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CS 372

Dr. Lewis

Assignment 4

4.

It is not a good idea to run 100 or 1000 disks in the Towers of Hanoi program because the minimum number of moves is found by the equation (2^n)-1 where n is the number of disks. This means when you double the number of disks, you are not doubling the number of moves, nor the amount of time a function takes, you are instead exponentially increasing the number of moves and time it takes to make the moves. Since 25 disks took several hours, 30 disks would take days, 50 disks would take weeks, thus 100 disks would take months, and 1000 disks would take years. I don’t have years to wait before this class ends.