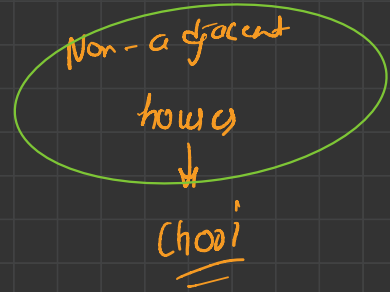
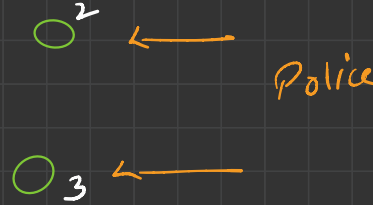



Dynamic

Programming



Maximum Money \rightarrow non-adjacent house \rightarrow max sum of Non adj element + First - last

7 \swarrow 9
8

7 \swarrow { 9 }

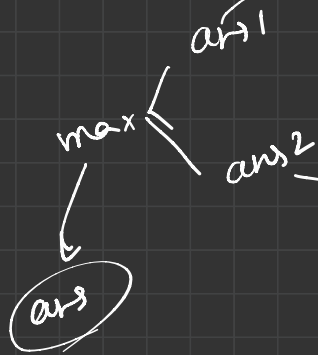
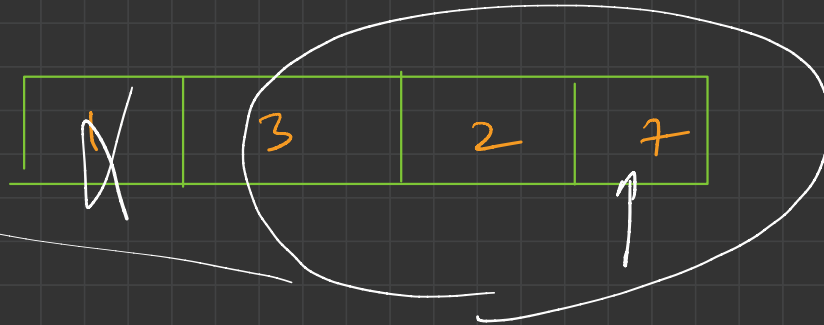
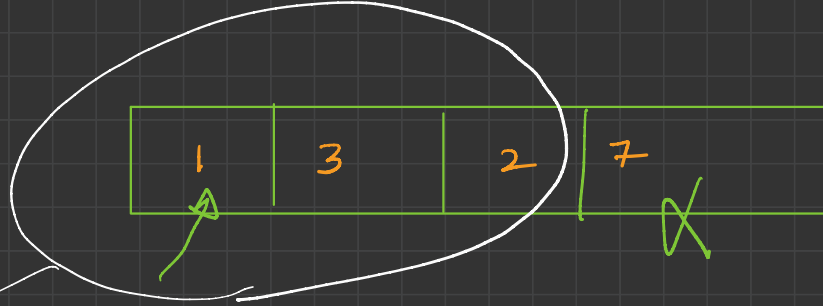
8 \searrow 8
{ 7 }
last

\nwarrow
cond

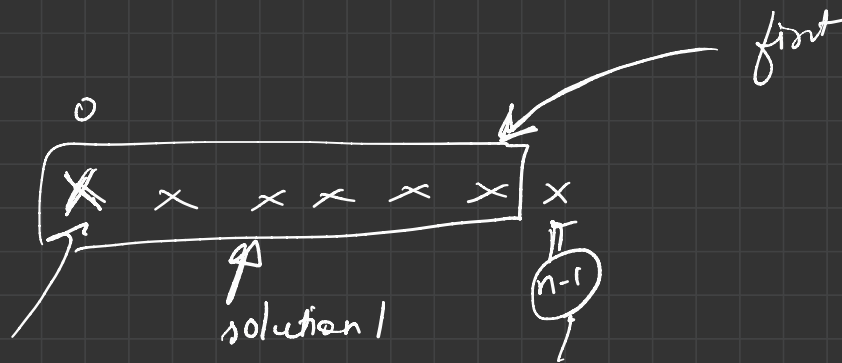
$$9 + 7 \rightarrow (16)$$

α
first / last
 \times

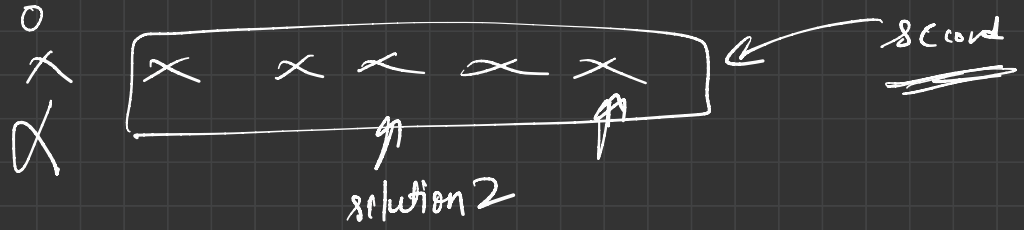
ans \rightarrow _ _ _ _ _



first element
include



last element
include



$$ans = \max(sol_1, sol_2)$$

$$T.C \rightarrow O(n)$$

$$S.C \rightarrow O(n)$$

