$f(n \to n-1)$ Recursion :→

Print numbers 1 to N

Call Stack :→ print(5)
↳ print(4)
↳ print(3)
↳ print(2)
. . . print(0) →

return (No printing Yet)

print(1) → 1

Downward Calls :

5 → 4 → 3 → 2 → 1 → 0
↓
return

Upward Printing

1 → 2 → 3 → 4 → 5

Count No of digits in a number :→

(1234) { (n == 0) ↳ 0 }

1 + Count(123)
1 + 1 + Count(12)
1 + 1 + 1 + Count(1)
1 + 1 + 1 + 1 + Count(0)
= 4 ✓

Sum of digits :→

{ 1234 = 1+2+3+4 = 10 }

{ Print Even Numbers from 2 to N : N = 10
2, 4, 6, 8, 10 }

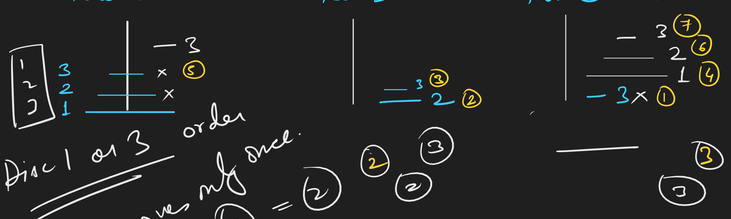
void printEven(int n) {

}

Tower of Hanoi :→ { n = 3 → $2^3 - 1 = 7$ }

① Lift only top
② No { B / S }
③ No 2 at a time

src Rod A | Aux Rod B | Dest Rod C



Disc 1 or 3 order moves only once.

3 = 2
n-1

Move (n-1) → Move n^{th} → Move (n-1)
discs discs