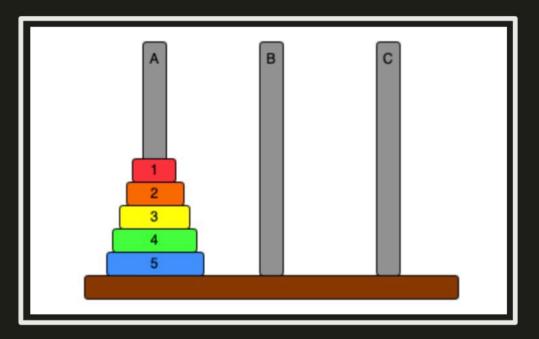
11:07 AM

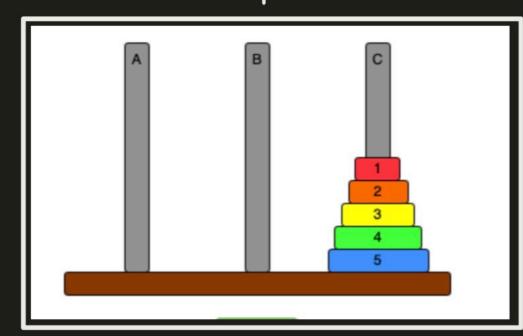




toh(N,A,C,B)

expectation from the func implementate

Output.

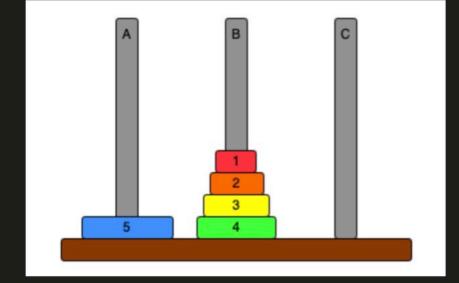


toh (N-1, A, B, C)

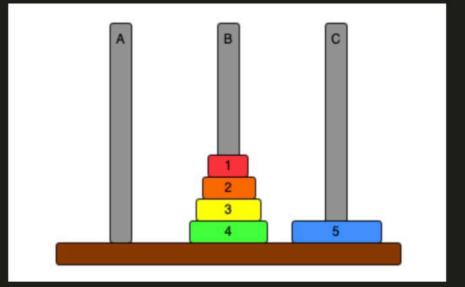
faith that the recursive coul for a smouler input will do its job.

fourth Step.

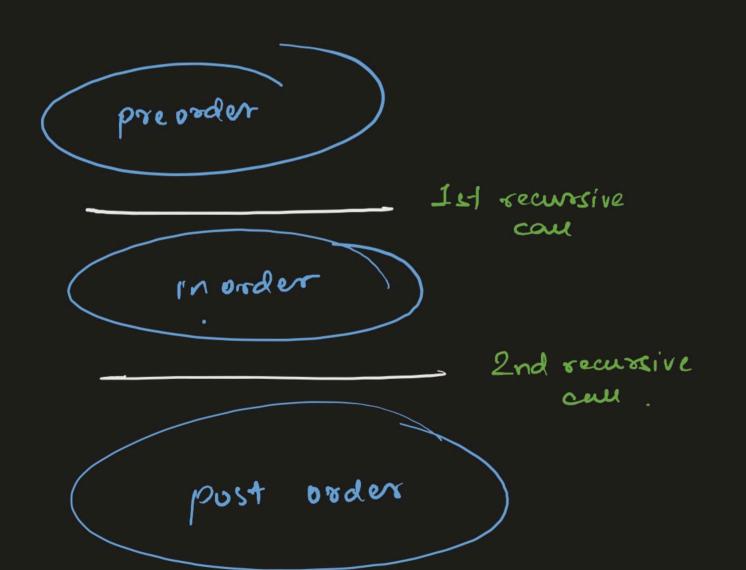
ton (N-1, B, C,A).

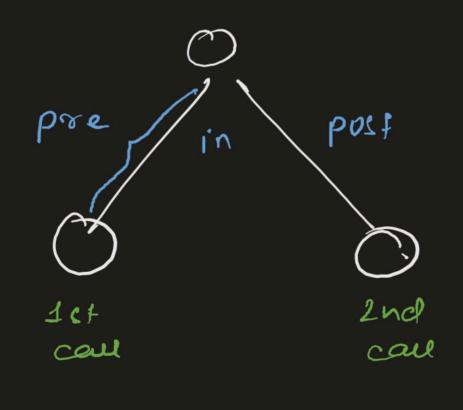


move the last block from A to c



toh (n, A, C, B) = $\begin{cases} toh (n-1, A, B, C) \end{cases}$ toh (n, A, C, B) = $\begin{cases} toh (n-1, A, B, C) \end{cases}$ toh (n-1, B, C, I)





```
1: A to C.

2: A to B

1: C to B

3: A to C

1: B to A

2: B to C

1: A to C
```

Doy Run

_O GIC main () Euler's parth toh (3, A, c, B) Swap reverse lact 2 all. toh (2, B, C, A) tuh (2, A, B, C) toh (1, A, C, B) toh (1, B, A, C) ton (1, C,B,A) toh(1, 1, c,B) 0

Time complexity: ->,
$$O(2^n)$$
.

$$T(n) = T(n-1) + 1 + T(n-1)$$

$$\Rightarrow T(n) = 2T(n-1) + 1.$$

$$\Rightarrow T(n) = 2T(n-1) = 2^{n}.$$

$$\Rightarrow T(n-1) = 2T(n-2)$$

$$\Rightarrow T(n-2) = 2T(n-3)$$

$$\Rightarrow T(n-2) = 2T(n-3)$$

$$=$$
, $T(3) = 2T(2) = 2(2c) = 2c$.

$$\pm 1$$
 ± 1 ± 1