

# Gomoku Debug Instruction

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## Step 1

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Uncomment the debug section in code

```
107 # define a file for logging ...
108 DEBUG_LOGFILE = "D:/pbrain-pyrandom-master/pbrain-pyrandom.log"
109 # ...and clear it initially
110 with open(DEBUG_LOGFILE, "w") as f:
111     pass
112
113 # define a function for writing messages to the file
114
115
116 def logDebug(msg):
117     with open(DEBUG_LOGFILE, "a") as f:
118         f.write(msg+"\n")
119         f.flush()
120
121 # define a function to get exception traceback
122 def logTraceBack():
123     import traceback
124     with open(DEBUG_LOGFILE, "a") as f:
125         traceback.print_exc(file=f)
126         f.flush()
127     raise
```

PS: the `DEBUG_LOGFILE` path should be set to a absolute path like `"D:/pbrain-pyrandom-master/pbrain-pyrandom.log"`

## Step 2

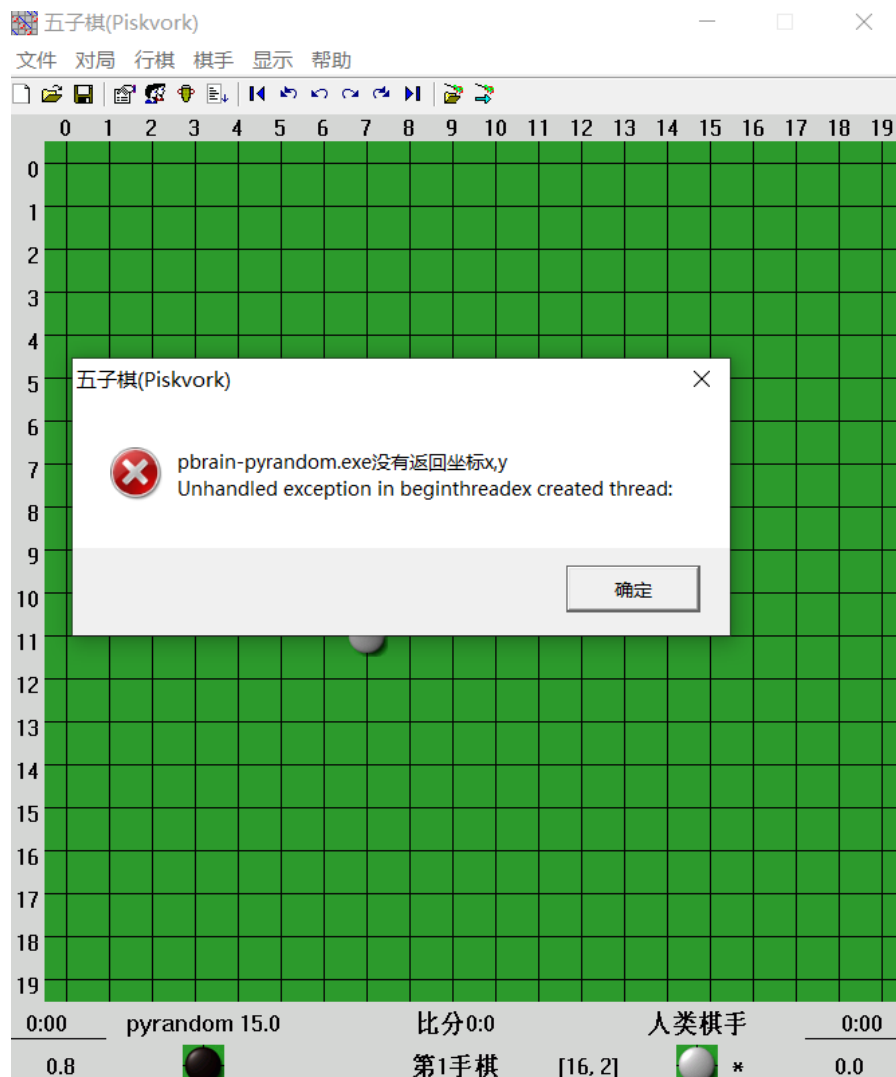
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Add try... except into the `brain_turn()`

```
60 def brain_turn():
61     try:
62         if pp.terminateAI:
63             return
64         i = 0
65         logDebug('Hi') # print the content that you need into the log file
66         a = 1/0
67         while True:
68             x = random.randint(0, pp.width)
69             y = random.randint(0, pp.height)
70             i += 1
71             if pp.terminateAI:
72                 return
73             if isFree(x, y):
74                 break
75             if i > 1:
76                 pp.pipeOut("DEBUG {} coordinates didn't hit an empty field".format(i))
77                 pp.do_mymove(x, y)
78         except:
79             logTraceBack() # write the bug information into the log file
```

PS: `logDebug()` acts as the print that can write the content you need into the log file, `logTraceBack()` can write the bug information into the log file, say in this case we have error  $a = 1/0$

Compile the script into exe and excute it in the piskvork platform.



## Step 3

Check the log file and find your bug

