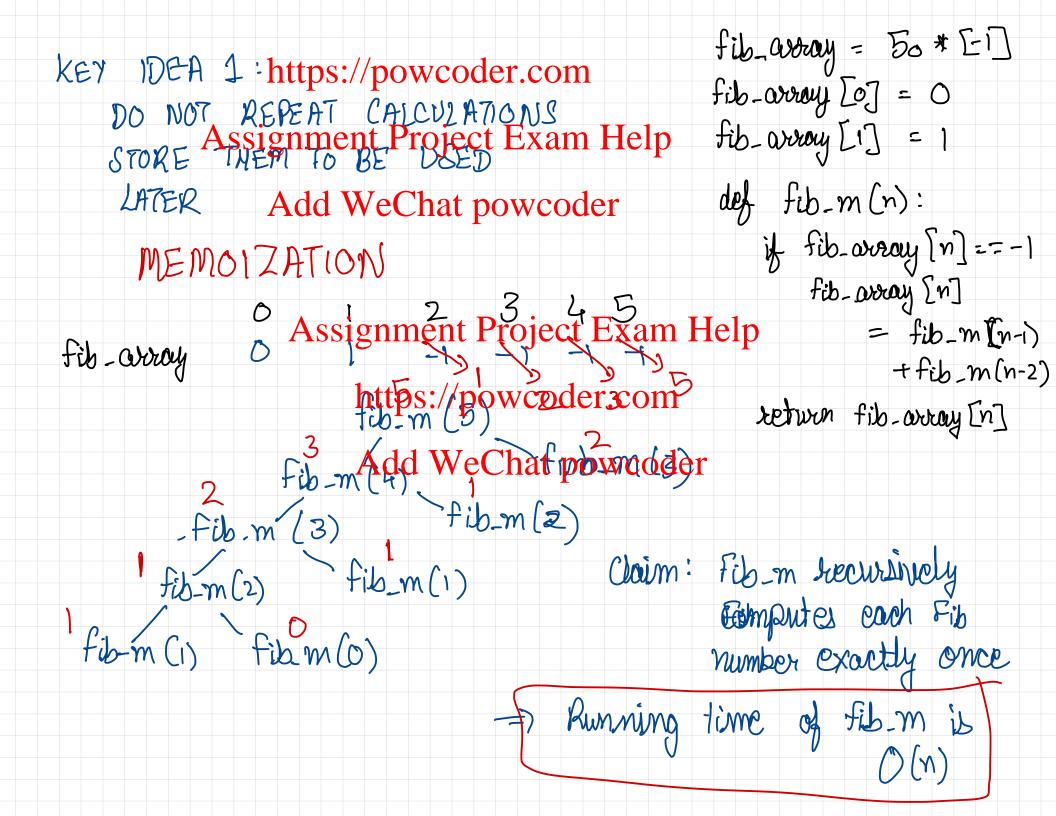


```
DYNAMIC PROGRAMMING https://powcoder.com
                                                          Fib_4(n):
                                                          if n ==0:
   FIBONACCI NUMBERS
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                                                             RETURN O
                                                          if n == 1
     Fib(0)=0 Fib(1)=1

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Fib(n-1) + Fib(n-2)
                                                              RETURN 1
                                                         RETURN (Fib. 12(n-1)
+ Fib. 12(n-2))
            Fib 14 Assignment Project Exam Help INDUCT
                   Fib-4(5)
                                                            INDUCTION
     Fib_r (3) Fib_r(2) sib-r(2) Claim: Time taken
ELB-r(2) ELB-r(1) FIB-r(1) Ve Chat powcoder is > Fib (n)

Fib-r(1) Fib-r(0) 1 O Fib.r(1) ELB-r(0) Pf: Leaves are
                                                     just 0 or [
                                               Claim: Fib (n) > 2<sup>n/2</sup>-1
                                                PF: Induction
                                       TIME TAKEN is 52 (2"/2)
```



KEY IDEA 2: https://powcoder.com YOU DON'T NEED TO RECURSE

CAN Assignment Project Exam Help fib-way [0] = 0 BOTTOM- UAdd WeChat powcoder

def fib_nr(n): fib-array = (n+i) * [-i] fib-overay [1] = 1 for i in range (2: (n+i)): fib-wray[i]

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= fib_averay [i-i] + fib averay [i-2] RECURSION - REPEATED COMPOTATION Soder.com Leturn Fib away [n]

- MEMOIZATION Add WeChat powcoder Time O(n)

BOTTOM- UP

DYNAMIC PROGRAMMING

SMART RECURSION DONE BOTTOM-UP

EVEN FASTERhttps://powcoder.com

ONLY NEED TO STORE

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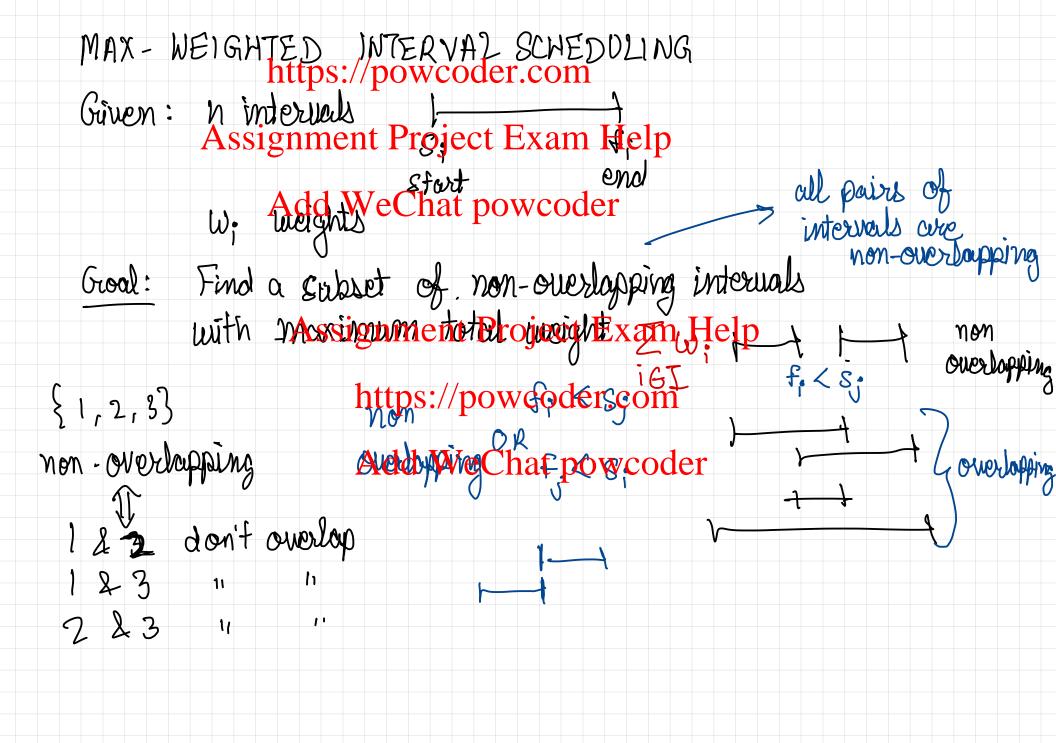
Fib (n-1) & Fib (n-2)

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Question: Is https://powcoder.com Assignment Deloject Exam Help Givendantify all intervals that don't ownlop with j 2
Assignment Project Exam Helps; John: Sort the interlials by Finish time

Assume: $f_i \leq f_i^2 dd$ We that possifinder Let p[j] be the largest index i of an interval that doesn't overlap with j $f_i < s_j$ j does not overlap with {1,2,..., p[j]} j overlaps with EPGJ+1, ..., j-13

