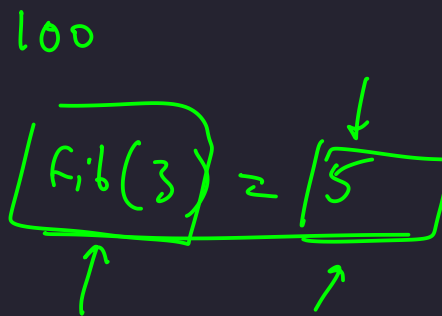
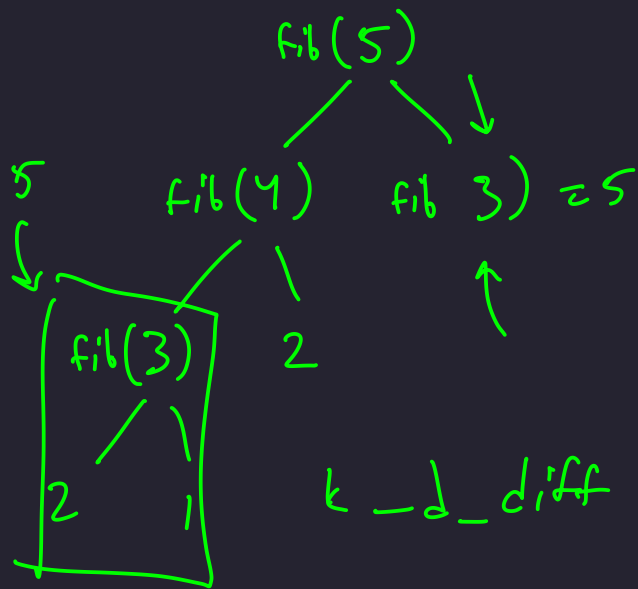


Memoization:  $\text{fib}(n)$ :

$$\rightarrow \text{fib}(n-1) + \text{fib}(n-2)$$



$k\_d\_diff( )$   $k\_d\_diff( )$

$$d = \{ \text{fib}(5) : val \}$$

if computed  $\text{fib}(n)$ :

$d[\text{fib}(n)]$

else:

$\text{fib}(n)$

add to  $d$