Artificial Intelligence

INTE 41242

Assignment 01

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**Tower of Hanoi Problem**

Tower of Hanoi is a mathematical puzzle where we have three rods and n disks. The objective of the puzzle is to move the entire stack to another rod, obeying the following simple rules

1) Only one disk can be moved at a time.   
2) Each move consists of taking the upper disk from one of the stacks and placing it on top of another stack. a disk can only be moved if it is the uppermost disk on a stack.   
3) No disk may be placed on top of a smaller disk.  
Note: Transferring the top n-1 disks from source rod to Auxiliary rod can again be thought of as a fresh problem and can be solved in the same manner.

