Jonathan Barkley – Assignment 5

3.

	Recursive	Iterative
5	6e-07s	7.06e-05s
10	2.7e-06s	0.0008889s
15	6.04e-05s	0.283933s
20	0.0032963s	1.12665s
25	0.0752966s	26.4026s
30	2.4898s	853.818s
50	>20 minutes, tired of waiting	Honestly didn't want to try

4. The minimum number of movies to solve a puzzle can be calculated by 2^n-1, meaning 100 discs would be 2 to the 100th power... which according to the internet would be 1,267,650,600,228,229,401,496,703,205,375 moves... A number so big I don't know that it even has a name. A computer would likely run out of memory before it got close to solving it, to say nothing of the time it might take.