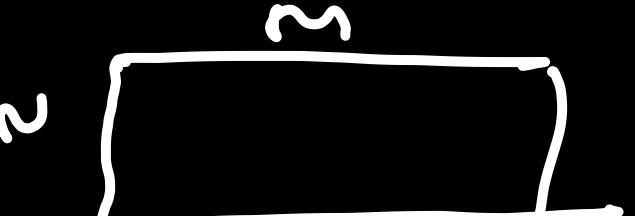
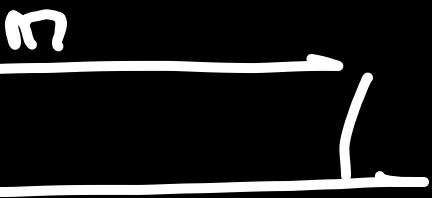
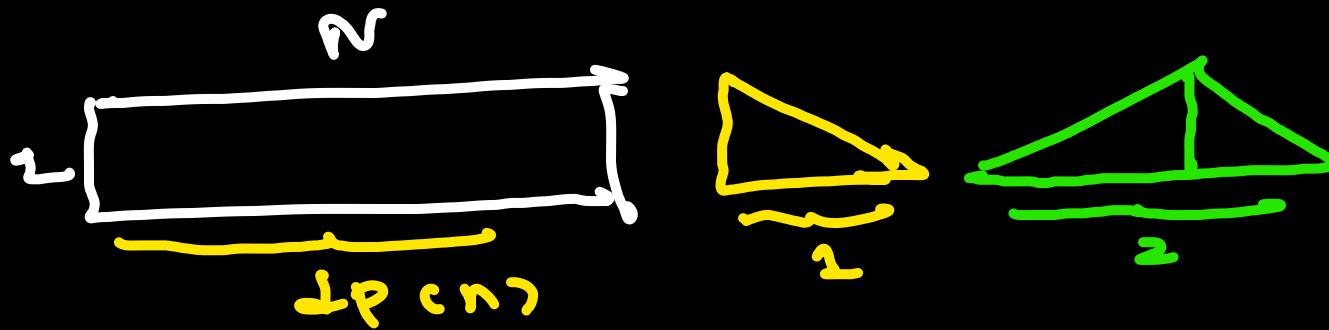


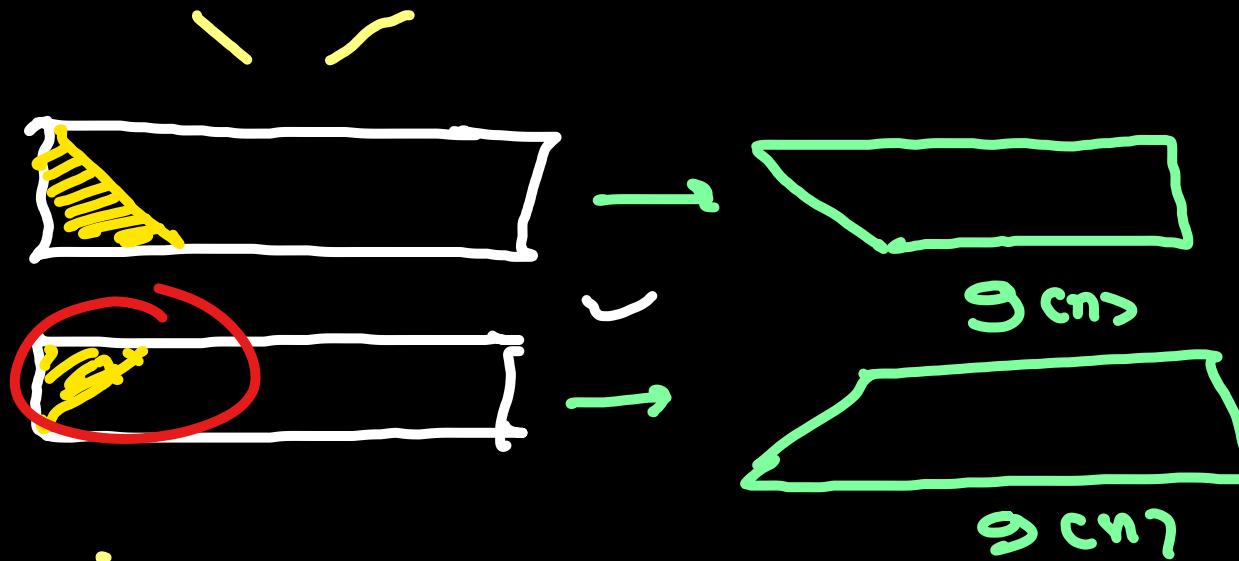
$N \times M$ ~ 

subgoal ($C_N = 1 \rightarrow C_{50\%}$)

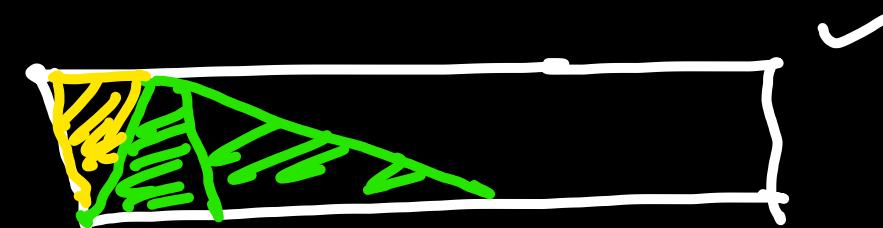
1 



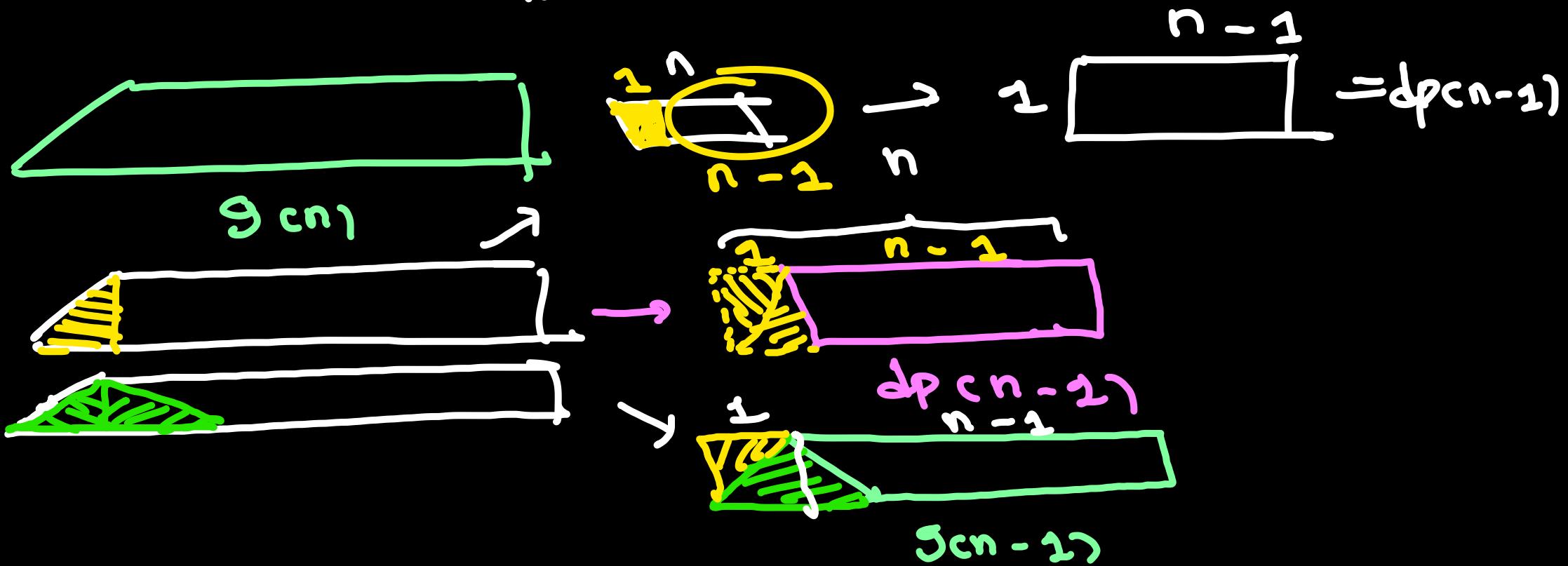
$dp(n)$ = menyatakan banyaknya cara memasang karpet berukuran $1 \times n$



$g(n)$ = banyaknya cara memasang karpet pada trapesium berukuran $1 \times n$



$$\underline{dp(n) = 2g(n)}$$



$$g(cn) = dp(cn-1) + g(cn-1)$$

$$dp(n) = 2g(n)$$

$$g(n) = dp(n-1) + g(n-1)$$

$$g(n) = 2g(n-1) + g(n-1)$$

$$g(n) = 3g(n-1)$$

$$dp(n) = 2 \cdot 3g(n-1)$$

$$= 3g(n-1) \rightarrow 3 \cdot 2g(n-1)$$

$$dp(n) = 3dp(n-1)$$

base case

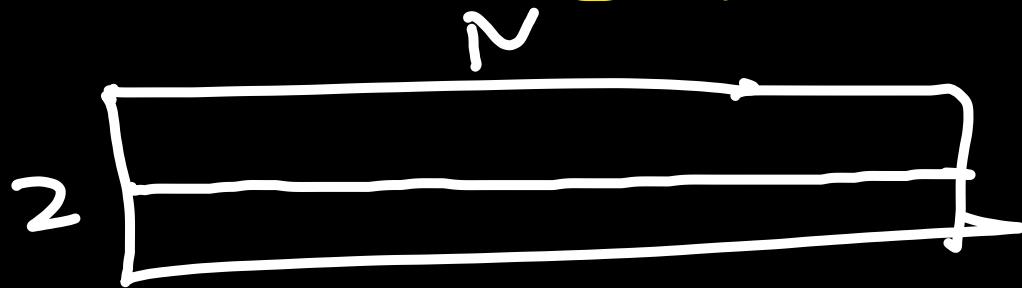
~~1 + 1~~

ada 2 cara pasang k arang $dp(1) = 2$

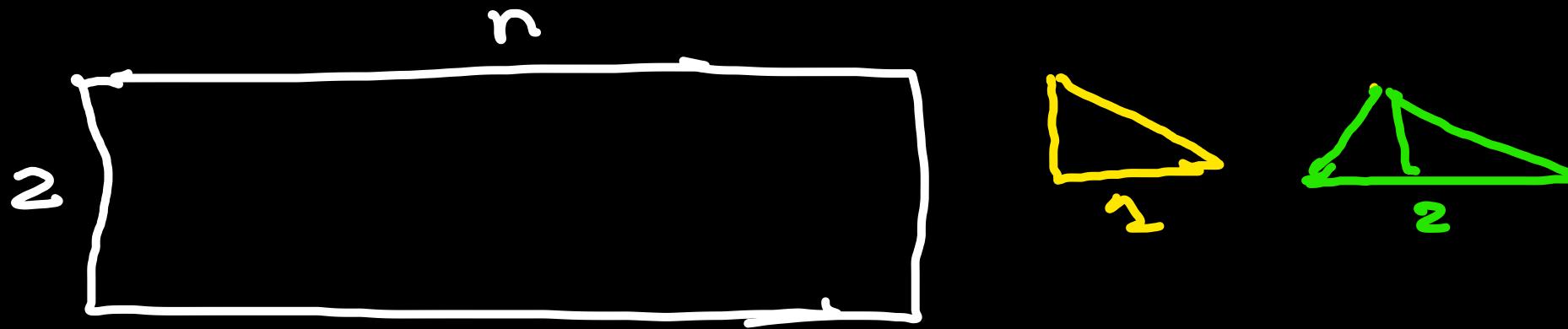
pasang k arang 1×1

Subsoal 2 ($1 \leq n \leq 2$)

$$N = 2$$



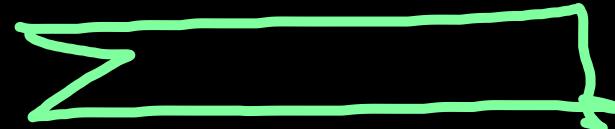
Coba cari dpcnnya?



$\partial P(n)$



$a(n)$



$a(n)$

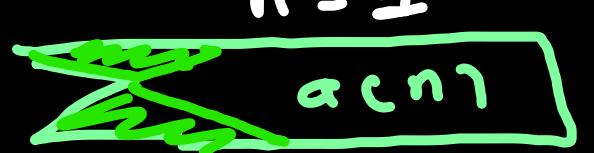


$b(n)$

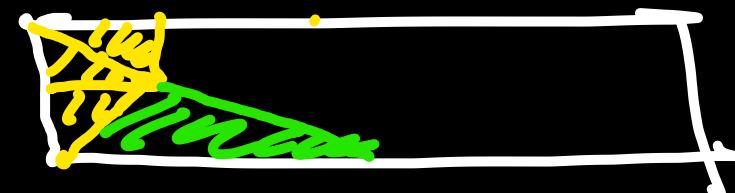
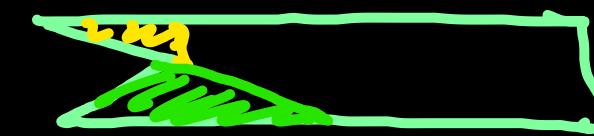
$$d_p(n) = 2acn + bcn$$



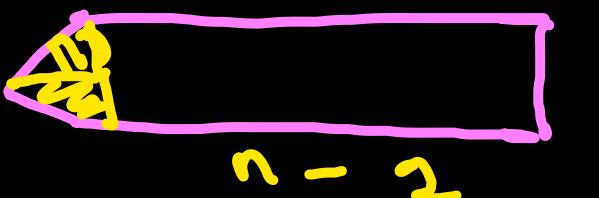
$$\rightarrow d_p(n-1)$$



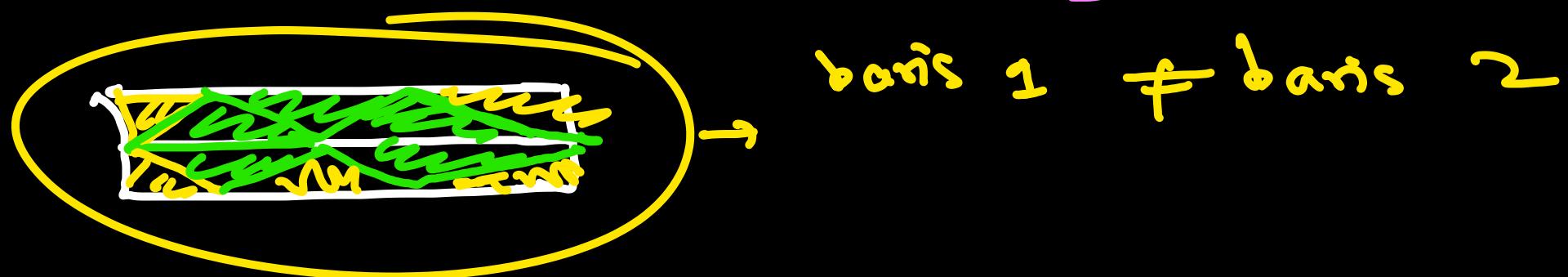
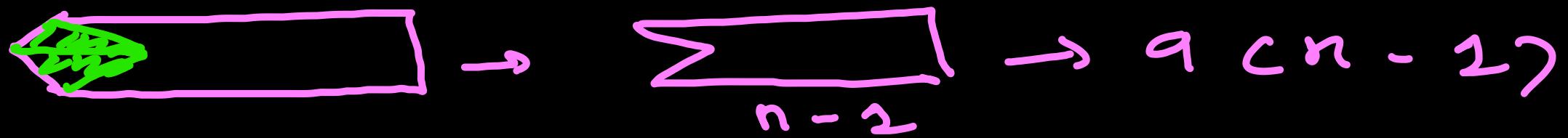
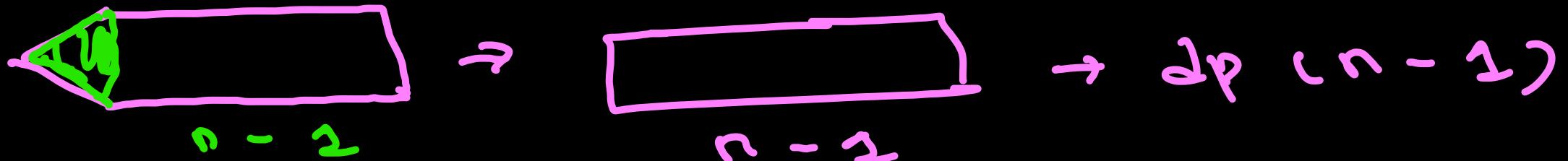
$$\rightarrow bc(n-1)$$



$$\rightarrow d(n)$$

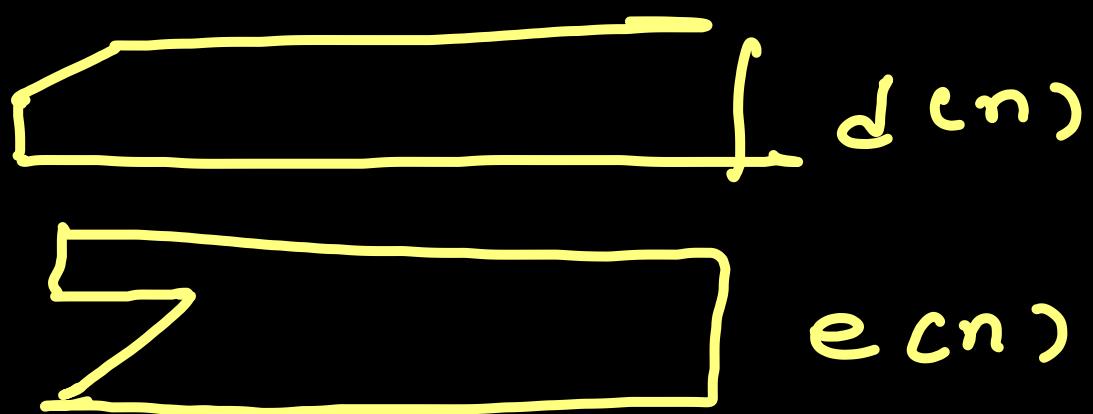


$$\rightarrow d_p(n-1)$$



$$q(n) = dp(n-1) + xc_{n-1} + dc_{n-1}$$

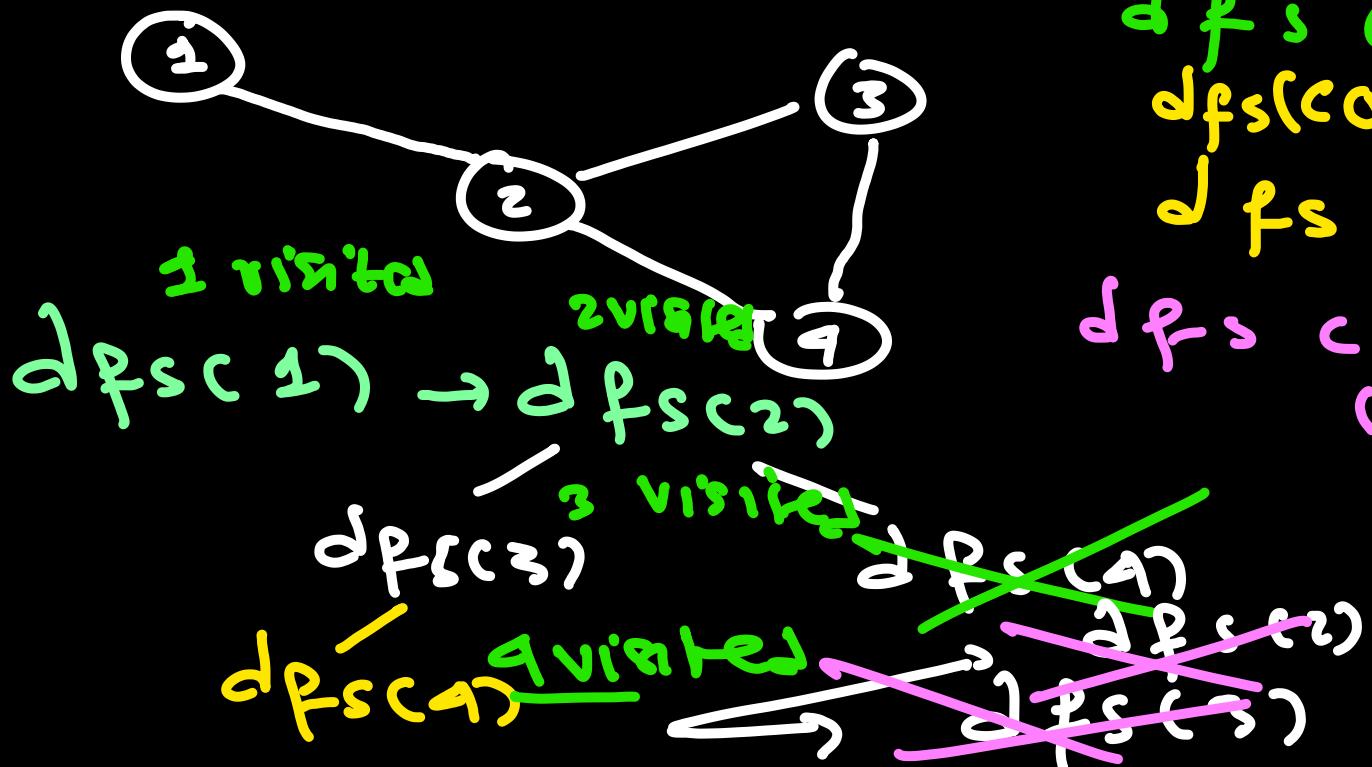
$$b(n) = 2dp(n-1) + q(n-1) + ec_{n-1}$$



Stack and Queue

DFS < Rekursiv
Stack
BFS → Queue

• DFS (Depth First Search)



dfs(n)

→ MARK n
visited

dfs(1)

dfs(connection(1))

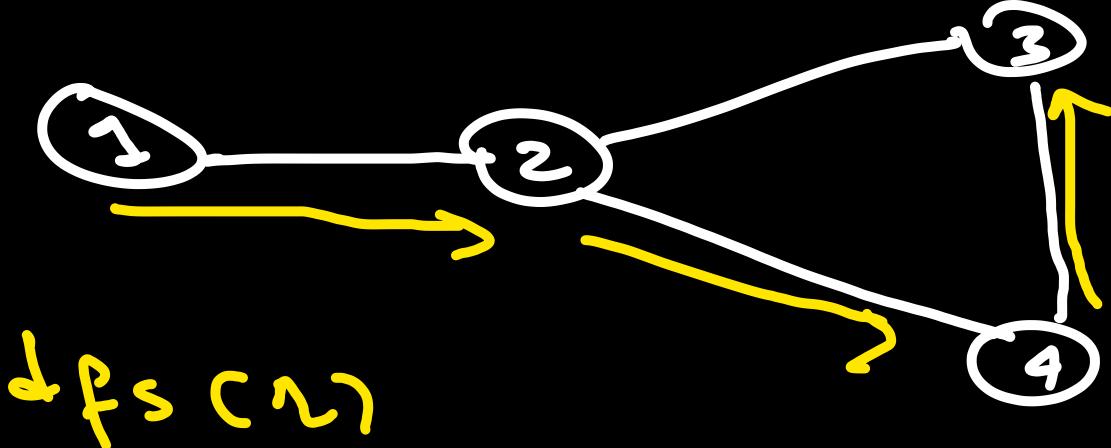
dfs(2)

dfs(connection(2)):

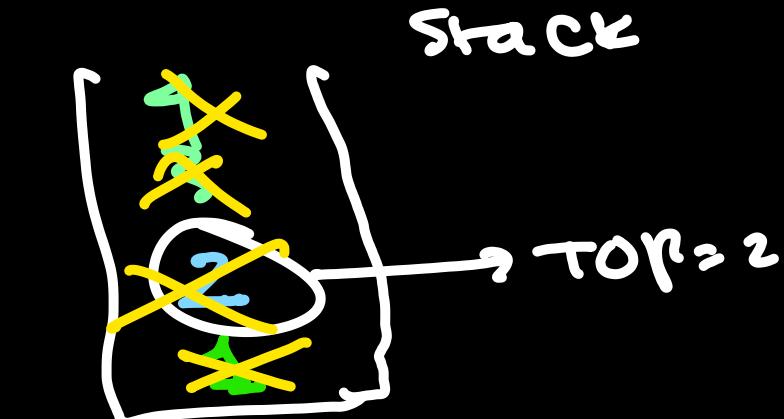
(if connection = visited)

continue

dfs(connection)



dfs(1)



dfs(2) =

$$\begin{aligned} x &= 5 \\ y &= x \\ y &= 5 \end{aligned}$$

$y = \text{duplicate}(x)$

$x = 2$

$$\begin{aligned} x &= 5 \\ y &= 1 \end{aligned}$$

~~x = 5~~

~~y =~~

~~out & y < endl~~

~~address~~

~~0x abc5~~

~~0x abc5~~

* (Pointer)

* Var -

