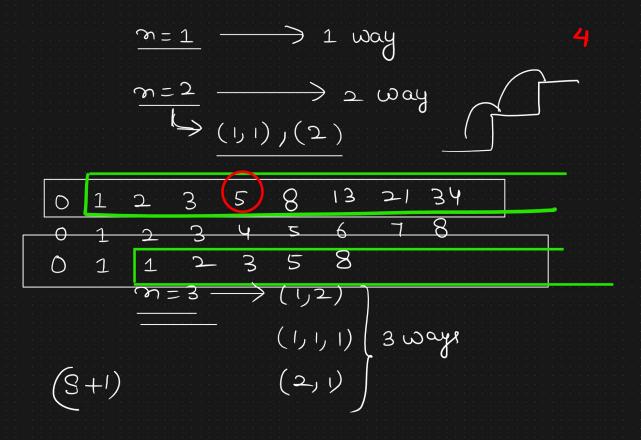
Count number of ways to reach upstairs

L) 1 step at a time or 2 steps at a time



$$\frac{m=4}{(0,0,0,0)}$$

$$(2,2)$$

$$(1,2,0)$$

$$(2,0)$$

$$(2,0)$$

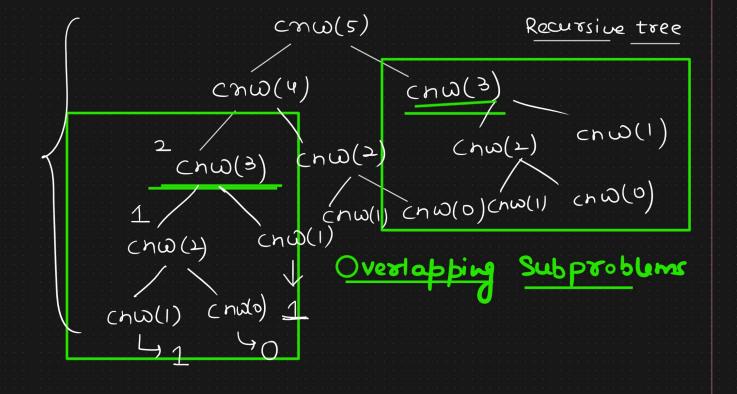
$$(1,0,2)$$

$$\frac{\text{cn}\omega(n)}{\text{if } n < 1}$$

$$\text{if } n < 1$$

$$\text{if } n < 1$$

$$\text{else } cn\omega(n-1) + cn\omega(n-2)$$



n -> very very large

Dynamic Programmiy