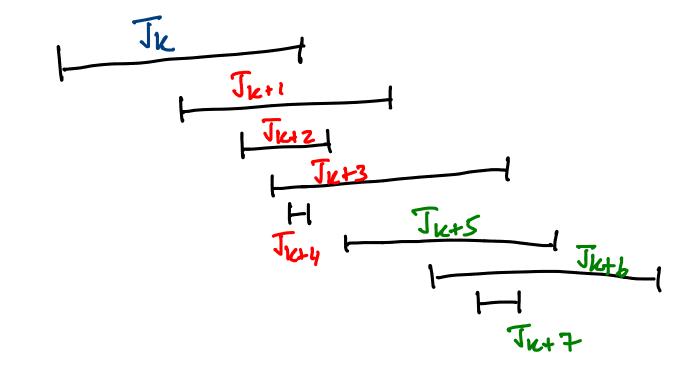
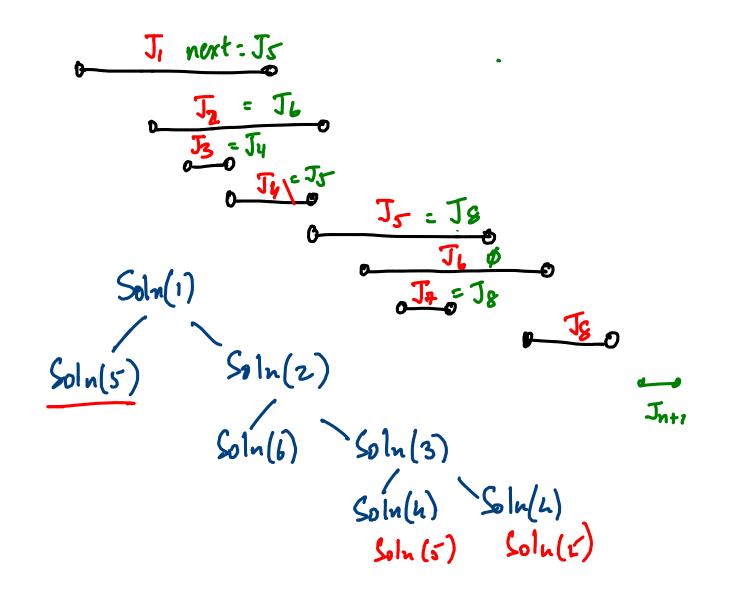
Arrange in sorted order by earliest finitian  

$$J_1$$
  
 $J_2$   
 $J_3$   
 $J_4$   
 $J_1$  conflucts with?  $J_2, J_4$   
Instead sort by start time  
 $J_1' = J_1$   
 $J_2' = J_4$   
 $J_3' = J_20$   
 $J_4' = J_3$ 





Dynamie Programming Inductive soln to the given problem Subpollem dependencées form a DAG Solve subpubliens respecting DAG stimeture

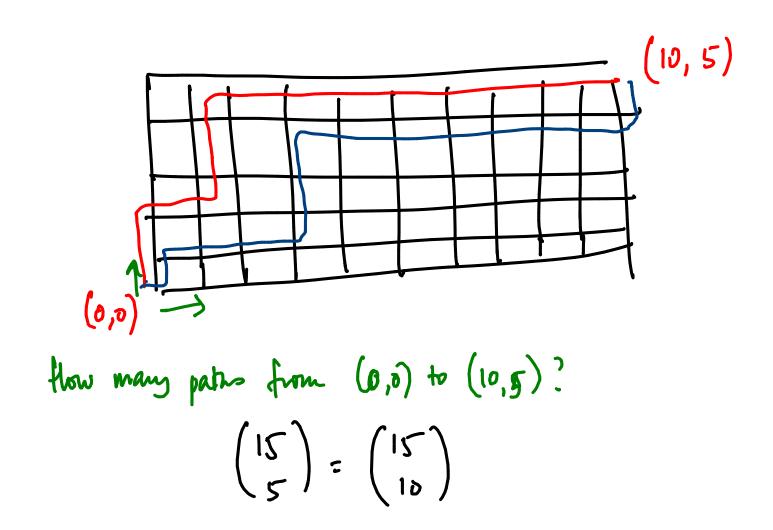
Alternative strakegy Inductive soln -> recursive implementation Tabulate all recursive calls "remember" Memoization "Memo table"

Canonial example:  

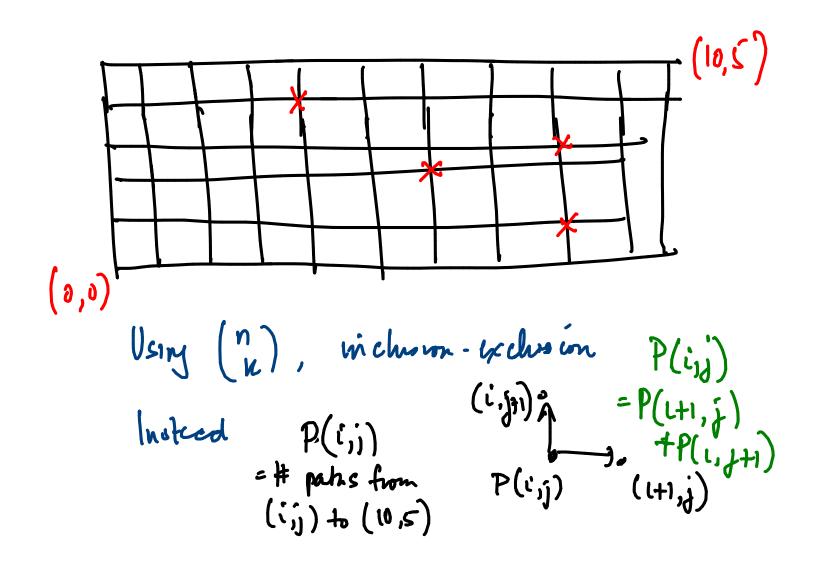
$$f_{1b}(n) = f_{1b}(n-1) + f_{1b}(n-2)$$
  
 $f_{1b}(0) = 0$   
 $f_{1b}(1) = 1$   
 $0, 1, 1, 2, 3, 5, 5, 13, ...$ 

def mennofil 
$$(n, table)$$
:  
if  $(table[n] >= 0)$ :  
return  $(table[n])$   
if  $(n==0)$ :  
table  $[o] = 0$   
return  $(o)$   
if  $(n==1)$ :  
table  $[i] = 1$   
return  $(val)$   
return  $(val)$ 





## Blocked intersectors



Boundary underkans the 
$$(0,0)$$
 to  $(m,n)$   
 $P((m,n) = 1$   
 $P(i,j) = 0$  if  $(i,j)$  is blocked  
 $P(i,n) = P(i+1,n)$   $0 \le i < m$   
 $P(m,j) = P(m,j+1)$   $0 \le j < m$   
 $P(i,j) = P(i+i,j) + P(i,j+1)$ 

