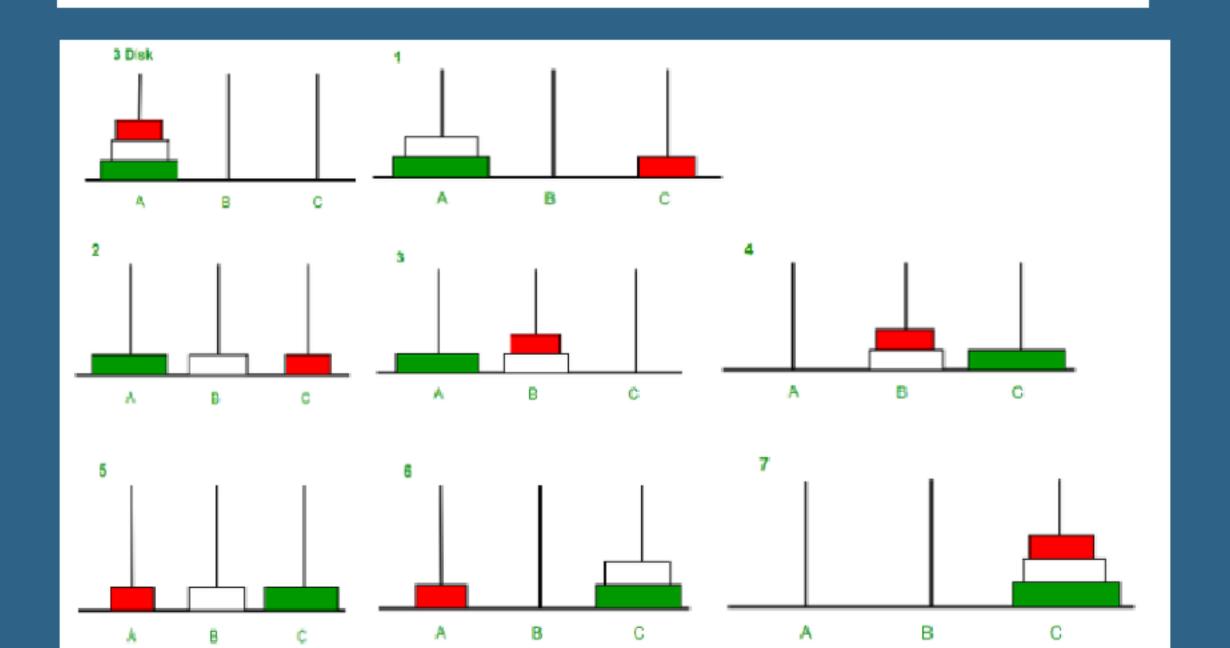
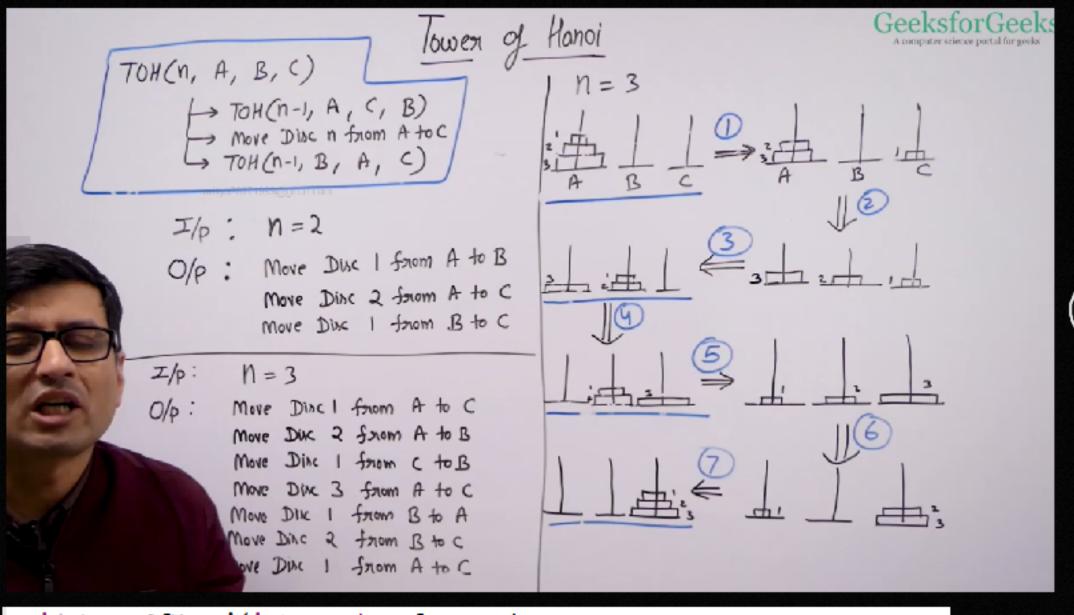
Tower of Hanoi is a mathematical puzzle where we have three rods and n disks. The objective of the puzzle is to move the entire stack to another rod, obeying the following simple rules:

- 1. Only one disk can be moved at a time.
- Each move consists of taking the upper disk from one of the stacks and placing it on top of another stack i.e. 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.





```
Original Ann Final
(1) From original moul (n-1) du as
 10 (B) uny Cas aum.
    from D to C:
```

(3) NTh Disc at its right hartion.

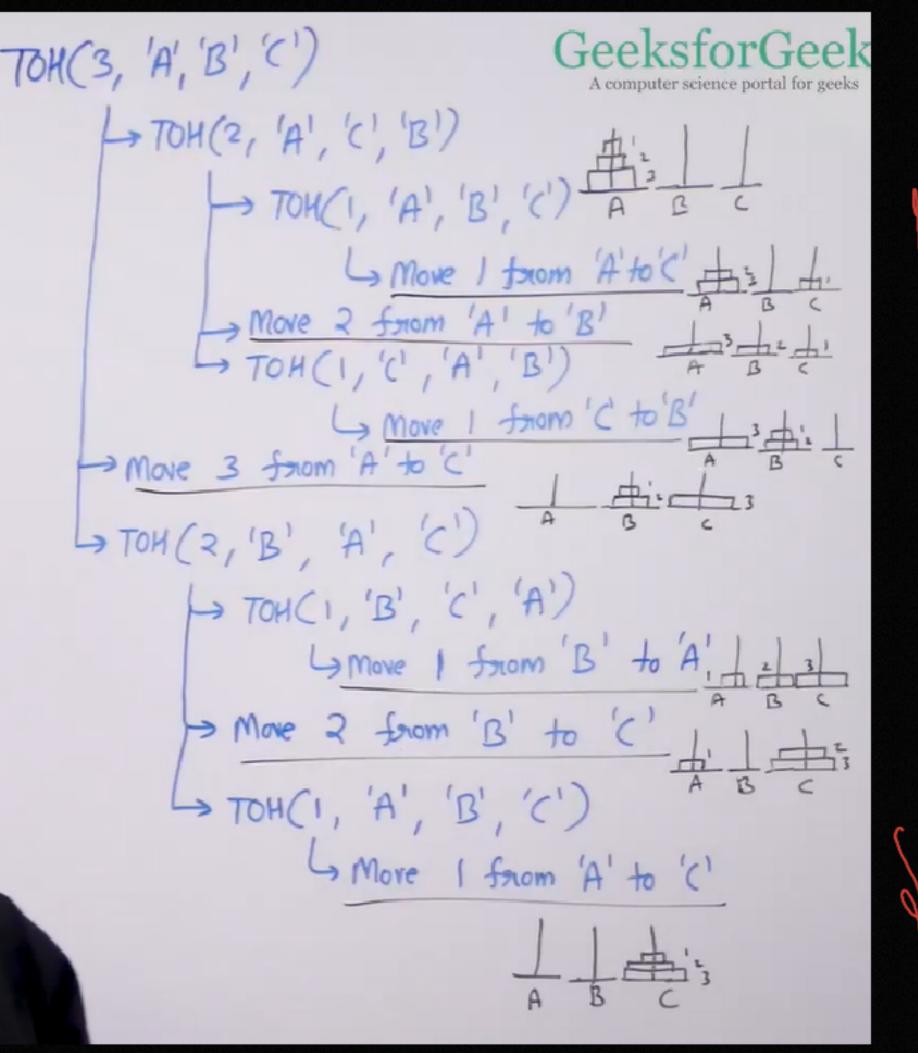
(9) Transfer [3] -> [C] wany [A] cos

Aun
Murely oriensoniely culting for the fre
organ

```
// avoid space at the starting of the string in "move disk....."
Long Long toh(int N, int A, int B, int C) {
Long Long moves = 0ll;
if (N >= 1) {
    // recursive call to move top disk from "from" to aux in current call
    moves += toh(N - 1, A, C, B);
    printf( "move disk %d from rod %d to rod %d\n" , N, A, B);
    // increment moves
    moves++;

    // recursive call to move top disk from aux to "to" in current call
    moves += toh(N - 1, C, B, A);
}
return moves;
```

Momes rug bo mome (N.) dison from A -> C 18 as aux.



(1) Base case Rebun when N:: 14 (2) (grun p, 5, 6 (2-1) (N-1) glater on mun (3) Mouse the Nth felaler from A (4) (all for &anferry (Nn-1) plates from Blob ung Ras aun array