Arynamic Programy Squeoely 3 Dynamic - Proth Solve optimization In greedy, we follow a mothod to find optimed eng dijiskra, kruskel In dynamic, we find all possible solute. then select the right one La me use recurstre formule, (not recursion) we me l'Encheir . It uses principle of optimality We can solve with sequence of decision. In greedy, it's taken I Amin

Mohrin if neo flb (n) = if n= 1 (fib(n-2)+fib(n-1) ifnol Int fib (int n) if ( n = 1) return ? volume fib(n-2) + fib(n-1); 11235813 =) 9604 15 celss assure f (5) fib(5) fib(3) fib(4) fix(1) fib(2) fib(2) fib(3) fib(o) fib(1) fib(o) fib(1) fib(1) fiber

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fib 
$$(n-2)$$
 + fib  $(n-1)$   
celling 2 time (assume)  
 $n-2=n-1$ 

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

$$O(2n)$$
exponents this (too much)

if we see hee, its is been called of th(1) may this.

called of th(1) may this.

(by memorization)

we can reduce this. (by memorization)

let ( feke erroy).

f [-1/-1/-1/-1/-1]

0 1 2 3 4 5

Only 6 call not calls. So Ass O(n) polynomal to Inecu Some differe The always thee we use loop/ stereti. mil fib (min) If (n L=1) return f [0] = 0 F(1) = 1 For (m/129; 122n 1+4). F[i] = F[i-2] 1F[i-]

vetim F[n])

O- 1 Knopsell m=8 all solution V[i, w] = mex { V[i-1, w] V[4,17 = max {v[3,1], v[3,1-5]+9

V[4,5] = [3, 5], [3, 5-5+6]  $= \begin{bmatrix} 3,5 \end{bmatrix}, \begin{bmatrix} 3,b \end{bmatrix}$ Now we need squee of down X 1 X 2 X 3 X 9 what to module what not to making from lottle check men profit in less readd obj 4 R-62 2. cheek 2 in 3rd row. cheek of it engt in row 2 then don't includ it (2) - 2 = 0. if the not how add obj's X, K2 X3 19