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# CS 156 SPRING 2021

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# Homework 6

Summarize your observation in terms of:

|  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 3x3 | 3x3 | 2x2 | 3x4 | 3x100000 | 4x4 | 4x6 | 4x8 | 5x4 | 8x2 |
| Minimax | 65,008 | 9 | 65,022 | - | - | - | - | - | - |
| Alphabeta | 5,379 | 9 | 7,992 | - | - | - | - | - | - |
| abdl | 1,250 | 9 | 2,117 | 6,367 | 63,857 | 886,610 | 6,326,404 | 529,880 | 466,144 |

1. Any other insights from running your code on different values of N and depth.

The number of nodes evaluated will be different between depth and the size of the board. The bigger size of N will have more nodes evaluated. The deeper will have more node evaluated.

The node evaluated will be effected by the depth more than the size of the board.

The minimax will have nodes evaluated > alphabeta > abdl

1. Implementing Alphabeta with limited depth

On code file