

### **Tower of Hanoi – Inverted Solution:**

If the tower consisted of only 1 disk, the puzzle could be completed in only 1 move.

If the tower consisted of 2 disks, the puzzle could be completed in 3 moves.

If the tower consisted of 3 disks, the puzzle could be completed in 7 moves.

For each of these cases, the number of moves is  $2^n - 1$ .

Thus, for the 5 disk model, the puzzle could be completed in  $2^5 - 1 = 31$  moves.