

Adrian Murillo

CSE 13S

WRITE UP

The results of this assignments let us understand the differences between recursive and iterative versions behind the same logical problem. As well we learned a bit of the mathematical design behind the popular puzzle. This are the results:

- The recursive version of the code was easier to write, but in terms of runtime it was more complex. It took my computer a total of 3 minutes to perform the game for a tower 20 disks high.
- The iterative stack version was more difficult to write, as the logic behind it is less obvious. The code ended up being longer, but it managed to run the code in a less complex way. It took my computer a total of 1:40 minutes to perform the game of a tower of 20 disks high.
- The minimum amount of moves for any tower of Hanoi is $2^n - 1$ for n being the number of disks in the tower.