

## Mini HW #2

Due Time: 2016/10/13 (Thu.) 14:20

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A Double Tower of Hanoi contains  $2n$  disks of  $n$  different sizes, two of each size. As usual, we're required to move only one disk at a time, without putting a larger one over a smaller one. The disks of equal size are indistinguishable from each other.  $T(2n)$  is the minimum number of moves it takes to transfer a double tower from one peg to another. Find the recurrence relation of  $T(2n)$ , and the tight bound for  $T(2n)$ .