h5,a2,h4; h3,a3; =:62	787: b5,b8,d7; a7,b7; =: 9
640: a2,c5,e5; c1,a4; =:98	714: c4,a2,b8; a4,a3; =: 9	788: d5,c2,c4; a6,b7; =:64
641: a2,a1,e3; c1,a4; =:97	715: d4,a2,c4; c2,a3; =:28	789: a4,b4,f6; b6,b7; =:66
642: d2,a6,c1; a3,a4; =: 8	716: e4,a2,f7; g4,a3; =:66	790: b4,b8,e6; b6,b7; =:23
643: d2,c1,d5; a3,a4; =: 9	717: e4,a2,f5; f2,a3; =:56	791: f3,a5,f5; h2,b7; =:11
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646: d2,c1,f1; b1,a4; =:25	720: f4,a2,g3; h4,a3; =:50	794: e8,a6,f4; g8,b6; =:13
647: e2,b4,f7; g2,a4; =:76	721: f4,a2,e2; h3,a3; =:53	795: e8,c3,f4; g8,b6; =:13

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797: f8,a6,f4; h8,b6; =:12	871: d6,f5,h5; c8,b6; =:15	945: d6,b3,b4; d8,b6; =:23
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799: d7,b4,f5; f8,b6; =:18	873: d6,a4,a8; c8,b6; =:15	947: d6,d5,f6; d8,b6; =:12
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803: e7,d3,f4; g7,b6; =:12	877: d6,a4,f5; c8,b6; =:15	951: d6,d5,g3; d8,b6; =:20
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806: f7,a2,f4; h7,b6; =:11	880: d6,c4,e4; c8,b6; =:15	954: d6,a2,f6; d8,b6; =:12
807: a6,b5,b8; d5,b6; =:54	881: d6,e4,e8; c8,b6; =:17	955: d6,a2,h6; d8,b6; =:20
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811: a6,c2,e4; a6,b6; =:53	885: d6,d3,e8; c8,b6; =:15	959: d6,c2,e7; d8,b6; =:17
812: c6,d5,h1; b8,b6; =:22	886: d6,d3,g8; c8,b6; =:15	960: d6,c2,f6; d8,b6; =:12
813: c6,d5,h1; b8,b6; =:22	887: d6,d5,g6; c8,b6; =:18	961: d6,c2,h6; d8,b6; =:20
814: c6,a2,d1; b8,b6; =:19	888: d6,d3,g4; c8,b6; =:15	962: d6,c2,h4; d8,b6; =:20
815: c6,a2,h1; b8,b6; =:22	889: d6,f3,h5; c8,b6; =:15	963: d6,c2,e3; d8,b6; =:17
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817: c6,c2,h1; b8,b6; =:22	891: d6,a2,a8; c8,b6; =:17	965: d6,d2,d5; d8,b6; =:49
818: c6,d1,d5; b8,b6; =:18	892: d6,a2,e8; c8,b6; =:17	966: d6,e2,f6; d8,b6; =:18
819: c6,d1,d3; b8,b6; =:19	893: d6,a2,g8; c8,b6; =:15	967: d6,a1,a8; d8,b6; =:48
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821: c6,a6,f6; c8,b6; =:13	895: d6,a2,g4; c8,b6; =:15	969: d6,a1,d5; d8,b6; =:48
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827: c6,d5,e3; c8,b6; =:17	901: d6,d2,a3; c8,b6; =:50	975: e6,b3,d2; c8,b6; =:47
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837: c6,a2,h4; c8,b6; =:21	911: d6,b1,e4; c8,b6; =:51	985: e6,a6,f5; d8,b6; =:18
838: c6,a2,e3; c8,b6; =:18	912: d6,c1,f6; c8,b6; =:17	986: e6,a6,e4; d8,b6; =:20
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841: c6,c2,h4; c8,b6; =:21	915: d6,c1,g3; c8,b6; =:21	989: e6,a6,f3; d8,b6; =:18
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852: d6,a8,e4; c8,b6; =:17	926: d6,a6,d2; d8,b6; =:49	1000: e6,b4,g7; d8,b6; =:15
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861: d6,d7,f5; c8,b6; =:51	935: d6,b4,g6; d8,b6; =:18	1009: e6,b4,d2; d8,b6; =:23
862: d6,d7,e4; c8,b6; =:50	936: d6,b4,f5; d8,b6; =:17	1010: e6,b4,f2; d8,b6; =:23
863: d6,d7,f3; c8,b6; =:51	937: d6,b4,c4; d8,b6; =:23	1011: e6,b4,h2; d8,b6; =:23
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868: d6,e6,h5; c8,b6; =:51	942: d6,c4,f6; d8,b6; =:18	1016: e6,b3,e4; d8,b6; =:46
869: d6,e6,g4; c8,b6; =:51	943: d6,e4,f6; d8,b6; =:16	1017: e6,b3,d3; d8,b6; =:18

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1471: e6, b4, f3; d8, b5; =:17	1545: b4, d6, d7; a6, b5; =: 6	1619: f3, a3, f5; h3, b5; =:20
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1502: g6, a3, h6; h8, b5; =: 3	1576: h4, d2, e4; h2, b5; =:17	1650: f3, b4, f8; g1, b5; =:19
1503: h6, b4, d6; h8, b5; =:11	1577: h4, c1, d5; h2, b5; =:12	1651: f3, b4, h8; g1, b5; =:19
1504: h6, b4, h4; h8, b5; =:21	1578: b3, b4, e3; a1, b5; =:15	1652: f3, d3, f7; g1, b5; =:19
1505: h6, b4, e3; h8, b5; =:17	1579: b3, b3, b7; a1, b5; =: 1	1653: f3, d3, h7; g1, b5; =:19
1506: h6, b4, g3; h8, b5; =:21	1580: b3, a3, d7; a1, b5; =: 1	1654: f3, b2, f8; g1, b5; =:19
1507: a5, c5, e6; a7, b5; =:12	1581: b3, a3, a6; a1, b5; =: 1	1655: f3, d2, h8; g1, b5; =:19
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1509: c5, b4, g8; b7, b5; =:15	1583: c3, b4, c7; a1, b5; =:15	1657: f3, a1, b3; g1, b5; =:12
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1690: e2,a1,e1; g1,b5; =:11	1764: c4,b3,d7; a6,b4; =:19	1838: g3,d5,g6; g1,b4; =:18
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1694: e1,b6,f5; g1,b5; =:23	1768: g4,b3,d5; g2,b4; =:10	1842: g3,b2,f4; g1,b4; =:18
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1702: e1,e3,f5; g1,b5; =:23	1776: h4,b3,d5; h2,b4; =:11	1850: h3,a4,d3; h1,b4; =:17
1703: e1,b2,f5; g1,b5; =:23	1777: b3,b3,a5; a1,b4; =: 0	1851: h3,d3,e6; h1,b4; =:19
1704: e1,d2,f5; g1,b5; =:12	1778: b3,a3,c5; a1,b4; =: 0	1852: h3,d3,g6; h1,b4; =:19
1705: e1,a1,f5; g1,b5; =:13	1779: b3,a3,c1; a1,b4; =: 0	1853: h3,d5,h3; h1,b4; =:19
1706: e1,c1,f5; g1,b5; =:13	1780: e3,b2,c5; e1,b4; =:20	1854: h3,b2,c5; h1,b4; =:21
1707: f1,b6,g5; h1,b5; =:17	1781: e3,b2,d4; e1,b4; =:20	1855: e2,a4,f5; g2,b4; =:21
1708: f1,b6,g1; h1,b5; =:17	1782: e3,b2,f4; e1,b4; =:16	1856: e2,c4,f5; g2,b4; =:21
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1711: f1,a3,g5; h1,b5; =:17	1785: e3,a4,f4; f1,b4; =:17	1859: e2,b3,d4; g1,b4; =:11
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1718: c7,a2,c8; a8,b4; =: 2	1792: f3,c4,g6; h3,b4; =:17	1866: f2,c4,f5; h2,b4; =:20
1719: c7,a2,d7; a8,b4; =:13	1793: f3,c4,f5; h3,b4; =:19	1867: f2,b3,f5; h2,b4; =: 9
1720: c7,a2,a4; a8,b4; =:13	1794: f3,c4,g2; h3,b4; =:17	1868: f2,d1,f5; h2,b4; =:20
1721: c7,b1,d7; a8,b4; =:11	1795: f3,b3,g6; h3,b4; =: 6	1869: e1,a4,f5; g1,b4; =:22
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1727: d7,b3,f2; b8,b4; =: 9	1801: f3,b3,e5; h2,b4; =: 7	1875: f1,a4,g5; h1,b4; =:16
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1734: d7,b2,b3; b6,b4; =: 9	1808: f3,b3,f2; e1,b4; =:10	1882: g4,b2,d5; g2,b3; =:17
1735: e7,b3,f3; c8,b4; =:13	1809: f3,b2,b3; e1,b4; =:10	1883: g4,b2,h3; g2,b3; =:17
1736: e7,b3,c2; c8,b4; =:13	1810: f3,a4,d3; f1,b4; =:15	1884: g4,b2,g5; h2,b3; =:19
1737: e7,b3,e2; c8,b4; =:13	1811: f3,a4,g2; f1,b4; =:10	1885: h4,b2,d3; h2,b3; =:18
1738: e7,b3,d5; c7,b4; =:12	1812: f3,b3,c4; f1,b4; =:11	1886: a3,b4,c3; a1,b3; =: 1
1739: a6,b3,f6; a8,b4; =:17	1813: f3,b3,e4; f1,b4; =:13	1887: a3,b4,d2; a1,b3; =: 1
1740: a6,a2,d7; a8,b4; =: 2	1814: f3,b3,g4; f1,b4; =:11	1888: a3,c3,e3; a1,b3; =: 1
1741: a6,a2,c6; a8,b4; =: 2	1815: f3,b3,h3; f1,b4; =:11	1889: a3,c3,e1; a1,b3; =: 1
1742: b6,b3,f6; b8,b4; =:16	1816: f3,b3,d1; f1,b4; =:11	1890: a3,d2,e3; a1,b3; =: 1
1743: c6,b3,b7; c8,b4; =: 6	1817: f3,b3,e6; f1,b4; =:17	1891: a3,d2,e1; a1,b3; =: 1
1744: c6,b3,f6; c8,b4; =:15	1818: f3,d5,g6; f1,b4; =:17	1892: e3,b2,e6; e1,b3; =:15
1745: d6,a8,b3; c8,b4; =:13	1819: f3,d5,h5; f1,b4; =:17	1893: e3,b2,g6; e1,b3; =:15
1746: d6,a6,b3; c8,b4; =:13	1820: f3,d5,h3; f1,b4; =:17	1894: e3,b2,d5; e1,b3; =:15
1747: d6,b3,d7; c8,b4; =:15	1821: f3,d5,e2; f1,b4; =:17	1895: e3,b2,h5; e1,b3; =:15
1748: d6,b3,h5; c8,b4; =:13	1822: f3,b2,c5; f1,b4; =:19	1896: e3,b2,h3; e1,b3; =:15
1749: d6,b3,e4; c8,b4; =:15	1823: f3,b2,d4; f1,b4; =:19	1897: e3,b2,e2; e1,b3; =:15
1750: d6,b3,g4; c8,b4; =:15	1824: f3,b2,f4; f1,b4; =:17	1898: e3,b2,f4; f1,b3; =:14
1751: d6,b3,c7; d8,b4; =:12	1825: f3,b2,c1; f1,b4; =:19	1899: f3,b2,g6; h3,b3; =:16
1752: d6,b3,g7; d8,b4; =:12	1826: f3,d5,g5; g1,b4; =:18	1900: f3,b2,f5; h3,b3; =:18
1753: d6,b3,f6; d8,b4; =:14	1827: f3,b2,e6; g1,b4; =:18	1901: f3,b2,g2; h3,b3; =:16
1754: d6,b3,f2; b7,b4; =:16	1828: f3,b2,g6; g1,b4; =:18	1902: f3,b2,e6; f1,b3; =:16
1755: d6,b3,d5; b6,b4; =:11	1829: f3,b2,h5; g1,b4; =:18	1903: f3,b2,g6; f1,b3; =:16
1756: d6,b3,d1; b6,b4; =:14	1830: f3,b2,e4; g1,b4; =:22	1904: f3,b2,d5; f1,b3; =:16
1757: a5,b3,f6; b7,b4; =:18	1831: f3,b2,d3; g1,b4; =:18	1905: f3,b2,h5; f1,b3; =:16

1906: f3,b2,c3; f1,b3; =:14	1980: c5,g6,h8; g5,c7; =:54	2054: a3,e2,e7; c2,c6; =:69
1907: f3,b2,h3; f1,b3; =:16	1981: e5,b7,d5; c4,c7; =:48	2055: b3,e7,f6; d4,c6; =:66
1908: f3,b2,e2; f1,b3; =:16	1982: c4,a8,c5; a5,c7; =:15	2056: e3,d2,e7; c3,c6; =:44
1909: f3,b2,g2; f1,b3; =: 9	1983: b3,a3,a8; a1,c7; =:34	2057: a2,a3,b8; c3,c6; =:64
1910: f3,b2,g5; g1,b3; =:17	1984: e3,d2,e8; c2,c7; =:44	2058: a2,a3,g8; c3,c6; =:64
1911: g3,b2,e6; g1,b3; =:17	1985: f3,a8,g6; h3,c7; =:56	2059: a2,b1,b8; c2,c6; =:63
1912: g3,b2,g6; g1,b3; =:17	1986: f3,a8,g2; h3,c7; =:56	2060: a2,b1,g8; c2,c6; =:63
1913: g3,b2,h5; g1,b3; =:17	1987: f3,a8,c2; f1,c7; =:17	2061: a2,b8,c3; c1,c6; =:64
1914: g3,b2,d3; g1,b3; =:15	1988: f3,a8,g2; f1,c7; =:17	2062: a2,c3,g8; c1,c6; =:64
1915: g3,b2,d2; g1,b3; =: 4	1989: g3,e8,h4; g5,c7; =:57	2063: c2,b8,c7; a3,c6; =:61
1916: g3,b2,h2; g1,b3; =: 4	1990: g3,a8,d2; g1,c7; =:38	2064: c2,a7,b8; a3,c6; =:63
1917: g3,b2,d8; h1,b3; =:18	1991: g3,a8,h2; g1,c7; =: 6	2065: c2,a7,c7; a3,c6; =:61
1918: h3,b2,e6; h1,b3; =:18	1992: c2,b5,f6; a2,c7; =:40	2066: c2,e1,e7; a3,c6; =:62
1919: h3,b2,g6; h1,b3; =:18	1993: d2,c3,c8; b3,c7; =:64	2067: d2,a7,g7; e5,c6; =:65
1920: h3,b2,h5; h1,b3; =:18	1994: f2,a8,g5; h2,c7; =: 6	2068: a1,a7,b1; b3,c6; =:62
1921: h3,b2,d3; h1,b3; =:16	1995: f2,a8,g1; h2,c7; =: 6	2069: a1,a3,b1; b3,c6; =:62
1922: h3,b2,d2; h1,b3; =: 5	1996: f1,a8,g5; h1,c7; =:44	2070: a1,b1,e7; b3,c6; =:62
1923: h3,b2,h2; h1,b3; =: 5	1997: f1,a8,g1; h1,c7; =:44	2071: a1,c7,e2; c2,c6; =:66
1924: e2,b2,f5; g2,b3; =:20	1998: b6,b8,c7; d6,c6; =:58	2072: a1,a2,a7; c2,c6; =:64
1925: f2,b2,f5; h2,b3; =:19	1999: b6,a5,e7; b4,c6; =:49	2073: a1,a2,c7; c2,c6; =:64
1926: f2,b2,g5; h2,b3; =:14	2000: b6,d2,e7; b4,c6; =:47	2074: a1,c7,g1; c1,c6; =:67
1927: f2,b2,g1; h2,b3; =:14	2001: b6,d2,f6; b4,c6; =:47	2075: b1,c7,e7; a3,c6; =:70
1928: e1,b2,f5; g1,b3; =:21	2002: b6,d2,f4; b4,c6; =:46	2076: b1,a6,b4; b3,c6; =:65
1929: f1,b2,f5; h1,b3; =:20	2003: b6,a7,b2; d4,c6; =:66	2077: b1,a2,b8; b3,c6; =:63
1930: f1,b2,g5; h1,b3; =:15	2004: d6,c7,e7; b7,c6; =:49	2078: b1,a2,f8; b3,c6; =:63
1931: f1,b2,g1; h1,b3; =:15	2005: d6,c7,d8; b6,c6; =:32	2079: b1,b8,c1; c3,c6; =:64
1932: a8,b8,c6; b6,c7; =:43	2006: d6,a7,e5; d4,c6; =:49	2080: b1,c1,f8; c3,c6; =:64
1933: f8,a8,f5; h8,c7; =: 8	2007: d6,a7,b2; d4,c6; =:47	2081: c1,c7,f5; b3,c6; =:65
1934: b7,d2,e8; b5,c7; =:52	2008: d6,a3,c5; c3,c6; =:32	2082: c1,e7,f5; b3,c6; =:65
1935: b7,c8,f5; c5,c7; =:50	2009: f6,c8,f5; d5,c6; =:51	2083: c1,a3,b1; b3,c6; =:62
1936: b7,d5,e3; c5,c7; =:51	2010: g6,c3,f7; e6,c6; =:56	2084: c1,c2,c7; b3,c6; =:65
1937: d7,c8,e8; b7,c7; =:47	2011: a5,a7,e7; c7,c6; =:67	2085: c1,c2,e7; b3,c6; =:65
1938: d7,b7,d5; b5,c7; =:51	2012: a5,c7,f7; c5,c6; =:68	2086: c1,c7,e2; a1,c6; =:61
1939: d7,d2,e8; b5,c7; =:52	2013: a5,b4,c3; c4,c6; =:67	2087: c1,a4,c3; a1,c6; =:61
1940: d7,c8,e8; c5,c7; =:50	2014: c5,a7,b3; d8,c6; =:67	2088: c1,e2,e7; a1,c6; =:62
1941: d7,c8,f5; c5,c7; =:50	2015: c5,a6,c7; b7,c6; =:33	2089: c1,e2,f6; a1,c6; =:62
1942: d7,e8,f5; c5,c7; =:55	2016: c5,a6,b4; b7,c6; =:33	2090: c1,e2,f4; a1,c6; =:62
1943: d7,e8,f1; c5,c7; =:55	2017: c5,a7,e7; c7,c6; =:47	2091: c1,e2,f2; a1,c6; =:62
1944: d7,a3,b5; c5,c7; =:51	2018: c5,a5,e7; c7,c6; =:38	2092: d1,a7,e2; d3,c6; =:63
1945: d7,e8,f7; f5,c7; =:51	2019: c5,a7,g8; d7,c6; =:49	2093: d1,c7,e2; d3,c6; =:63
1946: f7,a8,h4; h8,c7; =: 8	2020: c5,c7,e6; d7,c6; =:43	2094: d1,e2,g7; d3,c6; =:64
1947: f7,a8,e3; h8,c7; =:31	2021: c5,a5,b7; a6,c6; =:15	2095: e1,b7,e2; d3,c6; =:64
1948: f7,a8,g3; h8,c7; =:32	2022: c5,d7,e5; e6,c6; =:39	2096: e1,a6,e2; d3,c6; =:64
1949: f7,a8,f2; h8,c7; =:32	2023: c5,a7,f5; e6,c6; =:53	2097: e1,e2,e6; d3,c6; =:63
1950: f7,a8,g8; h7,c7; =: 5	2024: c5,a8,h8; f6,c6; =:48	2098: e1,a7,f2; e3,c6; =:63
1951: f7,a8,f5; h7,c7; =: 7	2025: c5,h4,h8; f6,c6; =:53	2099: e1,c7,f2; e3,c6; =:62
1952: f7,a8,g6; h7,c7; =: 5	2026: c5,h7,h8; f5,c6; =:51	2100: e1,c7,h1; f3,c6; =:67
1953: a6,b7,g1; c6,c7; =:68	2027: c5,a5,b3; a4,c6; =:47	2101: f1,a7,g2; f3,c6; =:63
1954: a6,b7,e2; d5,c7; =:67	2028: c5,e5,g4; f4,c6; =:50	2102: f1,c7,g2; f3,c6; =:63
1955: c6,a7,c8; b8,c7; =:19	2029: c5,h1,h2; f4,c6; =:51	2103: a8,a2,c3; a6,c5; =:68
1956: c6,a7,b5; b8,c7; =:19	2030: c5,a4,b6; b3,c6; =:47	2104: a8,b7,c3; b6,c5; =:62
1957: c6,b8,d7; a7,c7; =:12	2031: c5,a1,e1; c3,c6; =:50	2105: b8,a2,c3; b6,c5; =:67
1958: c6,a6,b8; a7,c7; =:12	2032: c5,d5,f4; e3,c6; =:71	2106: c8,c3,g7; d6,c5; =:68
1959: c6,d8,e6; e7,c7; =:36	2033: c5,g1,h1; e3,c6; =:50	2107: d8,c2,g6; b8,c5; =:62
1960: c6,e8,f6; e7,c7; =:54	2034: c5,f5,h1; f3,c6; =:50	2108: d8,c2,g2; b8,c5; =:49
1961: c6,e7,f5; e6,c7; =:53	2035: c5,h1,h5; f3,c6; =:52	2109: c7,b7,e6; a7,c5; =:10
1962: c6,h4,h8; f6,c7; =:45	2036: c5,a2,b4; b2,c6; =:50	2110: c7,b3,e6; a7,c5; =:10
1963: c6,h7,h8; f5,c7; =:44	2037: a4,a7,f7; d4,c6; =:75	2111: d7,c2,g4; b7,c5; =:48
1964: c6,g6,h8; f5,c7; =:55	2038: c4,b6,c3; c2,c6; =:63	2112: d7,c2,d5; b7,c5; =:48
1965: c6,a5,b7; b4,c7; =:42	2039: c4,c3,e5; c2,c6; =:65	2113: d7,c2,g2; b7,c5; =:48
1966: c6,b4,d3; c4,c7; =:49	2040: c4,c3,f4; c2,c6; =:65	2114: d7,c2,f1; b7,c5; =:48
1967: c6,b5,d4; c4,c7; =:48	2041: c4,c3,f2; c2,c6; =:65	2115: b6,e6,g4; b8,c5; =:15
1968: c6,c5,e5; d4,c7; =:72	2042: c4,b7,c7; c4,c6; =:42	2116: b6,e6,f3; b8,c5; =:28
1969: c6,e5,g4; f4,c7; =:51	2043: c4,b7,f4; c4,c6; =:43	2117: b6,e6,g2; b8,c5; =:15
1970: c6,h1,h2; f4,c7; =:46	2044: c4,b4,f3; e2,c6; =:46	2118: b6,e6,f1; b8,c5; =:15
1971: c6,a1,e1; c3,c7; =:47	2045: f4,a1,b8; h4,c6; =:55	2119: b6,b3,e6; b8,c5; =:30
1972: c6,g1,h1; e3,c7; =:45	2046: a3,a7,f8; e5,c6; =:69	2120: b6,d3,g6; b8,c5; =:28
1973: f6,e8,g7; f8,c7; =: 7	2047: a3,b8,e6; c4,c6; =:70	2121: b6,c7,f3; d6,c5; =:58
1974: g6,a8,d7; g8,c7; =: 5	2048: a3,b8,d6; c3,c6; =:61	2122: b6,c6,c7; d6,c5; =:57
1975: g6,a8,h7; g8,c7; =: 5	2049: a3,a7,b4; c3,c6; =:65	2123: c6,b3,e1; b8,c5; =:60
1976: g6,a8,e6; g8,c7; =: 7	2050: a3,d6,g8; c3,c6; =:61	2124: c6,d5,e1; b8,c5; =:60
1977: g6,a8,d8; h8,c7; =: 8	2051: a3,a5,b7; c3,c6; =:62	2125: c6,a1,b3; b8,c5; =:60
1978: g6,a8,c5; h8,c7; =: 6	2052: a3,a5,c7; c3,c6; =:62	2126: c6,a1,d3; b8,c5; =:60
1979: g6,a8,f4; h8,c7; =: 8	2053: a3,b4,c7; c3,c6; =:63	2127: c6,a6,e6; c8,c5; =:14

2128: c6,e6,g4; c8,c5; =:14	2202: c4,g2,h2; e4,c5; =:61	2276: e2,c6,d7; g1,c5; =:37
2129: c6,e3,f3; c8,c5; =:27	2203: c4,g1,g2; e4,c5; =:58	2277: e2,c6,h7; g1,c5; =:56
2130: c6,e6,g2; c8,c5; =:14	2204: c4,a4,c3; c2,c5; =:62	2278: b1,a6,d5; b3,c5; =:62
2131: c6,e6,f1; c8,c5; =:14	2205: c4,c3,d3; c2,c5; =:64	2279: b1,d5,a6; b3,c5; =:62
2132: c6,b3,e6; c8,c5; =:29	2206: c4,c3,d1; c2,c5; =:64	2280: b1,a2,d7; b3,c5; =:62
2133: c6,d5,e6; c8,c5; =:27	2207: c4,b3,c2; e2,c5; =:64	2281: b1,a2,a6; b3,c5; =:62
2134: c6,c2,e6; c8,c5; =:14	2208: c4,a3,a4; c1,c5; =:61	2282: b1,a2,a6; b3,c5; =:62
2135: c6,e1,f8; c8,c5; =:70	2209: c4,a4,b1; d1,c5; =:63	2283: c1,d5,f5; b3,c5; =:62
2136: c6,e1,g7; c8,c5; =:70	2210: c4,a2,b3; d1,c5; =:63	2284: c1,a2,c3; b3,c5; =:60
2137: c6,d7,d8; a7,c5; =:12	2211: c4,d5,e4; d1,c5; =:65	2285: c1,c2,d5; b3,c5; =:62
2138: c6,a8,c2; a6,c5; =:35	2212: c4,a1,b3; d1,c5; =:67	2286: c1,a6,b5; a1,c5; =:12
2139: c6,b7,f5; a6,c5; =:15	2213: c4,b3,e3; e1,c5; =:65	2287: c1,a6,b1; a1,c5; =:12
2140: c6,b7,g4; a6,c5; =:15	2214: c4,c1,e4; e1,c5; =:66	2288: c1,d5,e2; a1,c5; =:60
2141: c6,b7,d3; a6,c5; =:11	2215: e4,b8,d5; d6,c5; =:53	2289: c1,a6,d5; a1,c5; =:60
2142: c6,b7,f3; a6,c5; =:15	2216: e4,b7,d5; c4,c5; =:41	2290: c1,a6,d3; a1,c5; =:61
2143: c6,b7,c2; a6,c5; =:12	2217: e4,c1,d5; c4,c5; =:65	2291: c1,d5,e2; a1,c5; =:61
2144: c6,b7,g2; a6,c5; =:15	2218: f4,b3,g7; h4,c5; =:38	2292: d1,b7,e2; b3,c5; =:63
2145: c6,b7,f1; a6,c5; =:15	2219: f4,b6,t6; h4,c5; =:24	2293: d1,a6,e2; d3,c5; =:63
2146: c6,b3,b7; a6,c5; =:11	2220: f4,b3,g3; h4,c5; =:20	2294: d1,e2,e6; d3,c5; =:62
2147: c6,b3,d3; a6,c5; =:14	2221: f4,d5,g7; h4,c5; =:20	2295: g1,a2,h2; g3,c5; =:63
2148: c6,b3,c2; a6,c5; =:14	2222: f4,g3,f6; h4,c5; =:22	2296: g1,d1,h2; g3,c5; =:63
2149: c6,c2,c8; a6,c5; =:35	2223: f4,d5,g3; h4,c5; =:20	2297: h1,e4,h2; h3,c5; =:57
2150: c6,c2,d7; a6,c5; =:35	2224: f4,a1,e8; h4,c5; =:54	2298: h1,c3,g2; f2,c5; =:57
2151: c6,c3,d2; a5,c5; =:45	2225: f4,a1,g8; h4,c5; =:54	2299: a8,b7,c3; a6,c4; =:60
2152: d6,c2,h7; b8,c5; =:47	2226: f4,a1,d7; h4,c5; =:54	2300: b8,b7,c3; b6,c4; =:59
2153: d6,c2,h5; b8,c5; =:47	2227: f4,a1,h7; h4,c5; =:54	2301: c8,b7,e3; c6,c4; =:60
2154: d6,c4,g4; b8,c5; =:40	2228: f4,a1,g4; h4,c5; =:54	2302: c8,c3,d7; c6,c4; =:68
2155: d6,c2,d3; b8,c5; =:47	2229: f4,a1,f1; h4,c5; =:54	2303: d8,b4,c2; b8,c4; =:31
2156: d6,c2,h3; b8,c5; =:47	2230: f4,a1,h1; h4,c5; =:54	2304: d8,c2,c7; b8,c4; =:31
2157: d6,c2,g2; b8,c5; =:40	2231: f4,a6,f1; h3,c5; =:38	2305: d8,c2,e7; b8,c4; =:31
2158: d6,c2,f1; b8,c5; =:40	2232: f4,g4,h5; h3,c5; =:20	2306: d8,c2,f4; b8,c4; =:31
2159: d6,c6,c7; b6,c5; =:31	2233: f4,b3,h5; h3,c5; =:59	2307: d8,c2,e3; b8,c4; =:31
2160: a5,b3,e6; a7,c5; =:32	2234: f4,b3,f1; h3,c5; =:37	2308: d8,c3,d7; d6,c4; =:67
2161: a5,d3,e6; a7,c5; =:30	2235: f4,d3,h5; h3,c5; =:21	2309: b7,c3,c6; c5,c4; =:55
2162: a5,e1,f8; a7,c5; =:72	2236: f4,d5,h1; h3,c5; =:21	2310: d7,b4,d4; b8,c4; =:29
2163: a5,a4,b1; c4,c5; =:66	2237: f4,f3,h5; h3,c5; =:38	2311: d7,b4,e3; b8,c4; =:23
2164: b5,b7,e2; d5,c5; =:65	2238: f4,f1,h5; h3,c5; =:38	2312: d7,b4,e1; b8,c4; =:31
2165: b5,a1,c4; c3,c5; =:46	2239: f4,f1,g4; h3,c5; =:20	2313: d7,a3,e7; b8,c4; =:31
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2168: d5,a2,c4; c2,c5; =:48	2242: a3,b1,c3; c2,c5; =:62	2316: d7,b4,c8; b7,c4; =:19
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2173: a4,c8,e6; a6,c5; =:67	2247: f3,b3,g2; h3,c5; =: 9	2321: d7,c2,f6; b7,c4; =:30
2174: a4,c8,d5; a6,c5; =:42	2248: f3,a6,f2; f1,c5; =:40	2322: d7,c2,f4; b7,c4; =:30
2175: a4,c6,e6; a6,c5; =:63	2249: g3,a6,f2; g1,c5; =:41	2323: d7,c2,e3; b7,c4; =:30
2176: a4,b3,c8; a6,c5; =:44	2250: f3,c3,g2; f2,c5; =:59	2324: d7,c3,c6; c5,c4; =:25
2177: a4,d3,e6; a6,c5; =:68	2251: a2,a6,b1; c2,c5; =:62	2325: f7,a3,f8; h8,c4; =: 2
2178: c4,a6,e6; c8,c5; =:59	2252: a2,b1,c6; c2,c5; =:62	2326: f7,b2,f8; h8,c4; =: 2
2179: c4,a7,b5; b7,c5; =:49	2253: c2,a8,c7; a3,c5; =:61	2327: a6,a3,e6; a8,c4; =:15
2180: c4,a6,g7; d7,c5; =:66	2254: c2,c6,c7; a3,c5; =:61	2328: a6,e3,e6; a8,c4; =:15
2181: c4,a5,c6; b6,c5; =:60	2255: c2,a6,b5; a2,c5; =:11	2329: a6,a1,e6; a8,c4; =:15
2182: c4,a5,b3; b6,c5; =:60	2256: c2,a6,b1; a2,c5; =:11	2330: a6,e1,e6; a8,c4; =:15
2183: c4,a8,e8; c6,c5; =:59	2257: c2,b5,c6; a2,c5; =: 9	2331: b6,e6,f3; a8,c4; =:15
2184: c4,a6,e6; c6,c5; =:65	2258: c2,b5,d5; a2,c5; =: 9	2332: b6,b4,e6; b8,c4; =:14
2185: c4,a4,a6; c6,c5; =:57	2259: c2,b1,c6; a2,c5; =: 9	2333: b6,d6,e6; b8,c4; =:14
2186: c4,a8,b8; d6,c5; =:65	2260: c2,b1,d5; a2,c5; =: 9	2334: b6,a3,e6; b8,c4; =:14
2187: c4,a6,b6; d6,c5; =:65	2261: c2,b7,c1; a1,c5; =: 2	2335: b6,e3,e6; b8,c4; =:14
2188: c4,a6,f8; d6,c5; =:66	2262: c2,a6,c1; a1,c5; =: 2	2336: b6,a1,e6; b8,c4; =:14
2189: c4,c6,e5; d6,c5; =:63	2263: c2,d5,e1; a1,c5; =:59	2337: b6,e1,e6; b8,c4; =:14
2190: c4,f7,h6; e6,c5; =:66	2264: c2,d5,e1; a1,c5; =:62	2338: c6,b7,d4; c8,c4; =: 8
2191: c4,f4,h8; f6,c5; =:65	2265: c2,a2,c1; a1,c5; =: 2	2339: c6,b7,e3; c8,c4; =: 8
2192: c4,a8,b6; a5,c5; =:56	2266: c2,c1,d7; a1,c5; =: 2	2340: c6,b7,e1; c8,c4; =: 8
2193: c4,b6,c8; a5,c5; =:41	2267: c2,c1,c6; a1,c5; =: 2	2341: c6,b4,b7; c8,c4; =: 8
2194: c4,b6,d7; a5,c5; =:39	2268: c2,c1,e6; a1,c5; =: 2	2342: c6,b4,f7; c8,c4; =: 8
2195: c4,b6,d5; a5,c5; =:39	2269: c2,c1,f5; a1,c5; =: 2	2343: c6,b4,e6; c8,c4; =:13
2196: c4,a4,b6; a5,c5; =:39	2270: c2,c1,f3; a1,c5; =: 2	2344: c6,d4,f7; c8,c4; =: 8
2197: c4,c1,f2; a5,c5; =:52	2271: c2,c1,f1; a1,c5; =: 2	2345: c6,d4,e6; c8,c4; =:13
2198: c4,d6,e4; e5,c5; =:58	2272: e2,b3,f6; g2,c5; =:28	2346: c6,a3,b7; c8,c4; =: 8
2199: c4,a1,c2; a4,c5; =:51	2273: e2,a1,d7; g2,c5; =:56	2347: c6,a3,f7; c8,c4; =: 8
2200: c4,c1,d1; a4,c5; =:39	2274: e2,a1,h7; g2,c5; =:58	2348: c6,a3,e6; c8,c4; =:13
2201: c4,g2,h4; e4,c5; =:61	2275: e2,a6,d7; g1,c5; =:39	2349: c6,e3,f7; c8,c4; =: 8

2350: c6,e3,e6; c8,c4; =:13	2424: f4,d4,h1; h3,c4; =:18	2498: a1,b1,c3; b3,c4; =:60
2351: c6,a1,b7; c8,c4; =: 8	2425: f4,a3,e6; h3,c4; =:18	2499: a1,a2,c3; c2,c4; =:60
2352: c6,a1,f7; c8,c4; =: 8	2426: f4,a3,h5; h3,c4; =:18	2500: b1,a2,c3; b3,c4; =:59
2353: c6,a1,e6; c8,c4; =:13	2427: f4,a3,f1; h3,c4; =:18	2501: c1,a2,c3; a3,c4; =:60
2354: c6,e1,f7; c8,c4; =: 8	2428: f4,a3,h1; h3,c4; =:18	2502: c1,b1,c3; b3,c4; =:58
2355: c6,e1,e6; c8,c4; =:13	2429: f4,e3,f1; h3,c4; =:16	2503: e1,b4,f6; g1,c4; =:24
2356: c6,b7,d4; a6,c4; =:14	2430: f4,e3,h1; h3,c4; =:18	2504: e1,a3,f6; g1,c4; =:24
2357: c6,b7,e3; a6,c4; =:14	2431: f4,a1,e6; h3,c4; =:18	2505: e1,e3,f6; g1,c4; =:21
2358: c6,b7,e1; a6,c4; =:14	2432: f4,a1,h5; h3,c4; =:18	2506: e1,c2,e8; g1,c4; =:57
2359: c6,b6,c2; a6,c4; =:34	2433: f4,a1,f1; h3,c4; =:18	2507: e1,c2,g8; g1,c4; =:57
2360: c6,a3,b7; a6,c4; =:14	2434: f4,a1,h1; h3,c4; =:18	2508: e1,c2,d7; g1,c4; =:57
2361: c6,a1,b7; a6,c4; =:14	2435: f4,e1,f1; h3,c4; =:16	2509: e1,c2,h7; g1,c4; =:57
2362: d6,b6,c2; b8,c4; =:32	2436: f4,e1,h1; h3,c4; =:16	2510: e1,a1,f6; g1,c4; =:24
2363: d6,b4,c2; b8,c4; =:33	2437: g4,b6,e3; h2,c4; =:11	2511: f1,a3,f6; h1,c4; =:22
2364: d6,c2,c7; b8,c4; =:46	2438: g4,b6,e1; h2,c4; =:21	2512: f1,c2,e8; h1,c4; =:56
2365: d6,b2,f6; b8,c4; =:33	2439: a3,c7,e3; a5,c4; =:60	2513: f1,c2,g8; h1,c4; =:56
2366: d6,c2,f4; b8,c4; =:33	2440: a3,c7,d2; a5,c4; =:62	2514: f1,c2,d7; h1,c4; =:56
2367: d6,c2,e3; b8,c4; =:33	2441: a3,b2,c7; a5,c4; =:62	2515: f1,e1,f6; h1,c4; =:22
2368: g6,b2,e7; h8,c4; =: 2	2442: a3,b4,d6; c3,c4; =:59	2516: g1,c3,f1; f3,c4; =:55
2369: g6,b2,h6; h8,c4; =: 2	2443: g1,c3,g3; c3,c4; =:59	2517: g1,c3,h2; g3,c4; =:55
2370: g6,c1,e7; h8,c4; =: 2	2444: e3,a2,c3; c2,c4; =:57	2518: h1,c3,g2; f1,c4; =:57
2371: g6,c1,h6; h8,c4; =: 2	2445: a3,a5,d2; a1,c4; =: 1	2519: c8,c2,c4; a8,c3; =:17
2372: a5,b4,e6; a7,c4; =:16	2446: a3,c5,d2; a1,c4; =: 1	2520: d8,c2,d5; b8,c3; =:22
2373: a5,e3,e6; a7,c4; =:16	2447: a3,c1,d2; a1,c4; =: 1	2521: g8,c2,c4; b8,c3; =:18
2374: a5,a1,e6; a7,c4; =:16	2448: a3,b1,c3; c1,c4; =:60	2522: c7,a3,c2; a8,c3; =:17
2375: a5,e1,e6; a7,c4; =:16	2449: e3,b6,c2; g2,c4; =:53	2523: c7,c2,c4; a7,c3; =:16
2376: b5,c2,e6; a7,c4; =:16	2450: e3,b4,c2; g2,c4; =:53	2524: d7,b4,c2; b8,c3; =:22
2377: b5,b4,e6; b7,c4; =:15	2451: f3,a2,g3; h4,c4; =:54	2525: d7,c2,e7; b8,c3; =:19
2378: b5,d4,e6; b7,c4; =:15	2452: f3,b4,f6; h3,c4; =:20	2526: d7,b4,c2; b7,c3; =:19
2379: b5,a3,e6; b7,c4; =:15	2453: f3,b4,g2; h3,c4; =: 8	2527: d7,c2,c8; b7,c3; =:18
2380: b5,e3,e6; b7,c4; =:15	2454: f3,d4,f6; h3,c4; =:20	2528: d7,c2,d5; b7,c3; =:21
2381: b5,a1,e6; b7,c4; =:15	2455: f3,d4,g2; h3,c4; =: 8	2529: d7,c2,c4; b7,c3; =:17
2382: b5,e1,e6; b7,c4; =:15	2456: f3,a3,f6; h3,c4; =:20	2530: a6,c2,e6; a8,c3; =:14
2383: c5,b6,c2; a5,c4; =:33	2457: f3,a3,g2; h3,c4; =: 8	2531: b6,c2,e6; b8,c3; =:13
2384: g5,c5,f5; f3,c4; =:21	2458: f3,e3,f6; h3,c4; =:18	2532: c6,b7,c2; c8,c3; =: 7
2385: g5,b4,d6; g3,c4; =:33	2459: f3,e3,g2; h3,c4; =: 8	2533: c6,c2,f7; c8,c5; =: 7
2386: g5,d4,e3; g3,c4; =:33	2460: f3,c2,e8; h3,c4; =:55	2534: c6,c2,e6; c8,c3; =:12
2387: g5,d4,e1; g3,c4; =:33	2461: f3,c2,g8; h3,c4; =:55	2535: c6,c2,e7; a7,c3; =:18
2388: g5,a3,d4; g3,c4; =:33	2462: f3,c2,d7; h3,c4; =:55	2536: c6,b7,c2; a6,c3; =:13
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2392: g5,a1,d4; g3,c4; =:33	2466: f3,c2,f1; h3,c4; =:55	2540: c6,c2,d7; a6,c3; =:17
2393: g5,a7,c2; h3,c4; =:32	2467: f3,c2,h1; h3,c4; =:55	2541: c6,c2,d5; a6,c3; =:19
2394: g5,c6,e3; h3,c4; =:34	2468: f3,a1,f6; h3,c4; =:20	2542: c6,c2,c4; a6,c3; =:15
2395: g5,c6,e1; h3,c4; =:34	2469: f3,a1,g2; h3,c4; =: 8	2543: c6,b6,c2; a5,c3; =:16
2396: g5,a3,c2; h3,c4; =:32	2470: f3,e1,f6; h3,c4; =:18	2544: d6,c2,d5; b8,c3; =:24
2397: g5,c2,e1; h3,c4; =:34	2471: f3,e1,g2; h3,c4; =: 8	2545: a5,c2,e6; a7,c3; =:15
2398: f4,b4,g7; h4,c4; =:17	2472: f3,a1,c2; f1,c4; =:13	2546: b5,c2,e6; b7,c3; =:14
2399: f4,b4,f6; h4,c4; =:19	2473: g3,b5,h2; h1,c4; =: 4	2547: g5,c2,d4; g3,c3; =:12
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2401: f4,d4,g7; h4,c4; =:17	2475: a2,b1,c3; c2,c4; =:59	2549: g5,b5,c2; h3,c5; =:13
2402: f4,d4,f6; h4,c4; =:19	2476: c2,a5,c1; a1,c4; =: 1	2550: g5,c2,c6; h3,c3; =:13
2403: f4,d4,g3; h4,c4; =:17	2477: c2,b4,c1; a1,c4; =: 1	2551: c4,b3,b5; a4,c3; =: 9
2404: f4,a3,g7; h4,c4; =:17	2478: c2,c1,c5; a1,c4; =: 1	2552: c4,b1,b3; a4,c3; =: 9
2405: f4,a3,f6; h4,c4; =:19	2479: c2,c1,d4; a1,c4; =: 1	2553: f4,c2,g7; h4,c3; =:14
2406: f4,a3,g3; h4,c4; =:17	2480: c2,c1,d2; a1,c4; =: 1	2554: f4,c2,f6; h4,c3; =:16
2407: f4,e3,g7; h4,c4; =:15	2481: c2,e5,g3; e1,c4; =:59	2555: f4,c2,g3; h4,c3; =:14
2408: f4,e3,f6; h4,c4; =:17	2482: c2,c1,g3; e1,c4; =:57	2556: f4,c2,d5; h3,c3; =:17
2409: f4,e3,g3; h4,c4; =:15	2483: e2,b4,f6; g2,c4; =:23	2557: f4,c2,f1; h3,c3; =:15
2410: f4,a1,g7; h4,c4; =:17	2484: e2,d4,f6; g2,c4; =:23	2558: f4,c2,h1; h3,c3; =:15
2411: f4,a1,f6; h4,c4; =:19	2485: e2,a3,f6; g2,c4; =:23	2559: g4,c2,f4; f2,c3; =: 6
2412: f4,a1,g3; h4,c4; =:17	2486: e2,c2,e8; g2,c4; =:56	2560: g4,c2,g6; g2,c3; =: 7
2413: f4,e1,g7; h4,c4; =:15	2487: e2,c2,g8; g2,c4; =:56	2561: g4,c2,d5; g2,c3; =: 7
2414: f4,e1,f6; h4,c4; =:17	2488: e2,c2,d7; g2,c4; =:56	2562: g4,c2,d1; g2,c5; =:13
2415: f4,a1,g3; h4,c4; =:15	2489: e2,c2,h7; g2,c4; =:56	2563: g4,b6,c2; h2,c3; =:10
2416: f4,b6,c2; h3,c4; =:52	2490: e2,c2,g4; g2,c4; =:56	2564: e3,c2,f6; g3,c3; =:18
2417: f4,b4,e6; h3,c4; =:18	2491: e2,a1,f6; g2,c4; =:23	2565: e3,c2,d5; g2,c3; =:19
2418: f4,b4,h5; h3,c4; =:18	2492: f2,a3,f6; h2,c4; =:21	2566: f3,c2,f6; h3,c3; =:17
2419: f4,b4,f1; h3,c4; =:18	2493: f2,c2,e8; h2,c4; =:55	2567: f3,c2,g2; h3,c3; =: 7
2420: f4,b4,h1; h3,c4; =:18	2494: f2,c2,g8; h2,c4; =:55	2568: g3,b3,h2; h1,c3; =: 3
2421: f4,d4,e6; h3,c4; =:18	2495: f2,c2,d7; h2,c4; =:55	2569: g3,a2,h2; h1,c3; =: 3
2422: f4,d4,h5; h3,c4; =:18	2496: f2,a1,f6; h2,c4; =:21	2570: g3,c1,d5; h1,c3; =: 3
2423: f4,d4,f1; h3,c4; =:18	2497: h2,c3,g2; f2,c4; =:56	2571: g3,c1,c4; h1,c3; =: 3

2572: g3,c1,g2; h1,c3; =; 3	2646: e6,e7,g6; g5,d6; =;83	2720: f3,c6,c8; d3,d6; =;74
2573: e2,c2,f6; g2,c3; =;19	2647: e6,b7,d7; d4,d6; =;81	2721: f3,c6,e8; d3,d6; =;74
2574: f2,c2,f6; h2,c3; =;18	2648: e6,g7,f7; d4,d6; =;81	2722: f3,c6,f1; d3,d6; =;75
2575: e1,c2,f6; g1,c3; =;20	2649: e6,f7,g4; d4,d6; =;82	2723: f3,f5,f7; d3,d6; =;73
2576: f1,c2,f6; h1,c3; =;19	2650: e6,a4,b7; d4,d6; =;82	2724: b2,a8,b3; d3,d6; =;76
2577: b4,b3,c1; b1,c2; =; 8	2651: e6,b2,c4; d4,d6; =;81	2725: b2,b3,c8; d3,d6; =;76
2578: g3,c1,e3; h1,c2; =; 2	2652: e6,h7,g6; d4,d6; =;83	2726: b2,b3,e8; d3,d6; =;76
2579: g3,c1,d2; h1,c2; =; 2	2653: e6,b7,f5; d4,d6; =;48	2727: b2,b2,e8; d3,d6; =;76
2580: g3,c1,h2; h1,c2; =; 2	2654: f6,e6,f7; e4,d6; =;83	2728: b2,a8,c1; d2,d6; =;75
2581: a8,b8,c1; b6,d7; =;84	2655: g6,a8,b1; h8,d6; =;32	2729: b2,c1,c8; d2,d6; =;75
2582: a8,b8,e1; b6,d7; =;87	2656: g6,a8,f1; h8,d6; =;34	2730: b2,c1,e8; d2,d6; =;75
2583: a8,b2,b8; b6,d7; =;88	2657: g6,b7,h5; g4,d6; =;83	2731: e2,a1,d3; c3,d6; =;72
2584: a8,a7,g3; d6,d7; =;90	2658: h6,d7,h5; f5,d6; =;85	2732: f2,c8,f3; d3,d6; =;77
2585: c7,a6,b8; d5,d7; =;84	2659: b5,c7,e6; e5,d6; =;82	2733: f2,e8,f3; d3,d6; =;77
2586: e7,a8,d6; c6,d7; =;32	2660: b5,d6,f7; d4,d6; =;82	2734: f2,f3,g8; d3,d6; =;77
2587: e7,a8,b8; d5,d7; =;85	2661: b5,a4,d7; b3,d6; =;81	2735: f2,c8,e1; d2,d6; =;76
2588: d6,b7,d8; c8,d7; =;28	2662: b5,a4,f7; b3,d6; =;80	2736: f2,e1,e8; d2,d6; =;76
2589: d6,b6,c8; b7,d7; =;28	2663: b5,c4,e1; c3,d6; =;78	2737: f2,e1,g8; d2,d6; =;76
2590: d6,e8,f6; f7,d7; =;34	2664: d5,d7,f8; e8,d6; =;84	2738: b1,a2,f7; b3,d6; =;73
2591: d6,f8,g6; f7,d7; =;39	2665: d5,a7,c8; b7,d6; =;43	2739: b1,c1,f7; c3,d6; =;74
2592: d6,e7,g8; g7,d7; =;36	2666: d5,a6,b8; b7,d6; =;47	2740: b1,d7,f2; d2,d6; =;78
2593: d6,b8,d8; b6,d7; =;44	2667: d5,b6,d7; c7,d6; =;40	2741: c1,b2,g8; c3,d6; =;74
2594: d6,a5,b7; b6,d7; =;43	2668: d5,d7,f6; f7,d6; =;41	2742: c1,a4,g8; d3,d6; =;75
2595: d6,d8,f8; f6,d7; =;43	2669: d5,b5,c7; b6,d6; =;38	2743: c1,d1,g8; d3,d6; =;75
2596: d6,f7,g5; f6,d7; =;66	2670: d5,e7,f5; f6,d6; =;38	2744: e1,a8,g4; d3,d6; =;75
2597: d6,b8,f7; b5,d7; =;48	2671: d5,i7,g5; f6,d6; =;57	2745: e1,a8,h3; d3,d6; =;75
2598: d6,a6,b4; b5,d7; =;84	2672: d5,a6,b6; b5,d6; =;83	2746: e1,a8,d1; d3,d6; =;75
2599: d6,a2,b8; b5,d7; =;49	2673: d5,f4,g6; f5,d6; =;84	2747: e1,a8,h1; d3,d6; =;75
2600: d6,f4,g6; f5,d7; =;85	2674: d5,f5,h6; g5,d6; =;81	2748: e1,a4,h7; d3,d6; =;75
2601: d6,f4,h5; g5,d7; =;84	2675: d5,i5,h4; g4,d6; =;49	2749: e1,h3,h7; d3,d6; =;75
2602: d6,b5,c3; c4,d7; =;81	2676: d5,a4,b2; b3,d6; =;81	2750: e1,d1,h7; d3,d6; =;75
2603: d6,c4,e3; d4,d7; =;47	2677: d5,b3,d2; c3,d6; =;80	2751: e1,h1,h7; d3,d6; =;75
2604: d6,c3,e4; d4,d7; =;47	2678: d5,a1,e1; c3,d6; =;47	2752: e1,a8,f2; e3,d6; =;74
2605: d6,e3,f5; e4,d7; =;81	2679: d5,c3,e2; d3,d6; =;78	2753: e1,f2,h7; e3,d6; =;74
2606: d6,t5,h4; g4,d7; =;50	2680: d5,c2,e3; d3,d6; =;79	2754: f1,b7,e1; e3,d6; =;75
2607: d6,a1,e1; c3,d7; =;44	2681: d5,d2,f3; c3,d6; =;80	2755: f1,b7,g2; f3,d6; =;73
2608: d6,g1,h1; e3,d7; =;43	2682: d5,g1,h1; e3,d6; =;48	2756: g1,b7,h2; g3,d6; =;74
2609: d6,f2,g4; f3,d7; =;84	2683: d5,f2,g4; f3,d6; =;82	2757: d7,a3,d2; b8,d5; =;46
2610: f6,a6,b8; d6,d7; =;86	2684: d5,h1,h5; f3,d6; =;49	2758: d7,d2,h8; b8,d5; =;49
2611: c5,d8,f8; g5,d7; =;49	2685: f5,a7,f7; c5,d6; =;84	2759: d7,d2,h6; b8,d5; =;49
2612: d5,b8,d8; b5,d7; =;48	2686: f5,c6,e7; c5,d6; =;82	2760: d7,d2,e3; b8,d5; =;46
2613: d5,d8,f8; f5,d7; =;48	2687: f5,b7,g6; d4,d6; =;82	2761: d7,d2,g3; b8,d5; =;82
2614: e5,a8,d6; c6,d7; =;26	2688: f5,c1,e4; e3,d6; =;79	2762: f7,e3,f1; h8,d5; =; 5
2615: e5,d8,g8; a5,d7; =;49	2689: f5,b7,g4; f3,d6; =;81	2763: f7,d2,f1; h8,d5; =;47
2616: e1,h1,h5; f3,d7; =;85	2690: f5,d7,g4; f3,d6; =;81	2764: f7,e1,g8; h8,d5; =; 5
2617: d4,a2,b8; b5,d7; =;70	2691: h5,b7,g6; f5,d6; =;82	2765: f7,b1,e3; h8,d5; =; 5
2618: b3,d8,c4; b5,d7; =;74	2692: a4,b5,b8; c5,d6; =;79	2766: f7,b1,g3; h8,d5; =; 6
2619: b3,a6,b8; d4,d7; =;73	2693: a4,e6,e8; c4,d6; =;76	2767: f7,b1,h2; h8,d5; =; 5
2620: f3,e4,f8; f5,d7; =;74	2694: a4,b5,d7; c4,d6; =;78	2768: f7,f1,g3; h8,d5; =; 6
2621: f3,d4,h7; f5,d7; =;73	2695: a4,b5,g6; c4,d6; =;78	2769: f7,f1,h2; h8,d5; =; 5
2622: f3,f8,g4; g5,d7; =;74	2696: b4,a5,b7; b6,d6; =;66	2770: b6,d2,h7; b8,d5; =;66
2623: g8,f7,h6; e7,d6; =;96	2697: b4,b3,f7; c3,d6; =;78	2771: b6,a5,d2; c8,d5; =;65
2624: a7,b7,b8; c7,d6; =;79	2698: d4,a4,b8; c6,d6; =;73	2772: b6,d2,h6; c8,d5; =;67
2625: a7,a6,f7; a5,d6; =;85	2699: e4,a1,d3; c3,d6; =;72	2773: c6,c7,f1; c8,d5; =;37
2626: b7,a7,f7; b5,d6; =;84	2700: f4,c8,f7; c5,d6; =;81	2774: c6,a5,b1; c8,d5; =;66
2627: d7,b8,c6; d5,d6; =;84	2701: f4,b7,f3; d3,d6; =;79	2775: c6,a5,f1; c8,d5; =;66
2628: d7,a6,c6; c4,d6; =;83	2702: g4,a6,f5; e4,d6; =;78	2776: c6,b1,f8; c8,d5; =;37
2629: f7,b1,f1; h8,d6; =;35	2703: g4,c6,c8; e4,d6; =;76	2777: c6,b1,h8; c8,d5; =;66
2630: f7,b7,g6; f5,d6; =;84	2704: b3,c8,e6; c3,d6; =;73	2778: c6,b1,c7; c8,d5; =;37
2631: g7,b7,g6; g5,d6; =;85	2705: b3,b7,d7; d3,d6; =;78	2779: c6,b1,g7; c8,d5; =;37
2632: c6,f7,g5; e7,d6; =;80	2706: b3,e6,e8; d3,d6; =;73	2780: c6,b1,h6; c8,d5; =;66
2633: c6,a6,c7; a5,d6; =;82	2707: b3,b5,b7; d3,d6; =;73	2781: c6,b1,g5; c8,d5; =;37
2634: c6,b7,h5; e5,d6; =;81	2708: b3,b5,d7; d3,d6; =;73	2782: c6,f1,f8; c8,d5; =;37
2635: c6,a4,b2; b4,d6; =;82	2709: b3,a3,d8; d3,d6; =;75	2783: c6,f1,h8; c8,d5; =;66
2636: c6,a6,f7; c4,d6; =;83	2710: b3,a3,f8; d3,d6; =;75	2784: c6,f1,g7; c8,d5; =;37
2637: c6,b5,f7; c4,d6; =;48	2711: b3,a3,g7; d3,d6; =;77	2785: c6,f1,h6; c8,d5; =;66
2638: c6,b7,d7; d4,d6; =;80	2712: b3,b1,e6; d3,d6; =;75	2786: c6,f1,g5; c8,d5; =;37
2639: c6,b7,g4; d4,d6; =;80	2713: c3,f7,g6; e4,d6; =;80	2787: c6,d2,h8; a7,d5; =;80
2640: c6,d7,f7; d4,d6; =;80	2714: e3,a6,c8; c4,d6; =;81	2788: c6,d2,h6; a7,d5; =;80
2641: c6,f7,g4; d4,d6; =;82	2715: f3,b8,g3; d3,d6; =;75	2789: c6,d2,g3; a7,d5; =;30
2642: c6,a4,b7; d4,d6; =;81	2716: f3,d8,g3; d3,d6; =;75	2790: g6,a8,d2; h8,d5; =;44
2643: c6,e4,f2; d4,d6; =;81	2717: f3,a7,g3; d3,d6; =;77	2791: g6,b8,f1; h8,d5; =; 5
2644: c6,b7,h6; e4,d6; =;81	2718: f3,d7,f7; d3,d6; =;78	2792: g6,c7,f1; h8,d5; =; 6
2645: e6,b8,c6; c5,d6; =;82	2719: f3,d7,f5; d3,d6; =;73	2793: g6,b6,f1; h8,d5; =; 5

2794: g6,a1,h7; h8,d5; =: 5
 2795: g6,b1,b8; h8,d5; =: 5
 2796: g6,b1,c7; h8,d5; =: 7
 2797: g6,b1,b6; h8,d5; =: 5
 2798: a5,b1,f8; a7,d5; =: 46
 2799: a5,f1,f8; a7,d5; =: 46
 2800: c5,b4,f6; c3,d5; =: 79
 2801: c5,e1,f6; c3,d5; =: 77
 2802: c5,e1,g5; c3,d5; =: 77
 2803: c5,e1,g3; c3,d5; =: 78
 2804: e5,b6,f4; e3,d5; =: 79
 2805: e5,b6,c1; e3,d5; =: 77
 2806: e5,a5,c1; e3,d5; =: 78
 2807: e5,a3,c1; e3,d5; =: 78
 2808: f5,a7,e5; c5,d5; =: 80
 2809: d4,a8,b6; d8,d5; =: 73
 2810: d4,a4,b6; c7,d5; =: 77
 2811: d4,a5,b3; b6,d5; =: 76
 2812: d4,a8,c5; c6,d5; =: 72
 2813: d4,b5,d6; c6,d5; =: 72
 2814: d4,g8,h8; e6,d5; =: 77
 2815: d4,d6,f5; e6,d5; =: 73
 2816: d4,d8,h8; f6,d5; =: 74
 2817: d4,d6,h8; f6,d5; =: 75
 2818: d4,f4,h8; f6,d5; =: 74
 2819: d4,h4,h8; f6,d5; =: 77
 2820: d4,b4,c6; b5,d5; =: 68
 2821: d4,h7,h8; f5,d5; =: 79
 2822: d4,e6,f4; f5,d5; =: 69
 2823: d4,f6,h5; g5,d5; =: 79
 2824: d4,b4,c2; b3,d5; =: 76
 2825: d4,e2,f4; f3,d5; =: 76
 2826: d4,h1,h5; f3,d5; =: 84
 2827: d4,f4,h3; g3,d5; =: 80
 2828: d4,a3,b5; b2,d5; =: 81
 2829: d4,b3,d2; c2,d5; =: 78
 2830: d4,d2,f3; e2,d5; =: 78
 2831: f4,c8,e5; c5,d5; =: 77
 2832: f4,e8,f1; h4,d5; =: 81
 2833: f4,b6,f6; h4,d5; =: 79
 2834: f4,a5,f6; h4,d5; =: 26
 2835: f4,a3,f6; h4,d5; =: 75
 2836: f4,c3,f6; h4,d5; =: 80
 2837: f4,a1,f6; h4,d5; =: 26
 2838: f4,b1,e8; h4,d5; =: 81
 2839: f4,b1,g8; h4,d5; =: 81
 2840: f4,b1,h7; h4,d5; =: 80
 2841: f4,f1,g8; h4,d5; =: 81
 2842: f4,f1,h7; h4,d5; =: 81
 2843: f4,f5,h4; h3,d5; =: 80
 2844: f4,f3,h4; h3,d5; =: 80
 2845: f4,b1,d2; h3,d5; =: 79
 2846: b3,d6,e6; d3,d5; =: 72
 2847: b3,a3,e6; d3,d5; =: 74
 2848: b3,a7,g3; a1,d5; =: 7
 2849: b3,a7,g1; a1,d5; =: 7
 2850: b3,c7,g3; a1,d5; =: 7
 2851: b3,c7,g1; a1,d5; =: 7
 2852: b3,e7,g3; a1,d5; =: 7
 2853: b3,e7,g1; a1,d5; =: 7
 2854: b3,b6,g3; a1,d5; =: 9
 2855: b3,b6,g1; a1,d5; =: 9
 2856: b3,d6,g3; a1,d5; =: 7
 2857: b3,d6,g1; a1,d5; =: 7
 2858: b3,f6,g3; a1,d5; =: 9
 2859: b3,f6,g1; a1,d5; =: 9
 2860: b3,g3,g5; a1,d5; =: 9
 2861: b3,g1,g5; a1,d5; =: 9
 2862: b3,g1,g3; a1,d5; =: 9
 2863: e5,a1,d5; c3,d5; =: 71
 2864: f3,c6,d6; d3,d5; =: 73
 2865: f3,c6,g3; d3,d5; =: 74
 2866: f3,a5,h8; h2,d5; =: 24
 2867: f3,c3,h8; h2,d5; =: 24
 2868: f3,a1,h8; h2,d5; =: 24
 2869: b2,b6,c1; d2,d5; =: 74
 2870: b2,c1,d6; d2,d5; =: 74
 2871: f2,d6,e1; d2,d5; =: 75
 2872: f2,e1,f6; d2,d5; =: 75
 2873: c1,b2,e7; c3,d5; =: 73
 2874: c1,b2,b6; c3,d5; =: 73
 2875: c1,b2,f6; c3,d5; =: 73
 2876: e1,c7,f2; e3,d5; =: 73
 2877: e1,b6,f2; e3,d5; =: 73
 2878: e1,f2,f6; e3,d5; =: 73
 2879: c8,c4,f1; a8,d4; =: 17
 2880: c8,c2,d2; a8,d4; =: 40
 2881: c8,d2,d5; a8,d4; =: 40
 2882: c8,b1,c4; a8,d4; =: 17
 2883: d8,c4,f3; b8,d4; =: 19
 2884: d8,c4,f1; b8,d4; =: 19
 2885: d8,b1,c4; b8,d4; =: 19
 2886: c7,a4,e2; a8,d4; =: 6
 2887: c7,a4,d1; a8,d4; =: 6
 2888: c7,d1,d5; a8,d4; =: 4
 2889: c7,b8,f1; a7,d4; =: 5
 2890: c7,c4,f3; a7,d4; =: 16
 2891: c7,c4,f1; a7,d4; =: 16
 2892: c7,c2,d2; a7,d4; =: 39
 2893: c7,t2,d5; a7,d4; =: 39
 2894: c7,b1,c4; a7,d4; =: 16
 2895: d7,c4,d2; b8,d4; =: 19
 2896: d7,d2,f7; b8,d4; =: 40
 2897: d7,c4,f3; b7,d4; =: 18
 2898: d7,c4,f1; b7,d4; =: 18
 2899: d7,b1,c4; b7,d4; =: 18
 2900: f7,b3,g8; h8,d4; =: 4
 2901: f7,b3,f5; h8,d4; =: 5
 2902: f7,b3,g4; h8,d4; =: 4
 2903: f7,d2,g3; h8,d4; =: 5
 2904: f7,d2,h2; h8,d4; =: 4
 2905: f7,b1,g8; h8,d4; =: 4
 2906: f7,b1,f5; h8,d4; =: 5
 2907: f7,b1,g9; h8,d4; =: 4
 2908: f7,f1,g8; h8,d4; =: 4
 2909: f7,f1,f5; h8,d4; =: 5
 2910: f7,f1,g4; h8,d4; =: 4
 2911: a6,e6,f1; a8,d4; =: 21
 2912: a6,d2,h8; a8,d4; =: 66
 2913: a6,d2,g7; a8,d4; =: 66
 2914: a6,d2,h6; a8,d4; =: 66
 2915: a6,d2,g5; a8,d4; =: 66
 2916: a6,b1,e6; a8,d4; =: 21
 2917: b6,a6,d1; a8,d4; =: 2
 2918: b6,d2,h7; a8,d4; =: 66
 2919: b6,e2,e8; a8,d4; =: 6
 2920: b6,a7,e2; a8,d4; =: 3
 2921: b6,a7,b1; a8,d4; =: 15
 2922: b6,a7,f1; a8,d4; =: 15
 2923: b6,c7,d2; b8,d4; =: 65
 2924: b6,e7,f1; b8,d4; =: 15
 2925: b6,d6,e2; a8,d4; =: 5
 2926: b6,e6,f3; b8,d4; =: 20
 2927: b6,e6,f1; b8,d4; =: 20
 2928: b6,a5,d2; b8,d4; =: 65
 2929: b6,b3,e6; b8,d4; =: 20
 2930: b6,d2,d8; b8,d4; =: 65
 2931: b6,d2,f8; b8,d4; =: 65
 2932: b6,d2,h8; b8,d4; =: 65
 2933: b6,d2,g7; b8,d4; =: 65
 2934: b6,d2,h6; b8,d4; =: 65
 2935: b6,d2,g5; b8,d4; =: 65
 2936: b6,e2,e7; b8,d4; =: 3
 2937: b6,b1,e7; b8,d4; =: 15
 2938: b6,b1,e6; b8,d4; =: 20
 2939: b6,b7,d2; c8,d4; =: 64
 2940: b6,d2,f7; c8,d4; =: 64
 2941: c6,d2,h8; a8,d4; =: 66
 2942: c6,d2,h6; a8,d4; =: 66
 2943: c6,b7,f3; c8,d4; =: 17
 2944: c6,b7,f1; c8,d4; =: 17
 2945: c6,e6,f3; c8,d4; =: 19
 2946: c6,e6,f1; c8,d4; =: 19
 2947: c6,b3,b7; c8,d4; =: 17
 2948: c6,b3,f7; c8,d4; =: 17
 2949: c6,b3,e6; c8,d4; =: 19
 2950: c6,f3,f7; c8,d4; =: 17
 2951: c6,b1,b7; c8,d4; =: 17
 2952: c6,b1,f7; c8,d4; =: 17
 2953: c6,b1,e6; c8,d4; =: 19
 2954: c6,f1,f7; c8,d4; =: 17
 2955: c6,c4,d2; a7,d4; =: 16
 2956: c6,d2,f7; a7,d4; =: 18
 2957: c6,c4,f3; a6,d4; =: 15
 2958: c6,c4,f1; a6,d4; =: 15
 2959: c6,b1,c4; a6,d4; =: 15
 2960: g6,b8,d2; h8,d4; =: 4
 2961: g6,c7,d2; h8,d4; =: 5
 2962: g6,d7,f1; h8,d4; =: 4
 2963: g6,b6,d2; h8,d4; =: 4
 2964: g6,e6,f1; h8,d4; =: 5
 2965: g6,b3,d7; h8,d4; =: 4
 2966: g6,b3,h7; h8,d4; =: 4
 2967: g6,b3,e6; h8,d4; =: 5
 2968: g6,b1,d7; h8,d4; =: 4
 2969: g6,b1,h7; h8,d4; =: 4
 2970: g6,b1,e6; h8,d4; =: 5
 2971: g6,f1,h7; h8,d4; =: 4
 2972: a5,e6,f3; a7,d4; =: 22
 2973: a5,e6,f1; a7,d4; =: 22
 2974: a5,c4,e6; a7,d4; =: 22
 2975: a5,e4,e6; a7,d4; =: 22
 2976: a5,b3,e6; a7,d4; =: 22
 2977: a5,d2,d8; a7,d4; =: 67
 2978: a5,b1,e6; a7,d4; =: 22
 2979: c4,d1,d5; a3,d4; =: 73
 2980: e4,a1,d3; c3,d4; =: 76
 2981: f4,c4,f6; h4,d4; =: 16
 2982: f4,c4,g3; h4,d4; =: 16
 2983: f4,e4,g7; h4,d4; =: 14
 2984: f4,e4,f6; h4,d4; =: 16
 2985: f4,e4,g3; h4,d4; =: 14
 2986: f4,b3,f6; h4,d4; =: 16
 2987: f4,b3,g3; h4,d4; =: 16
 2988: f4,b1,f6; h4,d4; =: 16
 2989: f4,b1,g3; h4,d4; =: 16
 2990: f4,f1,f6; h4,d4; =: 16
 2991: f4,f1,g3; h4,d4; =: 16
 2992: f4,f3,f5; h3,d4; =: 79
 2993: f4,d2,g3; h3,d4; =: 15
 2994: b3,c4,e6; d3,d4; =: 71
 2995: b3,c4,h3; d3,d4; =: 71
 2996: b3,c7,e2; a1,d4; =: 10
 2997: b3,b6,e2; a1,d4; =: 8
 2998: b3,d6,e2; a1,d4; =: 8
 2999: b3,a5,e2; a1,d4; =: 8
 3000: b3,b5,g3; a1,d4; =: 6
 3001: b3,b5,g1; a1,d4; =: 6
 3002: b3,d5,g1; a1,d4; =: 6
 3003: b3,a4,g3; a1,d4; =: 8
 3004: b3,a4,g1; a1,d4; =: 8
 3005: b3,e4,g3; a1,d4; =: 8
 3006: b3,e4,g1; a1,d4; =: 8
 3007: b3,a3,a6; a1,d4; =: 2
 3008: b3,a3,c6; a1,d4; =: 2
 3009: b3,a3,e6; a1,d4; =: 2
 3010: b3,a3,f5; a1,d4; =: 2
 3011: b3,a3,f3; a1,d4; =: 2
 3012: b3,a3,e2; a1,d4; =: 2
 3013: b3,a3,g2; a1,d4; =: 2
 3014: b3,a3,b1; a1,d4; =: 2
 3015: b3,a3,f1; a1,d4; =: 2

3016: b3,e2,e7; a1,d4; =:10	3090: f4,d2,f6; h4,d3; =:11
3017: b3,e2,f6; a1,d4; =: 8	3091: f4,d2,g3; h4,d3; =:12
3018: b3,e2,g5; a1,d4; =: 8	3092: h4,d2,g4; g2,d3; =: 4
3019: b3,e2,g3; a1,d4; =: 8	3093: h4,d2,h6; h2,d3; =: 5
3020: b3,d1,g3; a1,d4; =: 8	3094: h4,d2,e5; h2,d3; =: 5
3021: b3,d1,g1; a1,d4; =: 8	3095: b3,a3,b4; a1,d3; =: 1
3022: b3,b5,e2; b1,d4; =: 3	3096: b3,a3,d4; a1,d3; =: 1
3023: b3,d5,e2; b1,d4; =: 5	3097: b3,a3,e1; a1,d3; =: 1
3024: b3,a4,e2; b1,d4; =: 7	3098: b3,a2,e5; b1,d3; =: 6
3025: b3,c4,e2; b1,d4; =: 3	3099: b3,a2,e1; b1,d3; =: 2
3026: b3,c2,e2; b1,d4; =: 3	3100: b3,a2,g1; b1,d3; =: 6
3027: b3,e2,e4; b1,d4; =: 7	3101: c3,b2,b4; a3,d3; =:10
3028: b3,d1,e2; b1,d4; =: 7	3102: e3,d2,f6; g3,d3; =:14
3029: f3,c6,e4; d3,d4; =:72	3103: e3,d2,f5; g2,d3; =: 9
3030: f3,c4,f6; h3,d4; =:17	3104: f3,d2,f6; h3,d3; =:12
3031: f3,b3,f6; h3,d4; =:17	3105: f3,d2,g6; h3,d3; =: 5
3032: f3,b1,f6; h3,d4; =:17	3106: f3,d2,g2; h3,d3; =: 5
3033: f3,f1,f6; h3,d4; =:17	3107: f3,d2,h8; h2,d3; =: 6
3034: f3,c4,h8; h2,d4; =: 9	3108: g3,c3,e5; g1,d3; =: 4
3035: f3,e4,h8; h2,d4; =: 9	3109: g3,c3,h2; g1,d3; =: 2
3036: f3,b3,h8; h2,d4; =: 9	3110: g3,c1,e3; g1,d3; =: 4
3037: f3,b1,h8; h2,d4; =: 9	3111: g3,c1,h2; g1,d3; =: 2
3038: g3,b5,h2; g1,d4; =: 3	3112: h3,f3,g1; h1,d3; =: 1
3039: g3,a4,h2; g1,d4; =: 3	3113: f2,d2,f6; h2,d3; =:13
3040: g3,a2,h2; g1,d4; =: 3	3114: e1,d2,f4; g1,d3; =: 5
3041: d2,f5,h3; f1,d4; =:70	3115: f1,d2,f6; h1,d3; =:14
3042: d2,d1,h3; f1,d4; =:70	3116: a6,a5,d1; a4,d2; =:14
3043: e2,a1,d3; c3,d4; =:69	3117: a6,d1,e3; a4,d2; =:14
3044: e2,d2,f5; g2,d4; =:15	3118: b6,d1,g4; a4,d2; =:14
3045: e2,d2,e4; g2,d4; =:67	3119: b6,a5,d1; b4,d2; =:13
3046: f2,b5,g5; h2,d4; =: 3	3120: b6,b2,d1; b4,d2; =:11
3047: f2,c4,f6; h2,d4; =:18	3121: b6,d1,e3; b4,d2; =:13
3048: f2,b3,f6; h2,d4; =:18	3122: c4,b7,d1; a4,d2; =:11
3049: f2,b1,f6; h2,d4; =:18	3123: c4,c6,d1; a4,d2; =:13
3050: f2,d1,g1; h2,d4; =: 3	3124: c4,b3,d1; a4,d2; =:11
3051: f1,c4,f6; h1,d4; =:19	3125: c4,d1,e7; a3,d2; =:14
3052: f1,b3,f6; h1,d4; =:19	3126: c4,c3,d1; c1,d2; =:15
3053: f1,b1,f6; h1,d4; =:19	3127: d3,c6,d1; b3,d2; =:15
3054: c8,b8,d2; a8,d3; =: 5	3128: c2,c6,d1; a2,d2; =:15
3055: c8,b4,d2; a8,d3; =: 5	3129: c2,b5,d1; a2,d2; =:11
3056: c8,c4,d2; a8,d3; =:16	3130: c2,b1,d1; a2,d2; =:11
3057: d8,c4,d2; b8,d3; =:18	
3058: c7,a3,d2; a8,d3; =:16	
3059: c7,b8,d2; a7,d3; =: 4	
3060: c7,b4,d2; a7,d3; =: 4	
3061: c7,c4,d2; a7,d3; =:15	
3062: d7,c4,d2; b7,d3; =:17	
3063: f7,d2,g8; h8,d3; =: 3	
3064: f7,d2,f5; h8,d3; =: 3	
3065: f7,d2,g4; h8,d3; =: 3	
3066: a6,a7,d2; a8,d3; =:15	
3067: a6,d2,e7; a8,d3; =:15	
3068: a6,d2,e6; a8,d3; =:20	
3069: b6,a7,d2; b8,d3; =:14	
3070: b6,d2,e7; b8,d3; =:14	
3071: b6,d2,e6; b8,d3; =:19	
3072: c6,b7,d2; c8,d3; =:16	
3073: c6,d2,f7; c8,d3; =:16	
3074: c6,d2,e6; c8,d3; =:18	
3075: c6,b7,d2; a8,d3; =: 9	
3076: c6,c4,d2; a8,d3; =:14	
3077: c6,b3,d2; a8,d3; =: 9	
3078: g6,d2,d7; h8,d3; =: 3	
3079: g6,d2,h7; h8,d3; =: 3	
3080: g6,d2,e6; h8,d3; =: 3	
3081: a5,d2,e6; a7,d3; =:21	
3082: b5,d2,e6; b7,d3; =:20	
3083: g5,d2,g4; g3,d3; =:11	
3084: g5,d1,d2; g3,d3; =:11	
3085: g5,d2,e3; h3,d3; =:12	
3086: h5,d2,g4; h3,d3; =:12	
3087: h5,d1,d2; h3,d3; =:12	
3088: c4,c3,d1; a3,d3; =:13	
3089: f4,d2,g7; h4,d3; =:12	

Mr. Beasley wrote us the following:

"As the new study columnist of *diagrammes*, I am delighted to see our award reprinted in EG, but EG 116.9929 (Bacqué after Lavaud) EG writes: "How far Marc Lavaud was consulted is unclear." In fact I wrote to Marc Lavaud before the award was published, and he told me that he had no objection to Guy Bacqué's version.

EG 117.9930 (Lewandowski) The demolition was reported by Guy Bacqué, not by the judge. The judge, and doubtless the composer, initially relied on the statement in Kasparian's *Domination in 2545 endgame studies* (English edition, page 385, two rooks and minor piece against queen): "As a rule, a draw is considered the outcome." Bacqué challenged this, at least in respect of the present position, and we eventually decided that he was right.

EG 117 Kutná Hora 60 (9948 - 9955) EG is wrong to talk about a provisional award; "jejíž definitivní výsledek přinášíme" means "whose definitive results we present". The judge reported that 32 studies entered showed a lot of new and interesting ideas but that unfortunately they were

hard hit by unsoundness, although enough remained to honour the anniversary in good style. He commented on the honoured studies as follows:

9948 (1Pr. Matouš) "A very demanding study in which precise play by both sides eventually leads to a win for White. The succession of tries must please the solver, as must the various ideas behind the White promotions. The best study of the tourney."

9949 (2Pr. Husák and Vlasák) "Only the first move spoils this very attractive joint composition. White must avoid a positional draw, and only precise play leads to success. Very economically constructed."

9950 (3Pr. Matouš) "The play resolves into a quite incredible and most unexpected cavalry ride, which eventually leads to success. An original and most interesting study, realized in masterly style."

9951 (1HM. Slepjan) "The heart of this study lies in two echoed stalemates which are invisible in the original position. The order of moves in the two variations is forced. Extremely original."

9952 (2HM. Hlinka) "After a forcing first move, there is a long and interesting battle between the White queen and the Black army. The queen exerts her power by precise moves in an open position. Very demanding to solve."

9953 (1Com. Topko) "The realization of familiar ideas in miniature is always pleasing."

9954 (2Com. Krejčí) "Both sides display interesting although forcing play, ending in a Black promotion either to immediate stalemate or to a positional draw. The try is also interesting."

9955 (3Com. Kos) "A familiar theme ending in two mates, though Black must help a little."

Large private collections of studies

Kasparyan's collection holds some 30,000. Harold van der Heijden's currently has over 40,000 (on computer disk), and it is still growing. According to *Šachova skladba* No.46 the card collection of 86-year old František Macek of Prague totals 45,000. If we knew the precise number of studies in the all-genre collection of the late J.P. Toft of Denmark, we would be able to draw up a preliminary world ranking list! A curiosity of Macek's collection is the number of Rinck's studies in it, reported as 1564, which exceeds by over 400 the number in the Frenchman's own final volume assembling his life's work in the field.

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