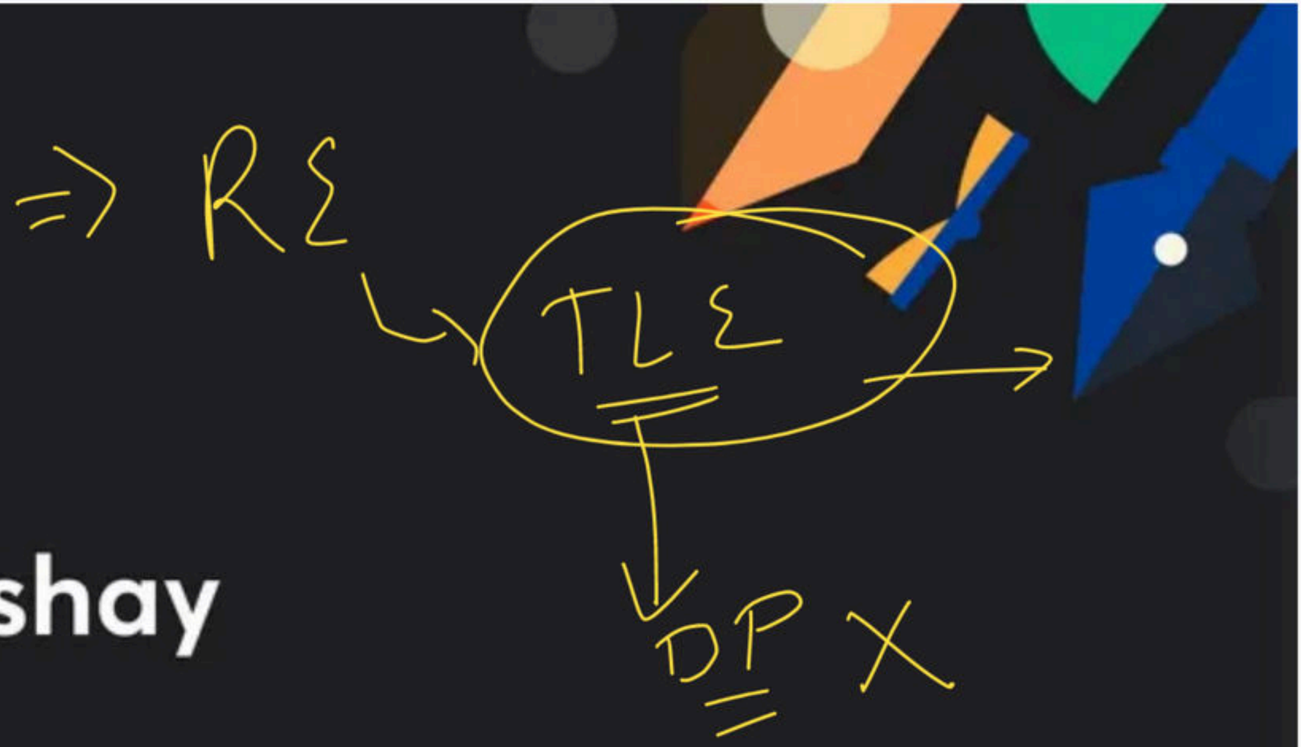


MEGA Class with Lakshay [Recursion]

Special class

Love Babbar • July 14, 2024

⇒ Bonus

↳  - Challenges RE

↳ DP → assignments

↳ I → RE → cdtlempt

① LC-416 : Partition Equal Subset Sum

⇒ 2 min To Think & Read

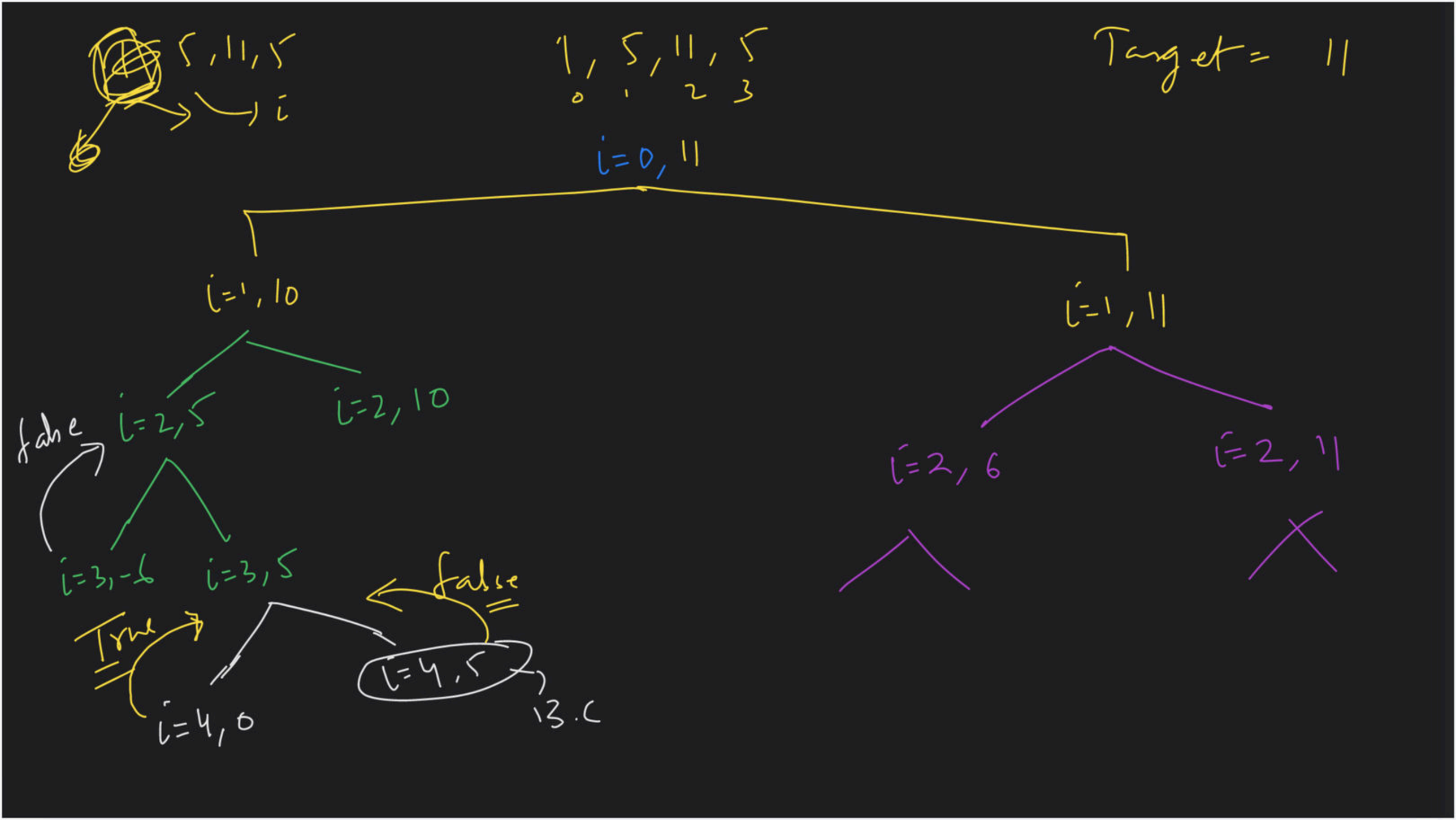
=> ① Sum the elements

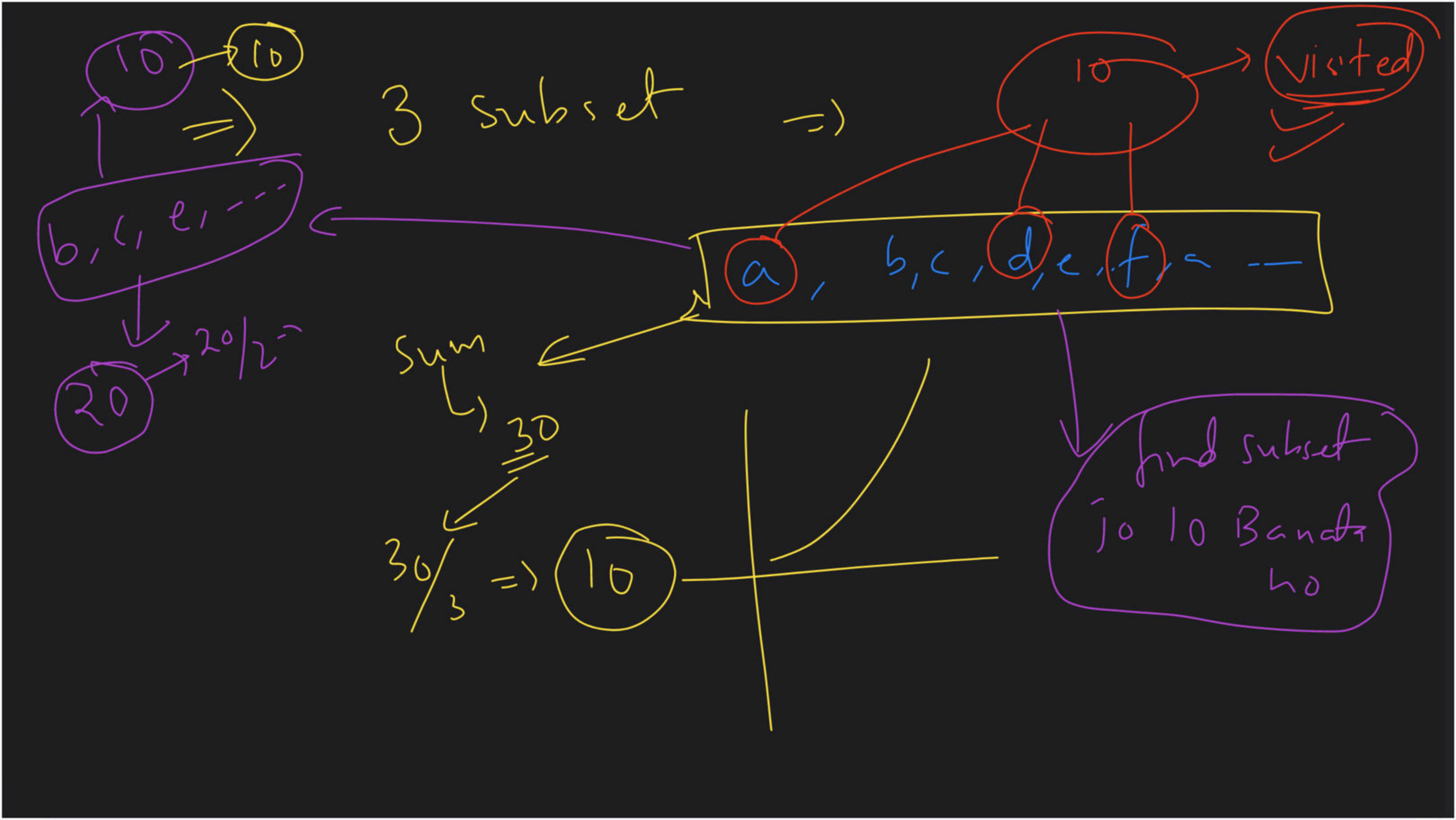
② if(sum % 2 ≠ 0)
Return false

=>

③ Target = Sum/2

④ Find a subset with
Subset sum = Sum/2


5, 11, 5
i
1, 5, 11, 5
0 1 2 3
Target = 11
i=0, 11
i=1, 10
i=1, 11
i=2, 5
i=2, 10
false
i=2, 6
i=2, 11
i=3, 6
i=3, 5
false
True
i=4, 5
i=4, 0
13.C

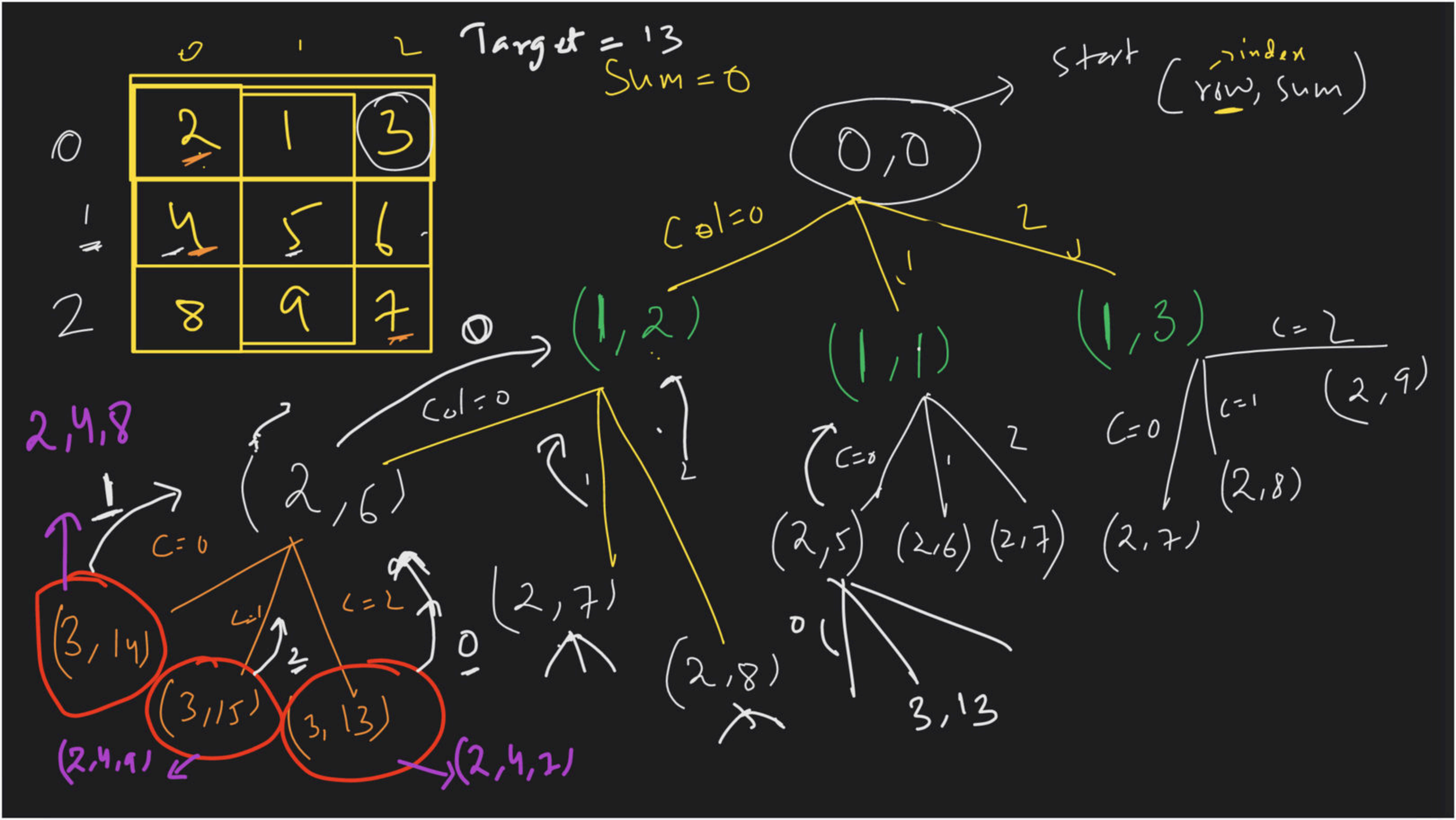

10
10
3 subset
=>
10
visited
b, c, e, ---
a, b, c, d, e, f, a ---
20
20/2
Sum
30
30/3 => 10
find subset
jo 10 Banata
ho

② LC = 1981 : Minimize the diff. b/w Target & chosen Element

2 min → To Read

3 min → Think

2:50 PM

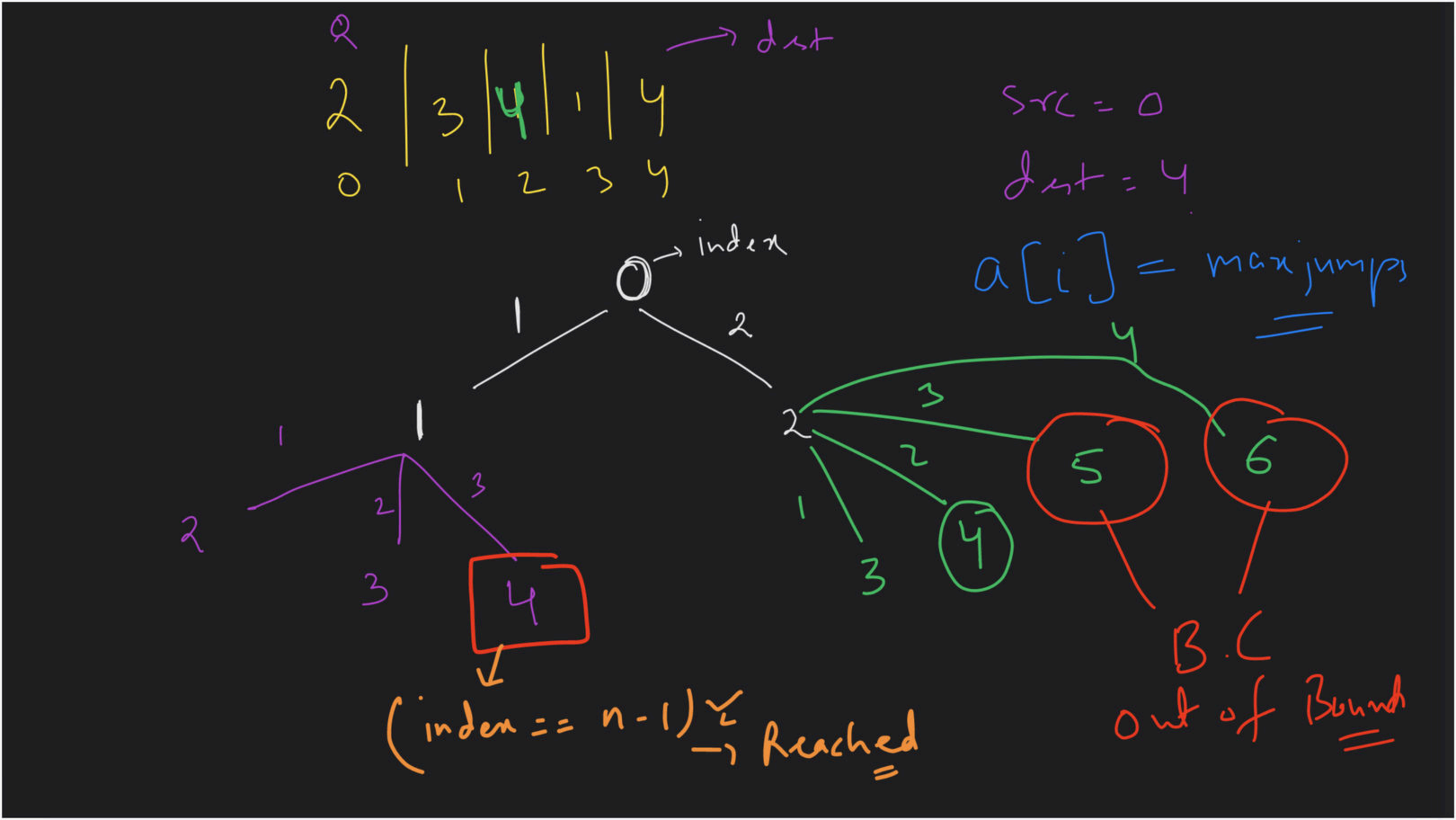

Target = 13
Sum = 0
0 1 2
0
1
2
2 1 3
4 5 6
8 9 7
Start
(index row, sum)
0,0
Col=0
1
2
(1,2)
(1,1)
(1,3)
0
Col=0
(2,6)
(2,7)
(2,8)
2,4,8
1
C=0
C=1
C=2
(3,14)
(3,15)
(3,13)
(2,4,9)
(2,4,2)
C=0
(2,5)
(2,6)
(2,7)
C=2
C=1
(2,9)
C=0
(2,8)
(2,7)
0
3,13

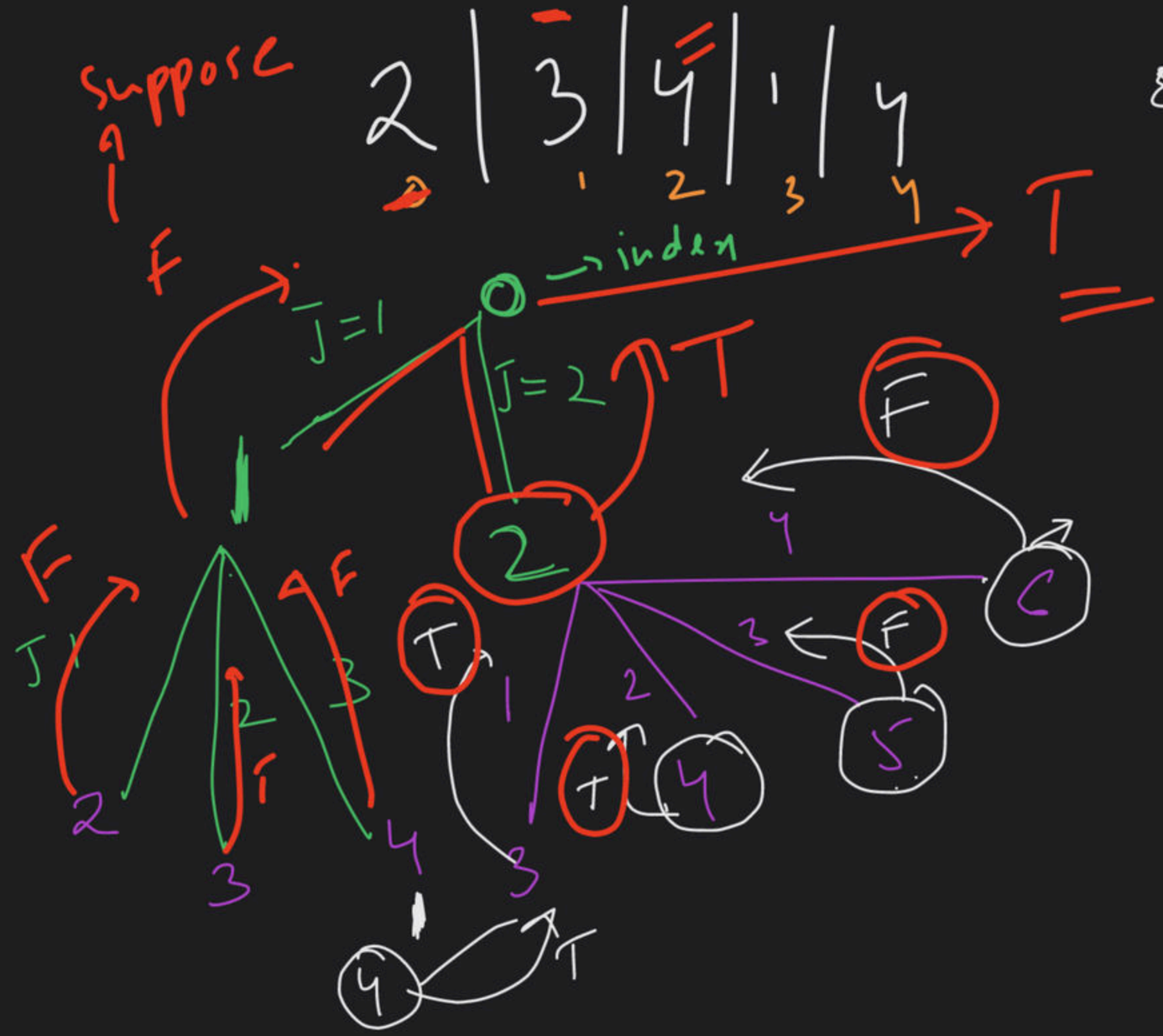
③ LC 55: Jump Game

① Read

② Think

Back By → 3:35 PM


a
2 | 3 | 4 | 1 | 4
0 1 2 3 4
dst
src = 0
dst = 4
index
a[i] = max jumps
(index == n-1) → Reached
B.C
out of Bound



N=5

Code

```
Solve(nums, i)
{
  if (i==n-1)=True.
  if(i>=N) false.

  ReAns = F;

  for( jump=1 ≤ nums[i]
  ReAns = Ans || solve(nums, i+jump)

  3 ... ReAns
```

4 LC = 45 : Jump Game II

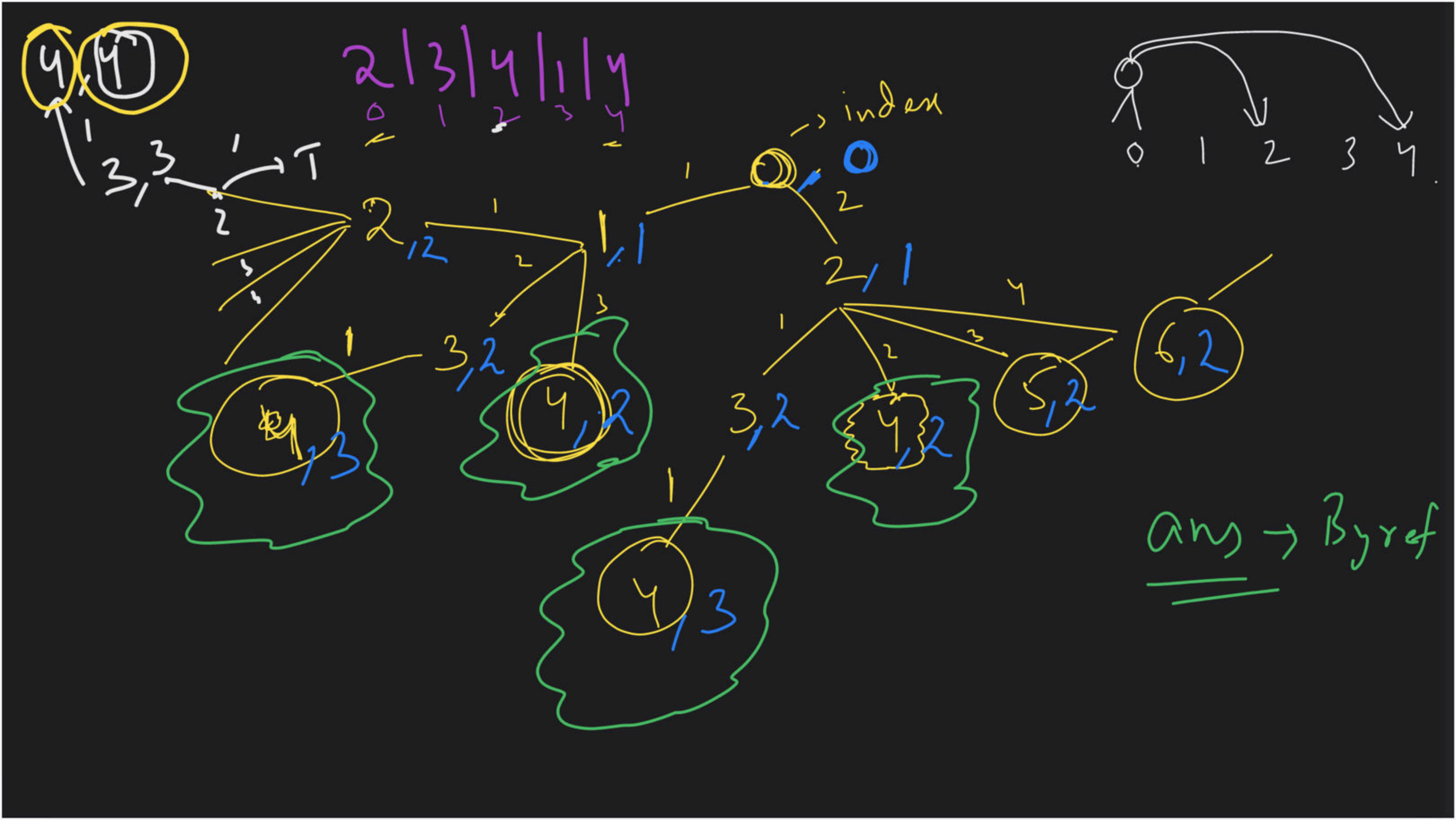
Jmin → Read

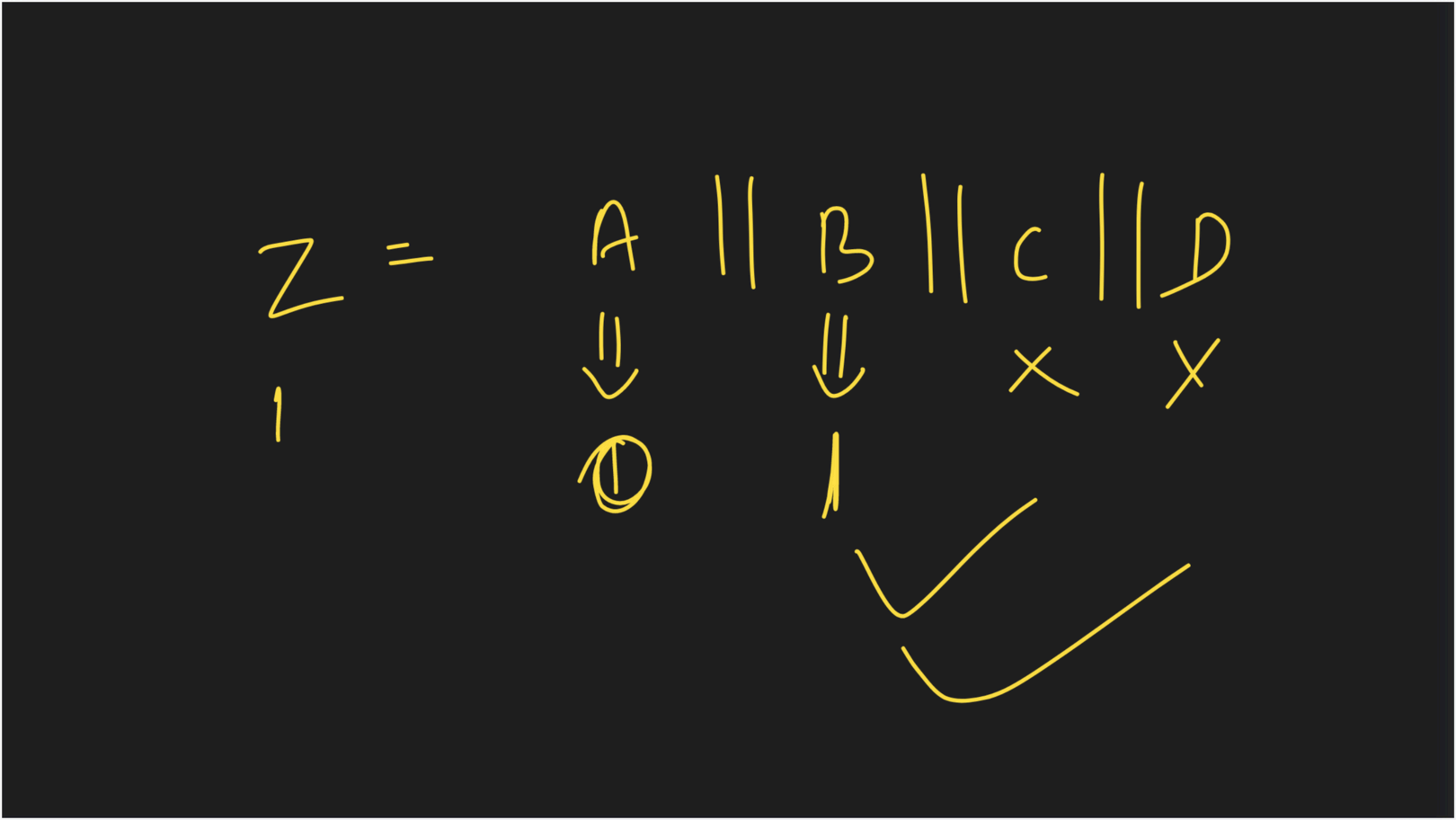
↓

Solve

F = F || T || T || F || F

Ans = T

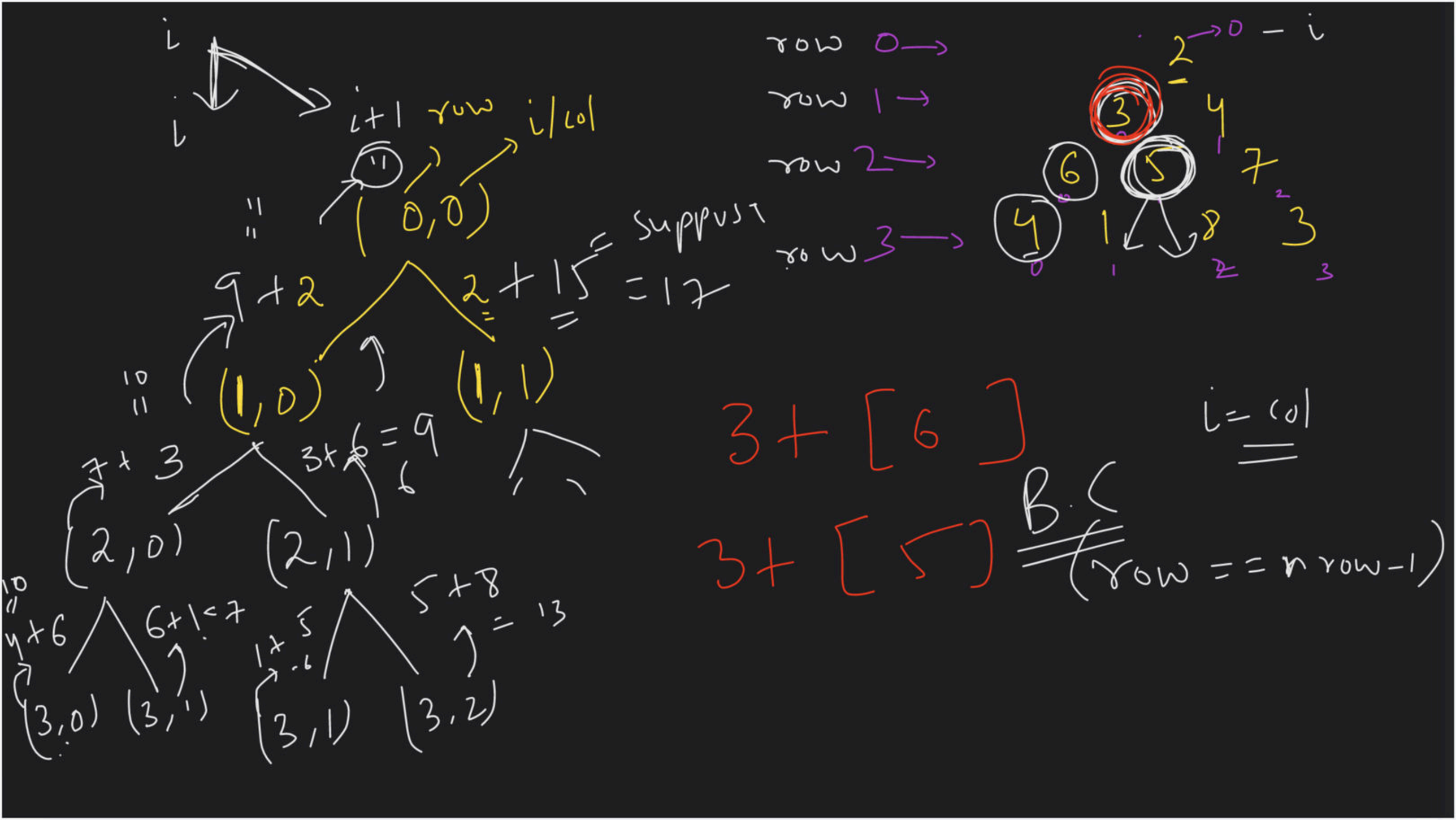

2 | 3 | 4 | 1 | 4
0 1 2 3 4
index
0 1 2 3 4
any → Byref


Z =
A || B || C || D
1
0
1
X
X

(5) LC: 120 TRIANGLE

5 min → Read & Think

04:30

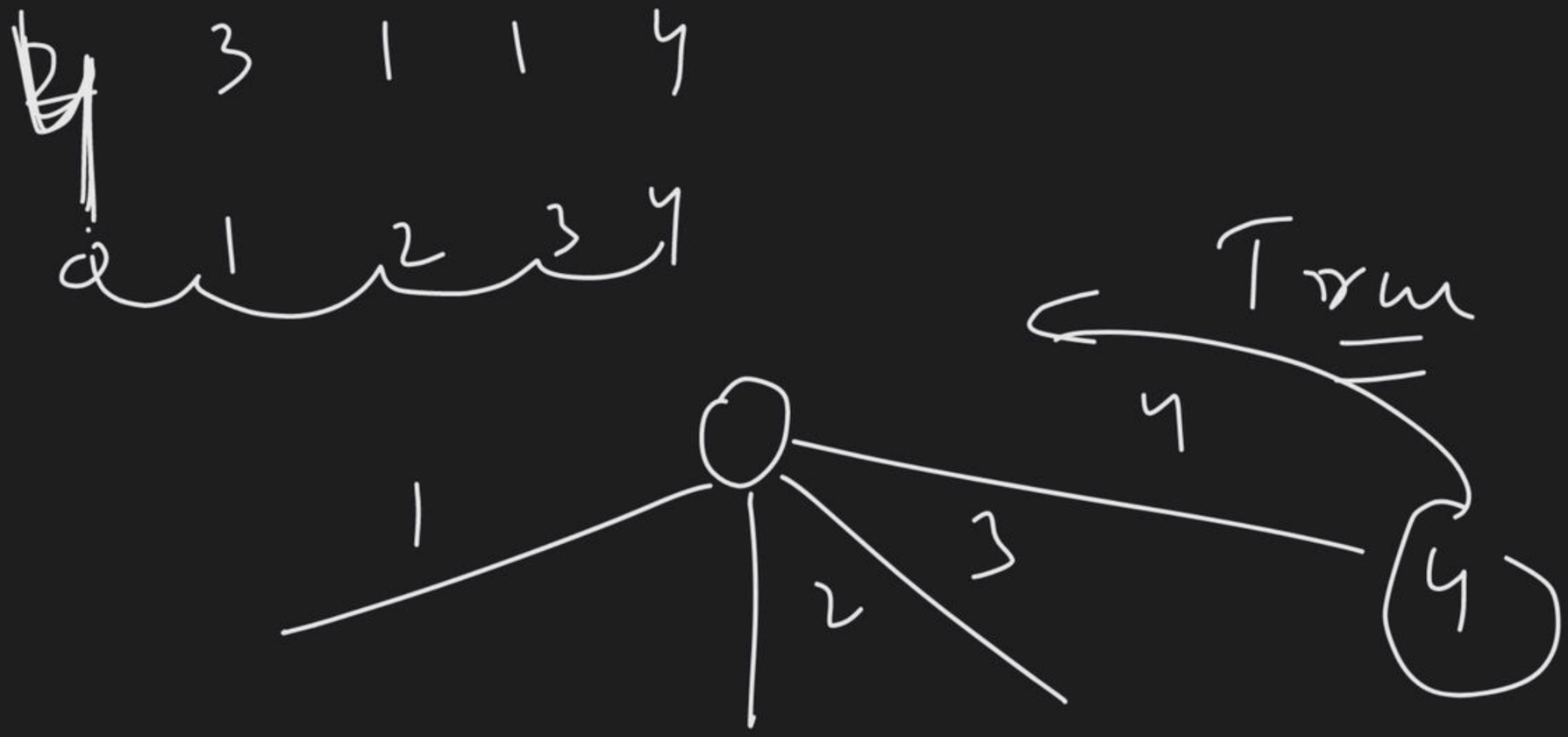

i
i
i+1 row
i/col
(0,0)
suppose
9+2
2+15
=17
(1,0)
(1,1)
7+3
3+6=9
(2,0)
(2,1)
4+6
6+1<7
1+5<6
5+8
=13
(3,0)
(3,1)
(3,2)
row 0→
row 1→
row 2→
row 3→
2→0 - i
3
4
6
5
7
4
1
8
3
0
1
2
3
3+[6]
3+[5]
B.C
(row == n row-1)
i = col

1 Case

A = Current value + RE(col, row+1)

B = Current value + RE(col+1, row+1)

Return (Min(A, B));


3 1 1 4
1 2 3 4
Turn
4
1
3
2
4

RE = Ice solve

↓ Take <= a[i]

for (jump = 1, <= ai[i]) Jumps

↓

R<=