

For each N, enumerate cells 1,2,3,...,N^2 (left-to-right and up-to-down).
A chess king moves one step in any direction.

César Eliud Lozada - April 29, 2016

=====
N=1 (1x1 chessboard) Total: 1 path

1: {1}

=====
N=2 (2x2 chessboard) Total: 2 paths

1: {1,2,3,4}
2: {1,3,2,4}

=====
N=3 (3x3 chessboard) Total: 30 paths

1: {1,2,3,5,4,7,8,6,9}
2: {1,2,3,5,7,4,8,6,9}
3: {1,2,3,6,5,4,7,8,9}
4: {1,2,3,6,5,7,4,8,9}
5: {1,2,3,6,8,4,7,5,9}
6: {1,2,3,6,8,7,4,5,9}
7: {1,2,4,7,5,3,6,8,9}
8: {1,2,4,7,8,5,3,6,9}
9: {1,2,4,7,8,6,3,5,9}
10: {1,2,4,8,7,5,3,6,9}
11: {1,2,6,3,5,4,7,8,9}
12: {1,2,6,3,5,7,4,8,9}
13: {1,4,2,3,5,7,8,6,9}
14: {1,4,2,3,6,5,7,8,9}
15: {1,4,2,3,6,8,7,5,9}
16: {1,4,2,6,3,5,7,8,9}
17: {1,4,7,5,2,3,6,8,9}
18: {1,4,7,5,3,2,6,8,9}
19: {1,4,7,8,5,2,3,6,9}
20: {1,4,7,8,5,3,2,6,9}
21: {1,4,7,8,6,2,3,5,9}
22: {1,4,7,8,6,3,2,5,9}
23: {1,4,8,7,5,2,3,6,9}
24: {1,4,8,7,5,3,2,6,9}
25: {1,5,3,2,4,7,8,6,9}
26: {1,5,3,6,2,4,7,8,9}
27: {1,5,6,3,2,4,7,8,9}
28: {1,5,7,4,2,3,6,8,9}
29: {1,5,7,8,4,2,3,6,9}
30: {1,5,8,7,4,2,3,6,9}

=====
N=4 (4x4 chessboard) Total: 4942 paths

1: {1,2,3,4,7,6,5,9,10,13,14,11,8,12,15,16}
2: {1,2,3,4,7,6,5,9,10,13,14,15,11,8,12,16}
3: {1,2,3,4,7,6,5,9,10,13,14,15,12,8,11,16}
4: {1,2,3,4,7,6,5,9,13,10,14,11,8,12,15,16}
5: {1,2,3,4,7,6,5,9,13,10,14,15,11,8,12,16}
6: {1,2,3,4,7,6,5,9,13,10,14,15,12,8,11,16}
7: {1,2,3,4,7,6,5,9,13,10,15,14,11,8,12,16}

8: {1,2,3,4,7,6,5,9,13,14,10,11,8,12,15,16}
9: {1,2,3,4,7,6,5,9,13,14,10,15,11,8,12,16}
10: {1,2,3,4,7,6,5,9,13,14,10,15,12,8,11,16}
11: {1,2,3,4,7,6,5,9,13,14,15,10,11,8,12,16}
12: {1,2,3,4,7,6,5,9,14,13,10,11,8,12,15,16}
13: {1,2,3,4,7,6,5,9,14,13,10,15,11,8,12,16}
14: {1,2,3,4,7,6,5,9,14,13,10,15,12,8,11,16}
15: {1,2,3,4,7,6,5,10,9,13,14,11,8,12,15,16}
16: {1,2,3,4,7,6,5,10,9,13,14,15,11,8,12,16}
17: {1,2,3,4,7,6,5,10,9,13,14,15,12,8,11,16}
18: {1,2,3,4,7,6,5,10,13,9,14,11,8,12,15,16}
19: {1,2,3,4,7,6,5,10,13,9,14,15,11,8,12,16}
20: {1,2,3,4,7,6,5,10,13,9,14,15,12,8,11,16}
21: {1,2,3,4,7,6,9,5,10,13,14,11,8,12,15,16}
22: {1,2,3,4,7,6,9,5,10,13,14,15,11,8,12,16}
23: {1,2,3,4,7,6,9,5,10,13,14,15,12,8,11,16}
24: {1,2,3,4,7,6,10,5,9,13,14,11,8,12,15,16}
25: {1,2,3,4,7,6,10,5,9,13,14,15,11,8,12,16}
26: {1,2,3,4,7,6,10,5,9,13,14,15,12,8,11,16}
27: {1,2,3,4,7,8,11,6,5,9,10,13,14,15,12,16}
28: {1,2,3,4,7,8,11,6,5,9,13,10,14,15,12,16}
29: {1,2,3,4,7,8,11,6,5,9,13,14,10,15,12,16}
30: {1,2,3,4,7,8,11,6,5,9,14,13,10,15,12,16}
31: {1,2,3,4,7,8,11,6,5,10,9,13,14,15,12,16}
32: {1,2,3,4,7,8,11,6,5,10,13,9,14,15,12,16}
33: {1,2,3,4,7,8,11,6,9,5,10,13,14,15,12,16}
34: {1,2,3,4,7,8,11,6,10,5,9,13,14,15,12,16}
35: {1,2,3,4,7,8,11,10,5,6,9,13,14,15,12,16}
36: {1,2,3,4,7,8,11,10,6,5,9,13,14,15,12,16}
37: {1,2,3,4,7,8,11,14,13,9,5,6,10,15,12,16}
38: {1,2,3,4,7,8,11,14,13,9,6,5,10,15,12,16}
39: {1,2,3,4,7,8,12,11,6,5,9,10,13,14,15,16}
40: {1,2,3,4,7,8,12,11,6,5,9,13,10,14,15,16}
41: {1,2,3,4,7,8,12,11,6,5,9,13,14,10,15,16}
42: {1,2,3,4,7,8,12,11,6,5,9,14,13,10,15,16}
43: {1,2,3,4,7,8,12,11,6,5,10,9,13,14,15,16}
44: {1,2,3,4,7,8,12,11,6,5,10,13,9,14,15,16}
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47: {1,2,3,4,7,8,12,11,10,5,6,9,13,14,15,16}
48: {1,2,3,4,7,8,12,11,10,6,5,9,13,14,15,16}
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50: {1,2,3,4,7,8,12,11,14,13,9,6,5,10,15,16}
51: {1,2,3,4,7,8,12,15,10,5,6,9,13,14,11,16}
52: {1,2,3,4,7,8,12,15,10,6,5,9,13,14,11,16}
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56: {1,2,3,4,7,8,12,15,14,10,13,9,5,6,11,16}
57: {1,2,3,4,7,8,12,15,14,13,9,5,6,10,11,16}
58: {1,2,3,4,7,8,12,15,14,13,9,5,10,6,11,16}
59: {1,2,3,4,7,8,12,15,14,13,9,6,5,10,11,16}
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61: {1,2,3,4,7,8,12,15,14,13,10,5,9,6,11,16}
62: {1,2,3,4,7,8,12,15,14,13,10,9,5,6,11,16}
63: {1,2,3,4,7,10,5,6,9,13,14,11,8,12,15,16}
64: {1,2,3,4,7,10,5,6,9,13,14,15,11,8,12,16}
65: {1,2,3,4,7,10,5,6,9,13,14,15,12,8,11,16}
66: {1,2,3,4,7,10,6,5,9,13,14,11,8,12,15,16}
67: {1,2,3,4,7,10,6,5,9,13,14,15,11,8,12,16}
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69: {1,2,3,4,7,10,13,14,9,5,6,11,8,12,15,16}
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96: {1,2,3,4,8,7,6,5,9,13,14,10,15,11,12,16}
97: {1,2,3,4,8,7,6,5,9,13,14,10,15,12,11,16}
98: {1,2,3,4,8,7,6,5,9,13,14,11,10,15,12,16}
99: {1,2,3,4,8,7,6,5,9,13,14,15,10,11,12,16}
100: {1,2,3,4,8,7,6,5,9,14,13,10,11,12,15,16}
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102: {1,2,3,4,8,7,6,5,9,14,13,10,15,11,12,16}
103: {1,2,3,4,8,7,6,5,9,14,13,10,15,12,11,16}
104: {1,2,3,4,8,7,6,5,10,9,13,14,11,12,15,16}
105: {1,2,3,4,8,7,6,5,10,9,13,14,11,15,12,16}
106: {1,2,3,4,8,7,6,5,10,9,13,14,15,11,12,16}
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108: {1,2,3,4,8,7,6,5,10,13,9,14,11,12,15,16}
109: {1,2,3,4,8,7,6,5,10,13,9,14,11,15,12,16}
110: {1,2,3,4,8,7,6,5,10,13,9,14,15,11,12,16}
111: {1,2,3,4,8,7,6,5,10,13,9,14,15,12,11,16}
112: {1,2,3,4,8,7,6,9,5,10,13,14,11,12,15,16}
113: {1,2,3,4,8,7,6,9,5,10,13,14,11,15,12,16}
114: {1,2,3,4,8,7,6,9,5,10,13,14,15,11,12,16}
115: {1,2,3,4,8,7,6,9,5,10,13,14,15,12,11,16}
116: {1,2,3,4,8,7,6,10,5,9,13,14,11,12,15,16}
117: {1,2,3,4,8,7,6,10,5,9,13,14,11,15,12,16}
118: {1,2,3,4,8,7,6,10,5,9,13,14,15,11,12,16}
119: {1,2,3,4,8,7,6,10,5,9,13,14,15,12,11,16}
120: {1,2,3,4,8,7,6,11,10,5,9,13,14,15,12,16}
121: {1,2,3,4,8,7,6,11,14,13,9,5,10,15,12,16}
122: {1,2,3,4,8,7,10,5,6,9,13,14,11,12,15,16}
123: {1,2,3,4,8,7,10,5,6,9,13,14,11,15,12,16}
124: {1,2,3,4,8,7,10,5,6,9,13,14,15,11,12,16}
125: {1,2,3,4,8,7,10,5,6,9,13,14,15,12,11,16}
126: {1,2,3,4,8,7,10,6,5,9,13,14,11,12,15,16}
127: {1,2,3,4,8,7,10,6,5,9,13,14,11,15,12,16}
128: {1,2,3,4,8,7,10,6,5,9,13,14,15,11,12,16}
129: {1,2,3,4,8,7,10,6,5,9,13,14,15,12,11,16}
130: {1,2,3,4,8,7,10,11,6,5,9,13,14,15,12,16}
131: {1,2,3,4,8,7,10,13,9,5,6,11,14,15,12,16}
132: {1,2,3,4,8,7,10,13,14,9,5,6,11,12,15,16}
133: {1,2,3,4,8,7,10,13,14,9,5,6,11,15,12,16}
134: {1,2,3,4,8,7,10,14,13,9,5,6,11,12,15,16}
135: {1,2,3,4,8,7,10,14,13,9,5,6,11,15,12,16}

136: {1,2,3,4,8,7,10,15,14,13,9,5,6,11,12,16}
137: {1,2,3,4,8,7,11,6,5,9,10,13,14,15,12,16}
138: {1,2,3,4,8,7,11,6,5,9,13,10,14,15,12,16}
139: {1,2,3,4,8,7,11,6,5,9,13,14,10,15,12,16}
140: {1,2,3,4,8,7,11,6,5,9,14,13,10,15,12,16}
141: {1,2,3,4,8,7,11,6,5,10,9,13,14,15,12,16}
142: {1,2,3,4,8,7,11,6,5,10,13,9,14,15,12,16}
143: {1,2,3,4,8,7,11,6,9,5,10,13,14,15,12,16}
144: {1,2,3,4,8,7,11,6,10,5,9,13,14,15,12,16}
145: {1,2,3,4,8,7,11,10,5,6,9,13,14,15,12,16}
146: {1,2,3,4,8,7,11,10,6,5,9,13,14,15,12,16}
147: {1,2,3,4,8,7,11,14,13,9,5,6,10,15,12,16}
148: {1,2,3,4,8,7,11,14,13,9,6,5,10,15,12,16}
149: {1,2,3,4,8,7,12,11,6,5,9,10,13,14,15,16}
150: {1,2,3,4,8,7,12,11,6,5,9,13,10,14,15,16}
151: {1,2,3,4,8,7,12,11,6,5,9,13,14,10,15,16}
152: {1,2,3,4,8,7,12,11,6,5,9,14,13,10,15,16}
153: {1,2,3,4,8,7,12,11,6,5,10,9,13,14,15,16}
154: {1,2,3,4,8,7,12,11,6,5,10,13,9,14,15,16}
155: {1,2,3,4,8,7,12,11,6,9,5,10,13,14,15,16}
156: {1,2,3,4,8,7,12,11,6,10,5,9,13,14,15,16}
157: {1,2,3,4,8,7,12,11,10,5,6,9,13,14,15,16}
158: {1,2,3,4,8,7,12,11,10,6,5,9,13,14,15,16}
159: {1,2,3,4,8,7,12,11,14,13,9,5,6,10,15,16}
160: {1,2,3,4,8,7,12,11,14,13,9,6,5,10,15,16}
161: {1,2,3,4,8,7,12,15,10,5,6,9,13,14,11,16}
162: {1,2,3,4,8,7,12,15,10,6,5,9,13,14,11,16}
163: {1,2,3,4,8,7,12,15,10,13,14,9,5,6,11,16}
164: {1,2,3,4,8,7,12,15,10,14,13,9,5,6,11,16}
165: {1,2,3,4,8,7,12,15,14,9,13,10,5,6,11,16}
166: {1,2,3,4,8,7,12,15,14,10,13,9,5,6,11,16}
167: {1,2,3,4,8,7,12,15,14,13,9,5,6,10,11,16}
168: {1,2,3,4,8,7,12,15,14,13,9,5,10,6,11,16}
169: {1,2,3,4,8,7,12,15,14,13,9,6,5,10,11,16}
170: {1,2,3,4,8,7,12,15,14,13,9,10,5,6,11,16}
171: {1,2,3,4,8,7,12,15,14,13,10,5,9,6,11,16}
172: {1,2,3,4,8,7,12,15,14,13,10,9,5,6,11,16}
173: {1,2,3,4,8,11,6,5,9,13,14,10,7,12,15,16}
174: {1,2,3,4,8,11,6,5,9,13,14,15,10,7,12,16}
175: {1,2,3,4,8,11,6,5,9,14,13,10,7,12,15,16}
176: {1,2,3,4,8,11,6,7,10,5,9,13,14,15,12,16}
177: {1,2,3,4,8,11,7,6,5,9,10,13,14,15,12,16}
178: {1,2,3,4,8,11,7,6,5,9,13,10,14,15,12,16}
179: {1,2,3,4,8,11,7,6,5,9,13,14,10,15,12,16}
180: {1,2,3,4,8,11,7,6,5,9,14,13,10,15,12,16}
181: {1,2,3,4,8,11,7,6,5,10,9,13,14,15,12,16}
182: {1,2,3,4,8,11,7,6,5,10,13,9,14,15,12,16}
183: {1,2,3,4,8,11,7,6,9,5,10,13,14,15,12,16}
184: {1,2,3,4,8,11,7,6,10,5,9,13,14,15,12,16}
185: {1,2,3,4,8,11,7,10,5,6,9,13,14,15,12,16}
186: {1,2,3,4,8,11,7,10,6,5,9,13,14,15,12,16}
187: {1,2,3,4,8,11,10,7,6,5,9,13,14,15,12,16}
188: {1,2,3,4,8,11,10,13,14,9,5,6,7,12,15,16}
189: {1,2,3,4,8,11,10,14,13,9,5,6,7,12,15,16}
190: {1,2,3,4,8,11,10,15,14,13,9,5,6,7,12,16}
191: {1,2,3,4,8,11,12,7,6,5,9,10,13,14,15,16}
192: {1,2,3,4,8,11,12,7,6,5,9,13,10,14,15,16}
193: {1,2,3,4,8,11,12,7,6,5,9,13,14,10,15,16}
194: {1,2,3,4,8,11,12,7,6,5,9,14,13,10,15,16}
195: {1,2,3,4,8,11,12,7,6,5,10,9,13,14,15,16}
196: {1,2,3,4,8,11,12,7,6,5,10,13,9,14,15,16}
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