Byy and Sell Stock II

ex prices = [7, 1, 5, 3, 6, 4]

-> Why Recursion ?

-> Let's analyses tu question

9 SS 4 ME Stort from reve

when I starting of (from idx = 0) I can but or skip it and but at idx = 1 and sell at idx = 2 or skip idx = 2 and sell at idx = 3 or the ign are man-

A led lot of ways.

Best Answer

How to write decurrance

DExpress everything in denms of index.

f(idx, byy)

on any iddex I have to know wether I have baught previously or not. So by variable tells as that on the particulum iddex can I by or not

2) Explore all possibilities on that idp.

3 Take tu maximum all profits made.

Base case of f(0,1) $0 \in Buy \to 1$ you can by Recommunice | Sell it | Sell it | Starting on oth day with | f(idx,byy) = by + what max profit you can give me? |

if <math>(idx = 1) give me? | 7111513161y

11 but=2 that mega you can byy the stock

if (byy)

profit = man prices [idx] + f(idx+1, o) toke

6 + f(idx+1, 1) (grant
take

else 11 sent the stock bez you previously bought a stock

1 profit = map / prices Eidx) + f (idx+1, 1) tosell

0 + f (idx+1, 0) = (not

fell)

return motific

at the new say their might a possibility thent you buy a stock and not sell it.

Memoization

$$idx \rightarrow 0 + 0 N$$

$$byy \rightarrow 0 / 1$$

$$dr[N][2];$$

Tabalatich

- () Base case
- (5) changing pareinters);
- 3 cory Au recurance.
- DB9se case idx == n return o; dP[N+1][2]and dP[N][0] = dP[N][1] = 0