Longust Common Subsequence Jium & strings -> SI & S& length of Iongest common Subsyrung Ex 1 S1 7 xy 22 y  $Sz \rightarrow \chi b \gamma b^2 \gamma \rightarrow \chi, b, \eta b \gamma, \eta b 2 \cdots$ 2 y 2 y -> 4 2 y 2 y -> 4

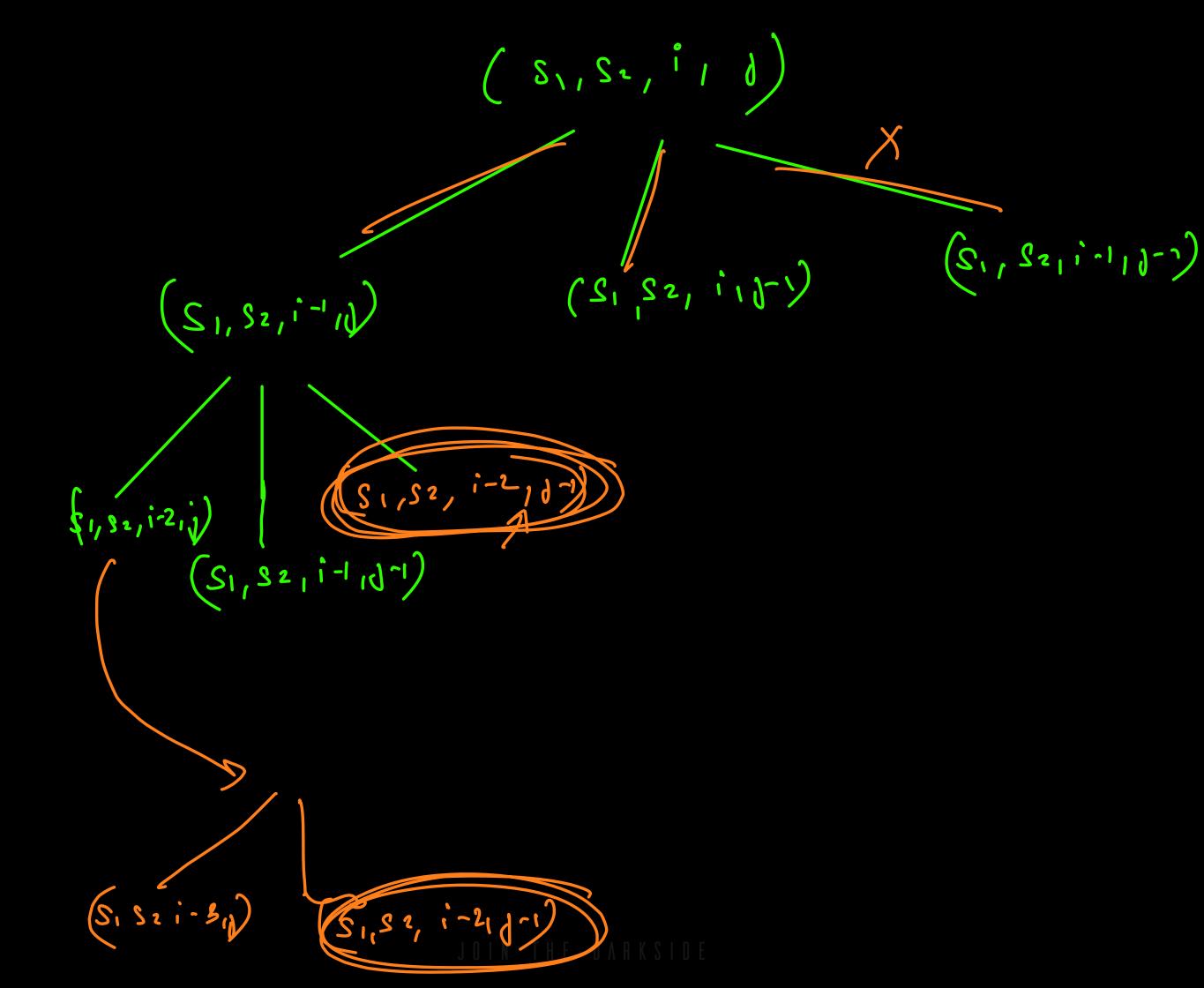
> Common Subsequent Common orderny also nattus if our go, in dur cy hour is dur is dur. I walk is lcs (abzz, dbyyz) Si ab x 2

Sz + db y y z

im le jth char cou qual 1 + les (aba, dbyy)

ab, dbyy a by,db a,db

$$f\left(S_{1}, S_{2}, i_{1}\right) = \begin{cases}
1 + f(S_{1}, S_{2}, i_{1}) & \text{if } \\
S_{1} = S_{2} = S_{3} =$$



$$(aba, acx, 2, 2) \rightarrow 2$$

$$|+|$$

$$(aba, qca, 1, 1) \rightarrow 1$$

$$(aba, aca, 0, 1) \rightarrow 1$$

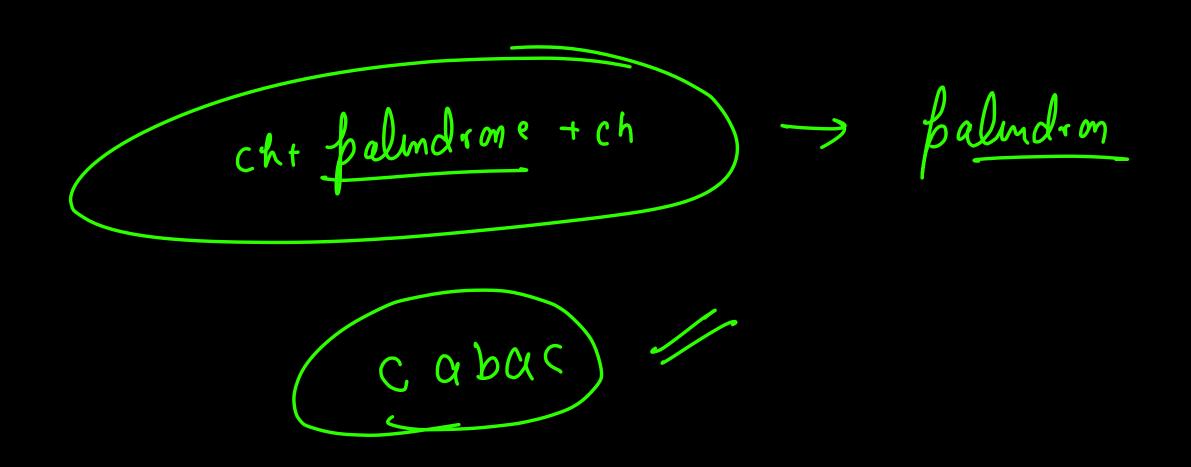
$$(aba, aca, -1, 1)$$

$$(aba, aca, -1, -1)$$

$$(aba, aca, -1, -1) = 0$$

$$\begin{cases}
S_{1}, S_{2}, i_{1} \\
S_{2}, S_{1}, i_{1} \\
S_{2}, S_{1}, i_{1} \\
S_{3}, S_{1}, i_{1} \\
S_{4}, i_{1} \\
S_{5}, i_{1} \\
S_{6}, i_{1} \\
S_{7}, i_{1} \\
S_{$$

abbcb, bcbba 669 (a c b d c da), (a d c d b c a) ac bcg cbdcd a/c b d c d/a



$$f(s_{1,i,1}) = \begin{cases} g + f(s_{1,i+1,d-1}) & \text{if } s_{1i=2}s_{1i} \\ s_{1}s_{1,i+1,d-1} \end{cases}$$

$$s_{1}s_{1,i+1,d-1} = s_{1i}s_{1i+1,d-1} + s_{1i+1,d-1} + s_{1i+1,d-$$

$$(bccab, 0, y) \rightarrow y$$

$$(bccab, 1, 3) \rightarrow 2$$

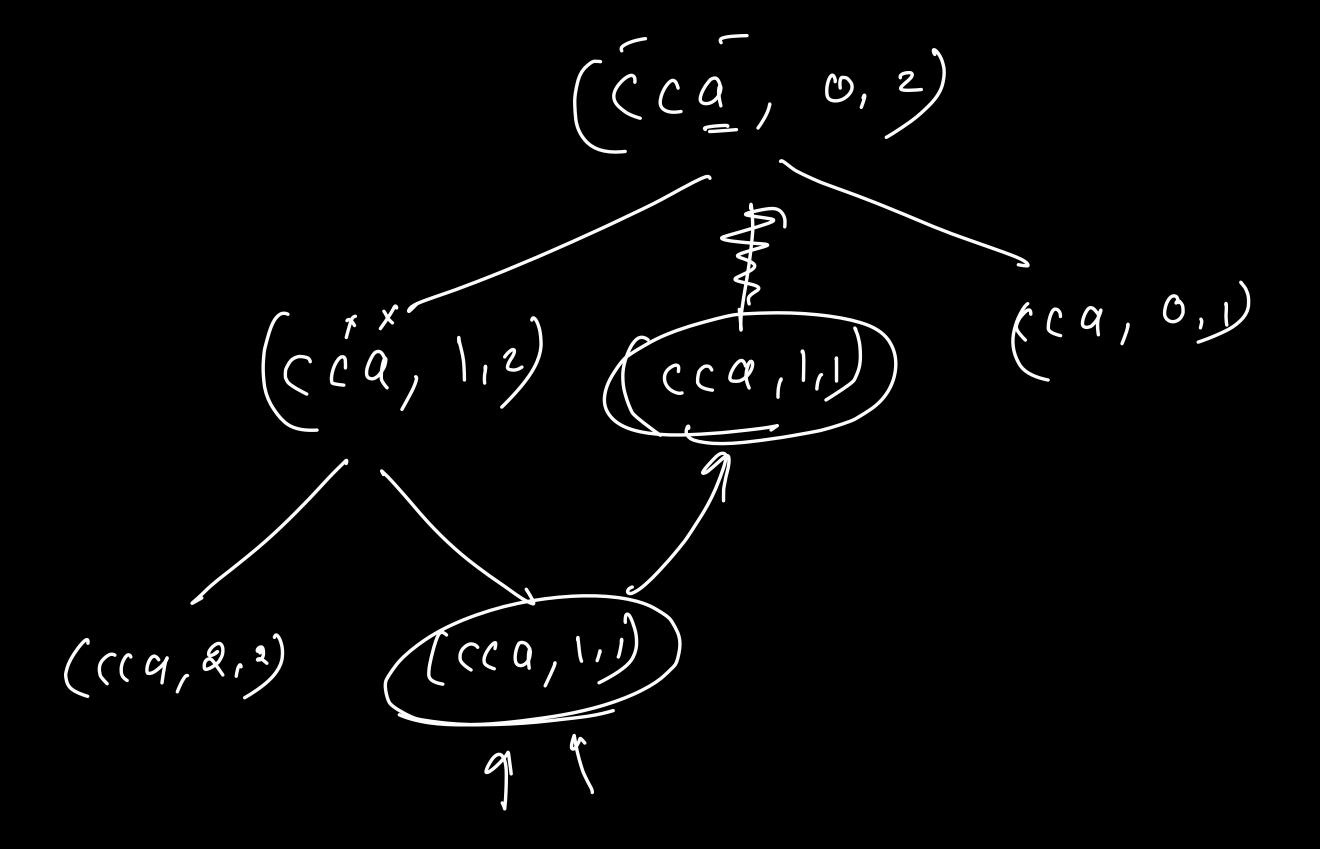
$$(bccab, 1, 3) \rightarrow 2$$

$$(bccab, 1, 2) \rightarrow 2$$

$$(bccab, 1, 2) \rightarrow 2$$

$$(bccab, 1, 2) \rightarrow 2$$

$$(bccab, 2) \rightarrow 2$$



Livolne if bogst - self a txn is going on if you bought already

JOIN THE DARKSIDE

N

f(i+1,00, K) [ i, on, K -prices [:] + mar profit from f(it) muy, K ire day to (n-1) # dog well K 7x1 + poices [i] + Ono if a trn is f(i+1, False, K-1) going on or not O, false 18)

ل مس

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