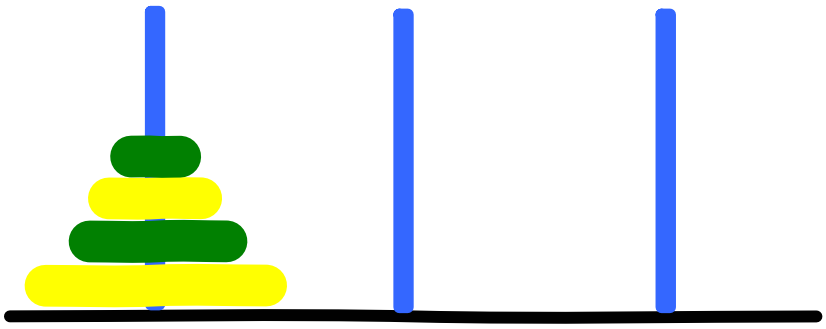
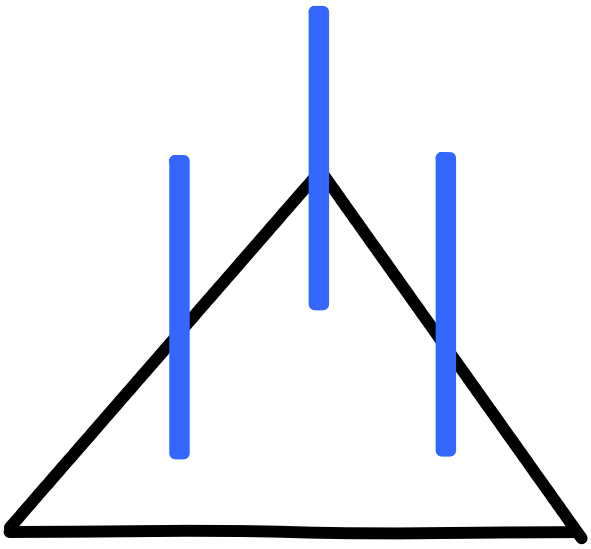
Towers of Hanoi

Note Title 30/11/2006



Move n disks from one pole to the next
- one at a time
- so that a larger disk is never on top of a smaller disk.



Arrange the poles in a circle
- avoids unnecessary naming of the poles.

Inductive Hypothesis

n	no. of disks
d	direction of movement
H	sequence of moves

H.(n, d) is the sequence of moves needed to move the n *smallest* disks in direction d, irrespective of how many other disks are on the poles.

Inductive solution

n	no. of disks
d	direction of movement
H	sequence of moves