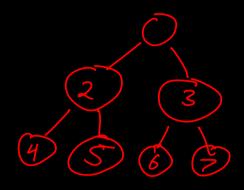
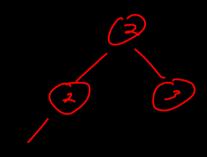


If Index mod other index add it to sum of that  $O(n^2)$ 





|    |   | <b>\</b> |    | Y |   |    |   |   |    |     |  |
|----|---|----------|----|---|---|----|---|---|----|-----|--|
| 15 | 3 | 50       | 17 | 2 | l | 20 | ) | 3 | 10 | 727 |  |
| 0  |   | 2        | 3  | Ч | 5 | 6  | 7 | 4 | 9  | 10  |  |

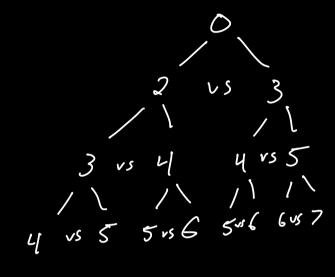
$$\begin{array}{c} 0,2 \\ x + (2,2) & (0,3) \\ \\ x + (4,2) & x + (2,3) \end{array}$$

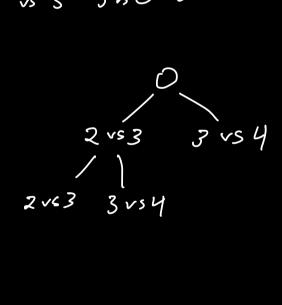
Subtract each iteration from
blocks[n+i] - blocks[n+(i+1)]

if negative [n-1] is bigger

if positive [n] is bigger

 $15 \quad 3 \quad 6 \quad 17 \quad 2 \quad 1 \quad 20$  6 - 17 = -11  $if \quad nes \quad 2 - abs(-11) = -8$ 





0 1 2 3 4 5 6 7 8 7 10

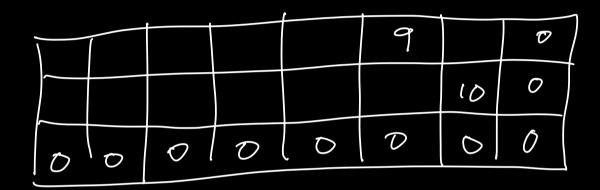
$$is (5+10) > (3+6+9+12)$$
 $is (5+15) > (2+4+6+8+10+12)$ 
 $is 7 > ($ 

## 012345678710

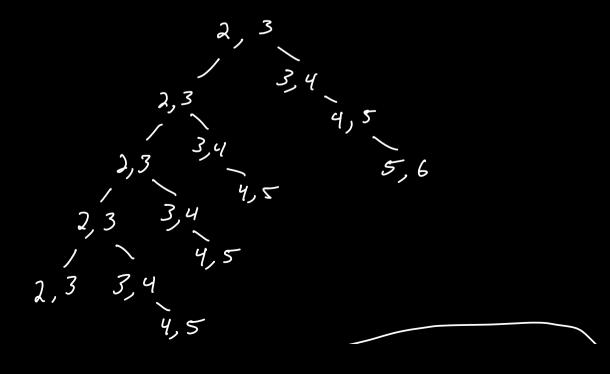
2: 4 6 8 10

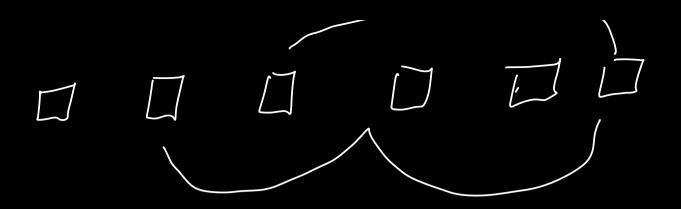
3: 3 6 9

5:



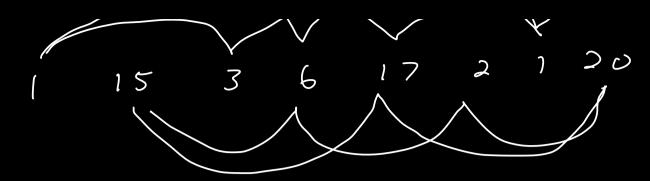
For length 10





6/17

Only need to worry about jumps of

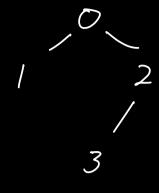


Eitzer take block and start jump or don't and move to next block

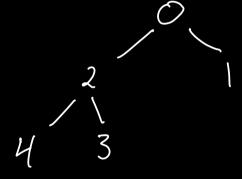
$$(1, 2)$$

$$1+(3,2) 1+(6,3) 0+(15, 2)$$

0:0+2 + 4+6 +8 - if 
$$i$$
 ?2  
1:0+3+6+9 - if  $i$  ?3  
2:1+3+5+7+9 - if  $(i-1)$  %2  
3:1+4+7 - if  $(i-1)$  %3







## 

Catalin number

aciwwxyz

$$C = \frac{1}{C}$$

so 
$$T(n) = \Theta(n^2)$$
  $C > lag_2 l$ 

W/ C being in only 2 initial conditions we either have 02 or 12 so neither effects runking cince they'm constants

This is an example of recusive applied by

$$T(0), T(1) = O(1)$$

C=0

C=0

C=0

C=0

C=0

D=1

105.1=0 0=0

O(n°logn) = O(logn)

T(0),  $T(1) = O(m^2)$  —7 constants that don't effect answer

else  $T(n) = T(N_2) + C$  but since Fecusion can run this name O(logn) times its no longer constant

$$\binom{n}{k} \binom{6}{6} = \binom{10}{4}$$