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1 /Library/Frameworks/Python.framework/Versions/2.7/bin/
  python2.7 /Users/jianili/Documents/github/Advanced_AI/
  Homework2_HexGame/main.py
2 player1 move = [3, 4]
3 time used for this move:0.005317
4 ■■■■■■■■
5 □ . . . . . □
6 □ . . . . . □
7   □ . . . . . □
8     □ . . . . . □
9       □ . . . . . □
10        □ . . . . . □
11         □ . . . . . □
12          □ . . . . . □
13           ■■■■■■■■
14
15 -1's turn to place a ○ piece
16 player2 move = (4, 4)
17 time used for this move:0.148153
18 ■■■■■■■■
19 □ . . . . . □
20 □ . . . . . □
21   □ . . . . . □
22     □ . . . . . □
23       □ . . . . . □
24        □ . . . . . □
25         □ . . . . . □
26          □ . . . . . □
27           ■■■■■■■■
28
29 1's turn to place a ● piece
30 evaluated nodes 3845
31 tree size 143
32 player1 move = (4, 3)
33 2017-03-05 23:44:51.238 Python[14840:1568939] IMKClient
  Stall detected, *please Report* your user scenario
  attaching a spindump (or sysdiagnose) that captures the
  problem - (imkxpc_attributesForCharacterIndex:reply:) block
  performed very slowly (45.35 secs).
34 2017-03-05 23:44:51.238 Python[14840:1568939] IMKClient
  Stall detected, *please Report* your user scenario
  attaching a spindump (or sysdiagnose) that captures the
  problem - (imkxpc_windowLevelWithReply:) block performed
  very slowly (43.34 secs).
35 time used for this move:45.042187
36 ■■■■■■■■
37 □ . . . . . □
38 □ . . . . . □
39   □ . . . . . □
40     □ . . . . . □

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41  □ . . . ● ○ . . . □
42  □ . . . . . . . . □
43  □ . . . . . . . . □
44  □ . . . . . . . . □
45  ▣ ■ ■ ■ ■ ■ ■ ■ ■
46
47  -1's turn to place a ○ piece
48  player2 move = (5, 3)
49  time used for this move:0.316169
50  ■ ■ ■ ■ ■ ■ ■ ▣
51  □ . . . . . . . . □
52  □ . . . . . . . . □
53  □ . . . . . . . . □
54  □ . . . . ● . . . □
55  □ . . . ● ○ . . . □
56  □ . . . ○ . . . . □
57  □ . . . . . . . . □
58  □ . . . . . . . . □
59  ▣ ■ ■ ■ ■ ■ ■ ■ ■
60
61  1's turn to place a ● piece
62  2017-03-05 23:45:53.857 Python[14840:1568939] IMKClient
    Stall detected, *please Report* your user scenario
    attaching a spindump (or sysdiagnose) that captures the
    problem - (imkxpc_attributesForCharacterIndex:reply:) block
    performed very slowly (42.15 secs).
63  evaluated nodes 7446
64  tree size 320
65  2017-03-05 23:45:53.857 Python[14840:1568939] IMKClient
    Stall detected, *please Report* your user scenario
    attaching a spindump (or sysdiagnose) that captures the
    problem - (imkxpc_windowLevelWithReply:) block performed
    very slowly (40.15 secs).
66  player1 move = (5, 2)
67  time used for this move:41.735119
68  ■ ■ ■ ■ ■ ■ ■ ▣
69  □ . . . . . . . . □
70  □ . . . . . . . . □
71  □ . . . . . . . . □
72  □ . . . . ● . . . □
73  □ . . . ● ○ . . . □
74  □ . . ● ○ . . . . □
75  □ . . . . . . . . □
76  □ . . . . . . . . □
77  ▣ ■ ■ ■ ■ ■ ■ ■ ■
78
79  -1's turn to place a ○ piece
80  player2 move = (6, 2)
81  time used for this move:0.071628
82  ■ ■ ■ ■ ■ ■ ■ ▣

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83  □ . . . . . □
84  □ . . . . . □
85  □ . . . . . □
86  □ . . . . ● . . . □
87  □ . . . ● ○ . . . □
88  □ . . ● ○ . . . . □
89  □ . . ○ . . . . . □
90  □ . . . . . . . . □
91  ▣ ■ ■ ■ ■ ■ ■ ■ ■
92
93  1's turn to place a ● piece
94  2017-03-05 23:46:33.240 Python[14840:1568939] IMKClient
    Stall detected, *please Report* your user scenario
    attaching a spindump (or sysdiagnose) that captures the
    problem - (imkxpc_attributesForCharacterIndex:reply:)
    block performed very slowly (35.85 secs).
95  evaluated nodes 10811
96  tree size 492
97  2017-03-05 23:46:33.240 Python[14840:1568939] IMKClient
    Stall detected, *please Report* your user scenario
    attaching a spindump (or sysdiagnose) that captures the
    problem - (imkxpc_windowLevelWithReply:) block performed
    very slowly (33.84 secs).
98  player1 move = (6, 1)
99  time used for this move:35.531603
100  ■ ■ ■ ■ ■ ■ ■ ■ ▣
101  □ . . . . . □
102  □ . . . . . □
103  □ . . . . . □
104  □ . . . . ● . . . □
105  □ . . . ● ○ . . . □
106  □ . . ● ○ . . . . □
107  □ . ● ○ . . . . . □
108  □ . . . . . . . . □
109  ▣ ■ ■ ■ ■ ■ ■ ■ ■
110
111  -1's turn to place a ○ piece
112  player2 move = (7, 1)
113  time used for this move:0.085907
114  ■ ■ ■ ■ ■ ■ ■ ■ ▣
115  □ . . . . . □
116  □ . . . . . □
117  □ . . . . . □
118  □ . . . . ● . . . □
119  □ . . . ● ○ . . . □
120  □ . . ● ○ . . . . □
121  □ . ● ○ . . . . . □
122  □ . ○ . . . . . □
123  ▣ ■ ■ ■ ■ ■ ■ ■ ■
124

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125 1's turn to place a ● piece
126 evaluated nodes 13948
127 2017-03-05 23:47:11.662 Python[14840:1568939] IMKClient
    Stall detected, *please Report* your user scenario
    attaching a spindump (or sysdiagnose) that captures the
    problem - (imkxpc_attributesForCharacterIndex:reply:)
    block performed very slowly (33.46 secs).
128 tree size 664
129 player1 move = (7, 0)
130 2017-03-05 23:47:11.663 Python[14840:1568939] IMKClient
    Stall detected, *please Report* your user scenario
    attaching a spindump (or sysdiagnose) that captures the
    problem - (imkxpc_windowLevelWithReply:) block performed
    very slowly (31.46 secs).
131 time used for this move:33.344758
132 ■■■■■■■■■■
133 □ . . . . . □
134 □ . . . . . □
135 □ . . . . . □
136 □ . . . . ● . . . □
137 □ . . . ● ○ . . . □
138 □ . . ● ○ . . . . □
139 □ . ● ○ . . . . . □
140 □ ● ○ . . . . . □
141 ■■■■■■■■■■
142
143 -1's turn to place a ○ piece
144 player2 move = (2, 5)
145 time used for this move:0.088968
146 ■■■■■■■■■■
147 □ . . . . . □
148 □ . . . . . □
149 □ . . . . ○ . . . □
150 □ . . . . ● . . . □
151 □ . . . ● ○ . . . □
152 □ . . ● ○ . . . . □
153 □ . ● ○ . . . . . □
154 □ ● ○ . . . . . □
155 ■■■■■■■■■■
156
157 1's turn to place a ● piece
158 evaluated nodes 16865
159 2017-03-05 23:47:47.074 Python[14840:1568939] IMKClient
    Stall detected, *please Report* your user scenario
    attaching a spindump (or sysdiagnose) that captures the
    problem - (imkxpc_attributesForCharacterIndex:reply:)
    block performed very slowly (30.42 secs).
160 tree size 817
161 player1 move = (2, 4)
162 2017-03-05 23:47:47.074 Python[14840:1568939] IMKClient

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162 Stall detected, \*please Report\* your user scenario  
attaching a spindump (or sysdiagnose) that captures the  
problem - (imkxpc\_windowLevelWithReply:) block performed  
very slowly (28.42 secs).

163 time used for this move:30.40738

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164 ■■■■■■■■■■
165 □ . . . . . □
166 □ . . . . . □
167 □ . . . . ● ○ . . □
168 □ . . . . ● . . . □
169 □ . . . ● ○ . . . □
170 □ . . ● ○ . . . . □
171 □ . ● ○ . . . . . □
172 □ ● ○ . . . . . □
173 ■■■■■■■■■■

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174  
175 -1's turn to place a ○ piece

176 player2 move = (1, 5)  
177 time used for this move:0.070934

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178 ■■■■■■■■■■
179 □ . . . . . □
180 □ . . . . ○ . . . □
181 □ . . . . ● ○ . . □
182 □ . . . . ● . . . □
183 □ . . . ● ○ . . . □
184 □ . . ● ○ . . . . □
185 □ . ● ○ . . . . . □
186 □ ● ○ . . . . . □
187 ■■■■■■■■■■

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188  
189 1's turn to place a ● piece

190 evaluated nodes 19570

191 tree size 970

192 player1 move = (1, 4)

193 2017-03-05 23:48:19.171 Python[14840:1568939] IMKClient  
Stall detected, \*please Report\* your user scenario  
attaching a spindump (or sysdiagnose) that captures the  
problem - (imkxpc\_attributesForCharacterIndex:reply:)  
block performed very slowly (28.28 secs).

194 2017-03-05 23:48:19.172 Python[14840:1568939] IMKClient  
Stall detected, \*please Report\* your user scenario  
attaching a spindump (or sysdiagnose) that captures the  
problem - (imkxpc\_windowLevelWithReply:) block performed  
very slowly (26.27 secs).

195 time used for this move:28.253598

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196 ■■■■■■■■■■
197 □ . . . . . □
198 □ . . . . ● ○ . . □
199 □ . . . . ● ○ . . □
200 □ . . . . ● . . . □

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201  □ . . . ● ○ . . . □
202  □ . . ● ○ . . . □
203  □ . ● ○ . . . □
204  □ ● ○ . . . □
205  ▣ ■ ■ ■ ■ ■ ■ ■ ■
206
207  -1's turn to place a ○ piece
208  player2 move = (0, 4)
209  time used for this move:0.094164
210  ■ ■ ■ ■ ■ ■ ■ ▣
211  □ . . . ○ . . . □
212  □ . . . ● ○ . . . □
213  □ . . . ● ○ . . . □
214  □ . . . ● . . . □
215  □ . . . ● ○ . . . □
216  □ . . ● ○ . . . □
217  □ . ● ○ . . . □
218  □ ● ○ . . . □
219  ▣ ■ ■ ■ ■ ■ ■ ■ ■
220
221  1's turn to place a ● piece
222  player1 move = (0, 5)
223  time used for this move:0.016235
224  ■ ■ ■ ■ ■ ■ ■ ▣
225  □ . . . ○ ● . . . □
226  □ . . . ● ○ . . . □
227  □ . . . ● ○ . . . □
228  □ . . . ● . . . □
229  □ . . . ● ○ . . . □
230  □ . . ● ○ . . . □
231  □ . ● ○ . . . □
232  □ ● ○ . . . □
233  ▣ ■ ■ ■ ■ ■ ■ ■ ■
234
235  1's turn to place a ● piece
236  1 wins
237

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