BacKTracKing →

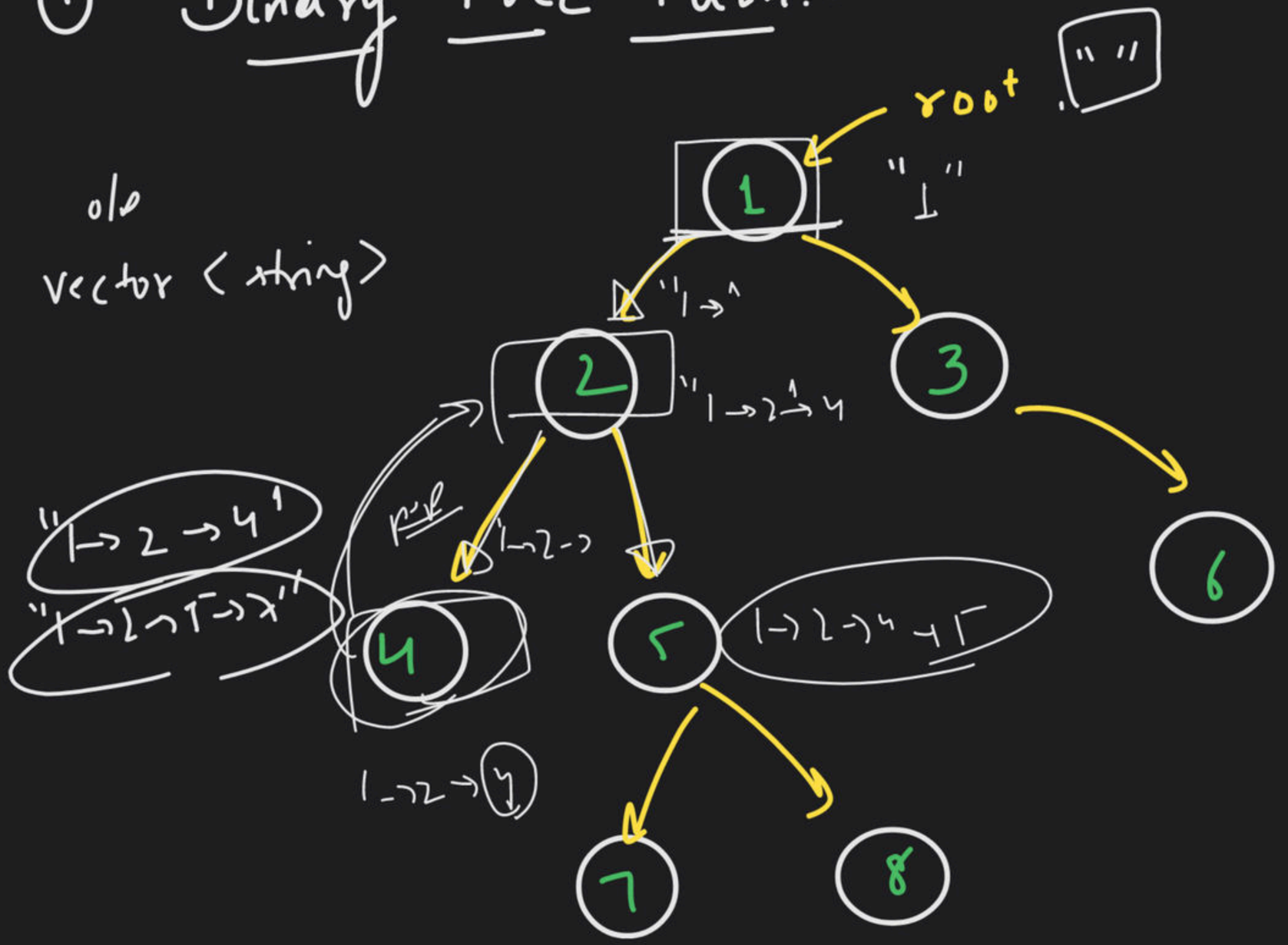
Doubt Session → Thursday

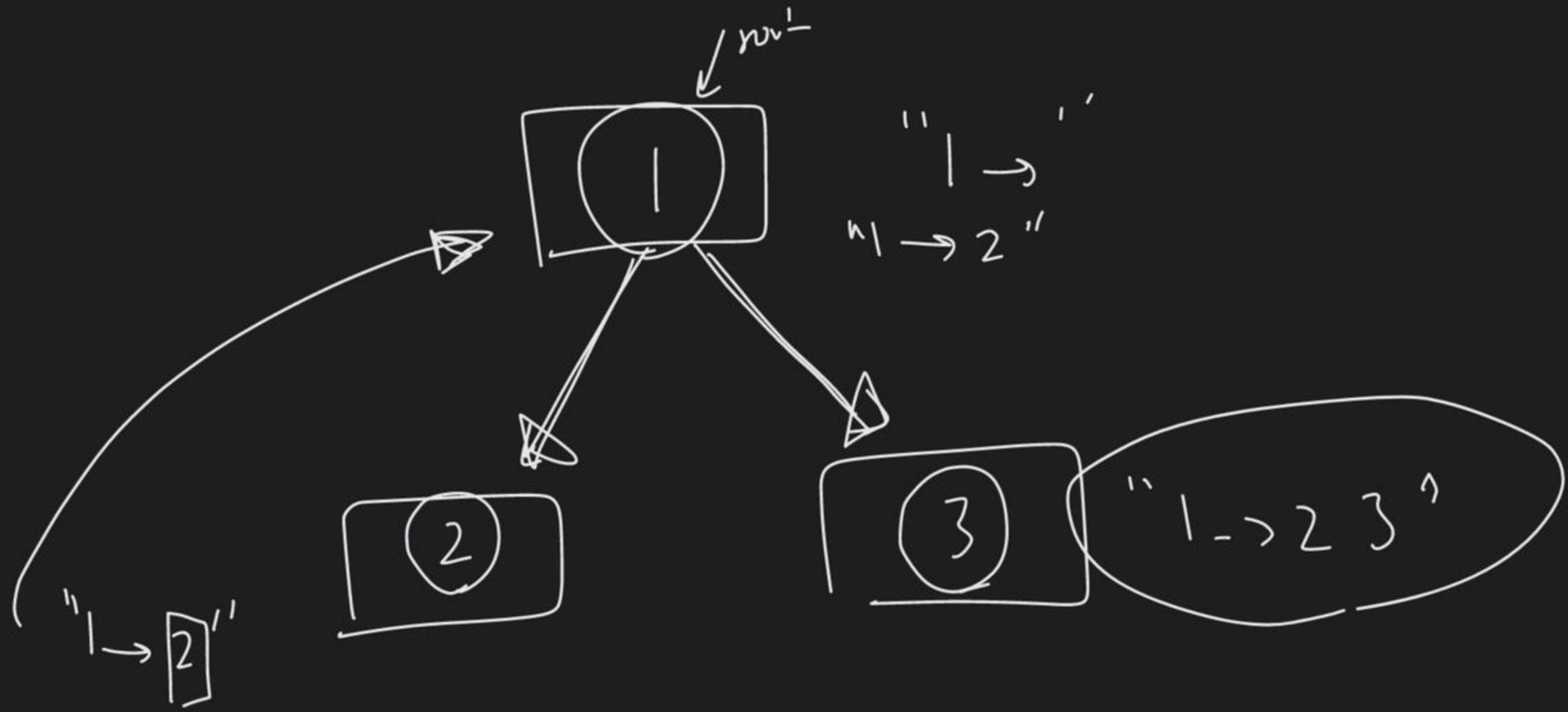
9-11 pm

① Binary Tree Path:-

o/p

vector < string >

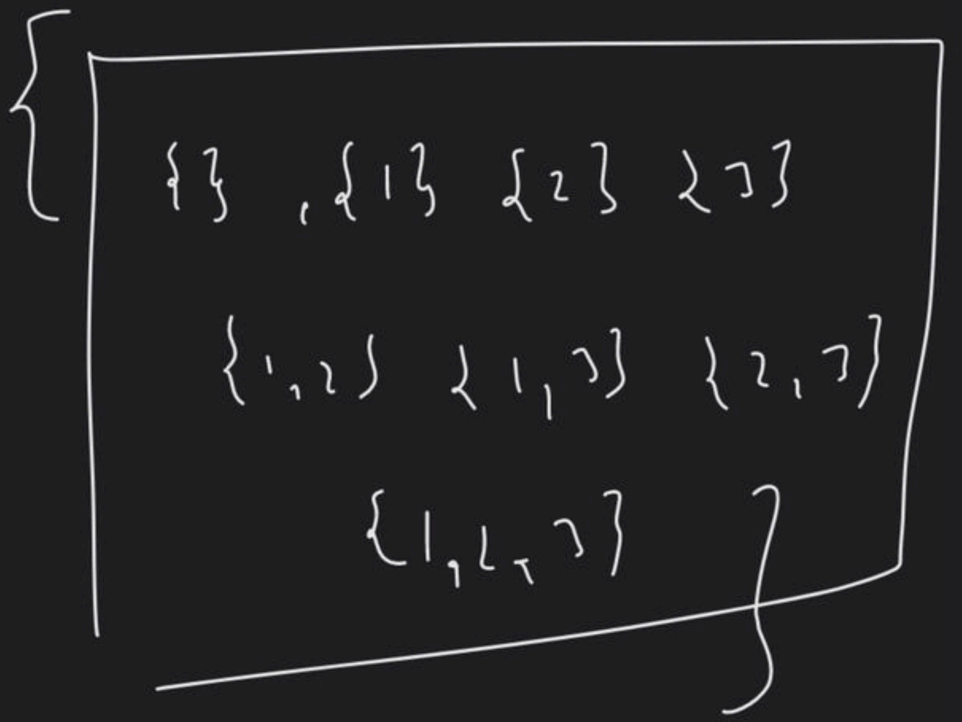



root
1
""
"1 →
"1 → 2"
2
3
"1 -> 2 3"
"1 → 2"

② Subsets:- i/p → arr[ ] → {1, 2, 3}

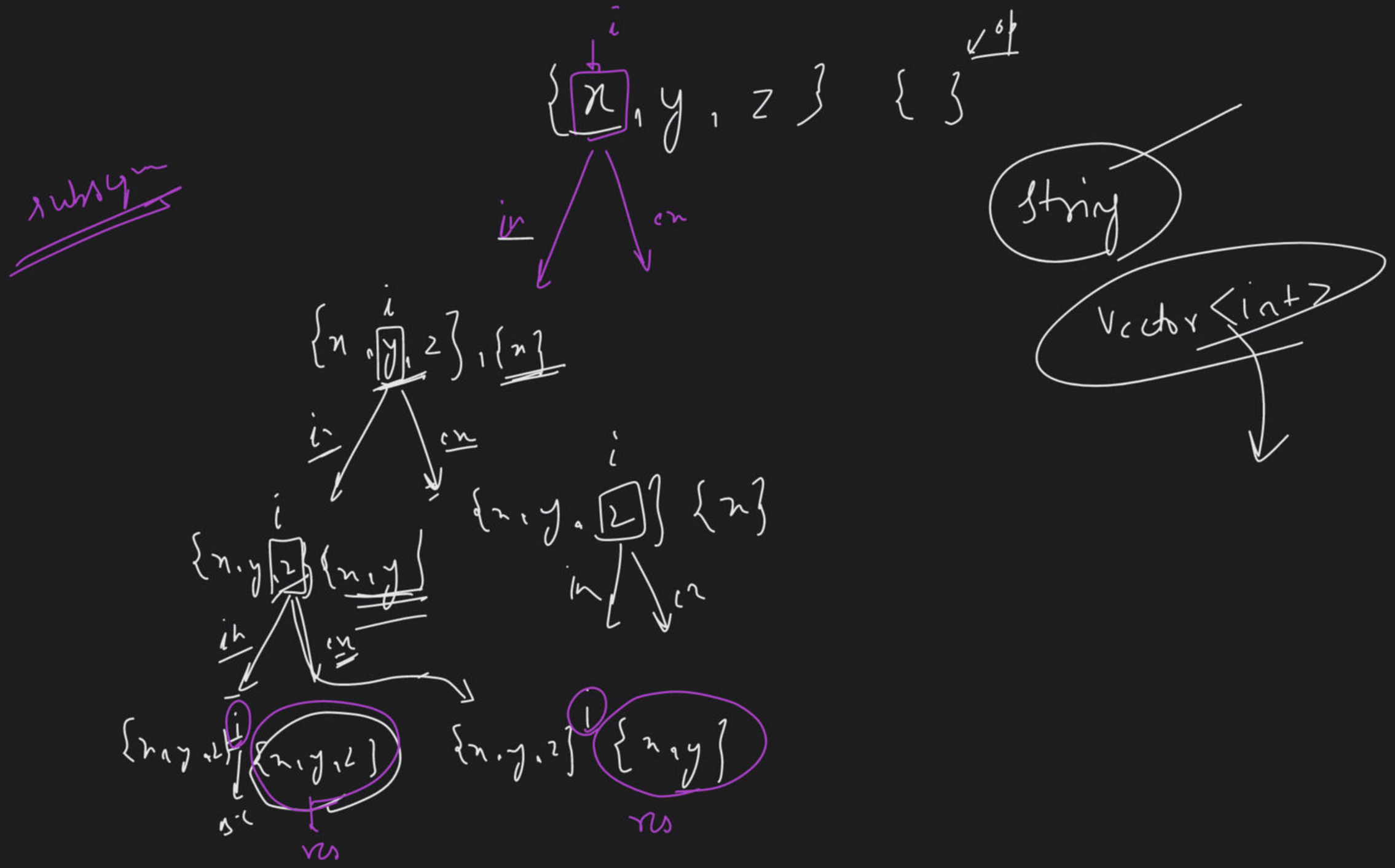
o/p → vector<vector<int>>

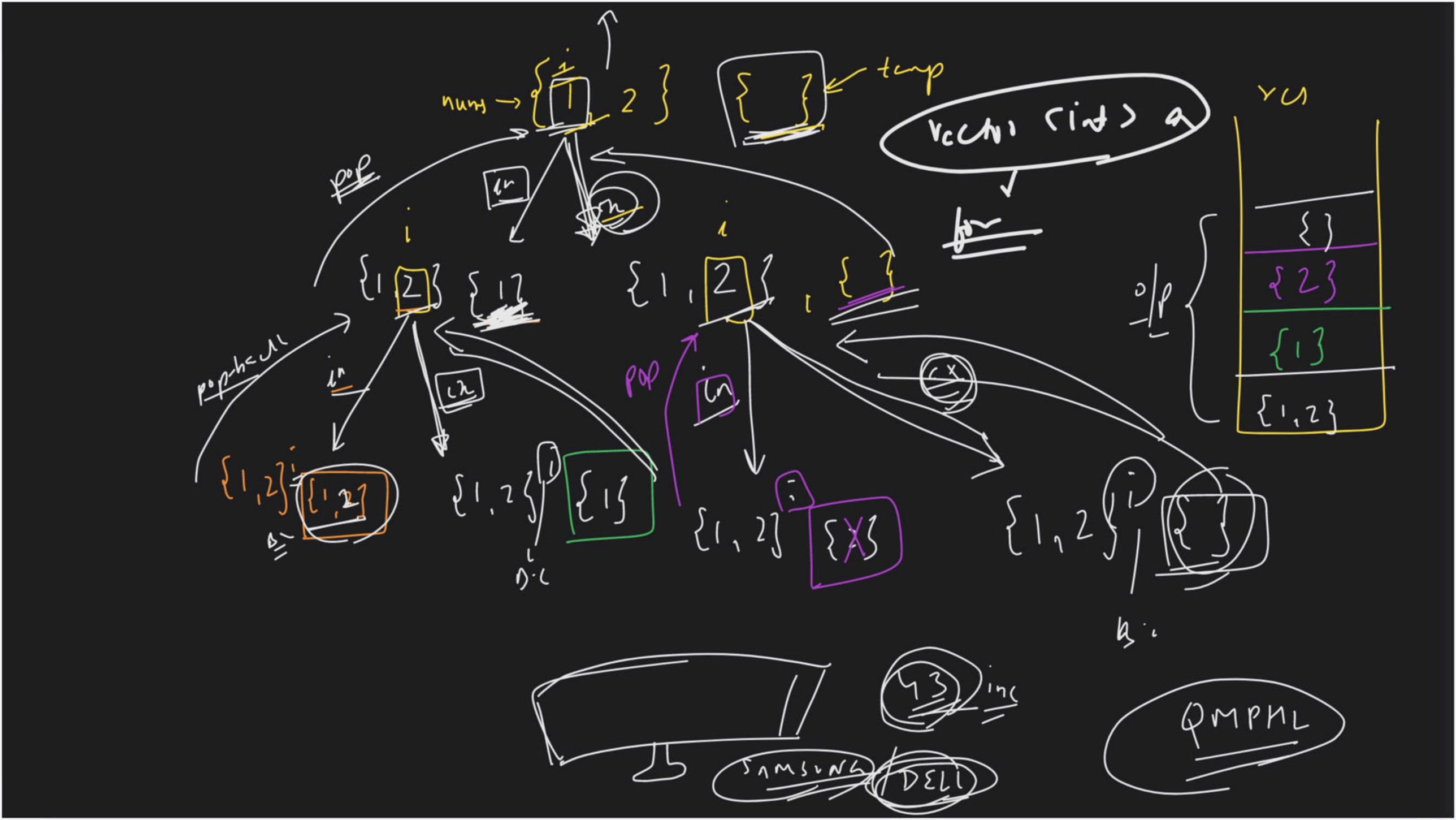
↳ subsets



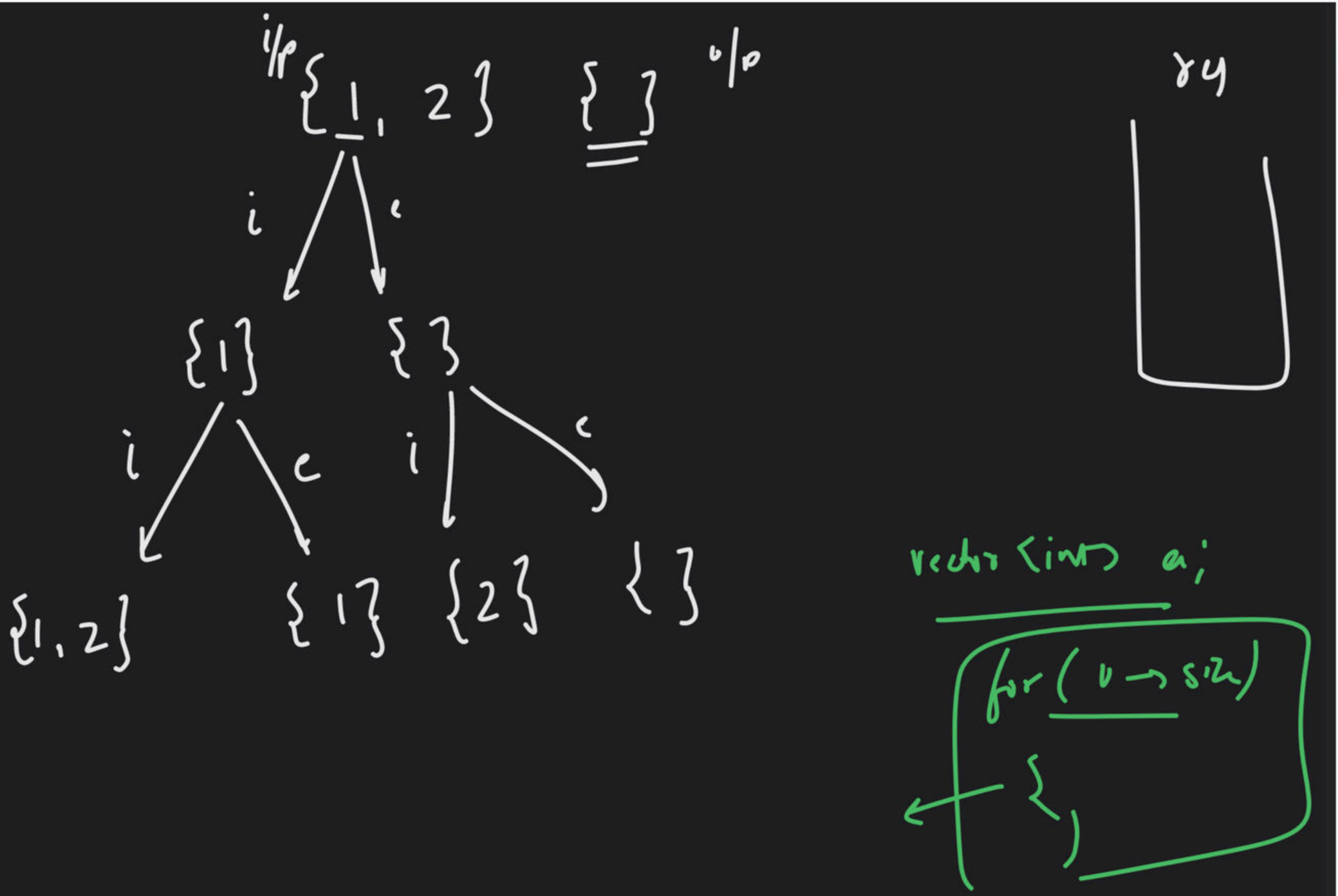
Richard Kardo

x	y	z	
✗	✗	✗	{ }
✓	✗	✗	{x}
✓	✓	✗	{x, y}
✓	✓	✓	{x, y, z}
✗	✓	✓	{y, z}

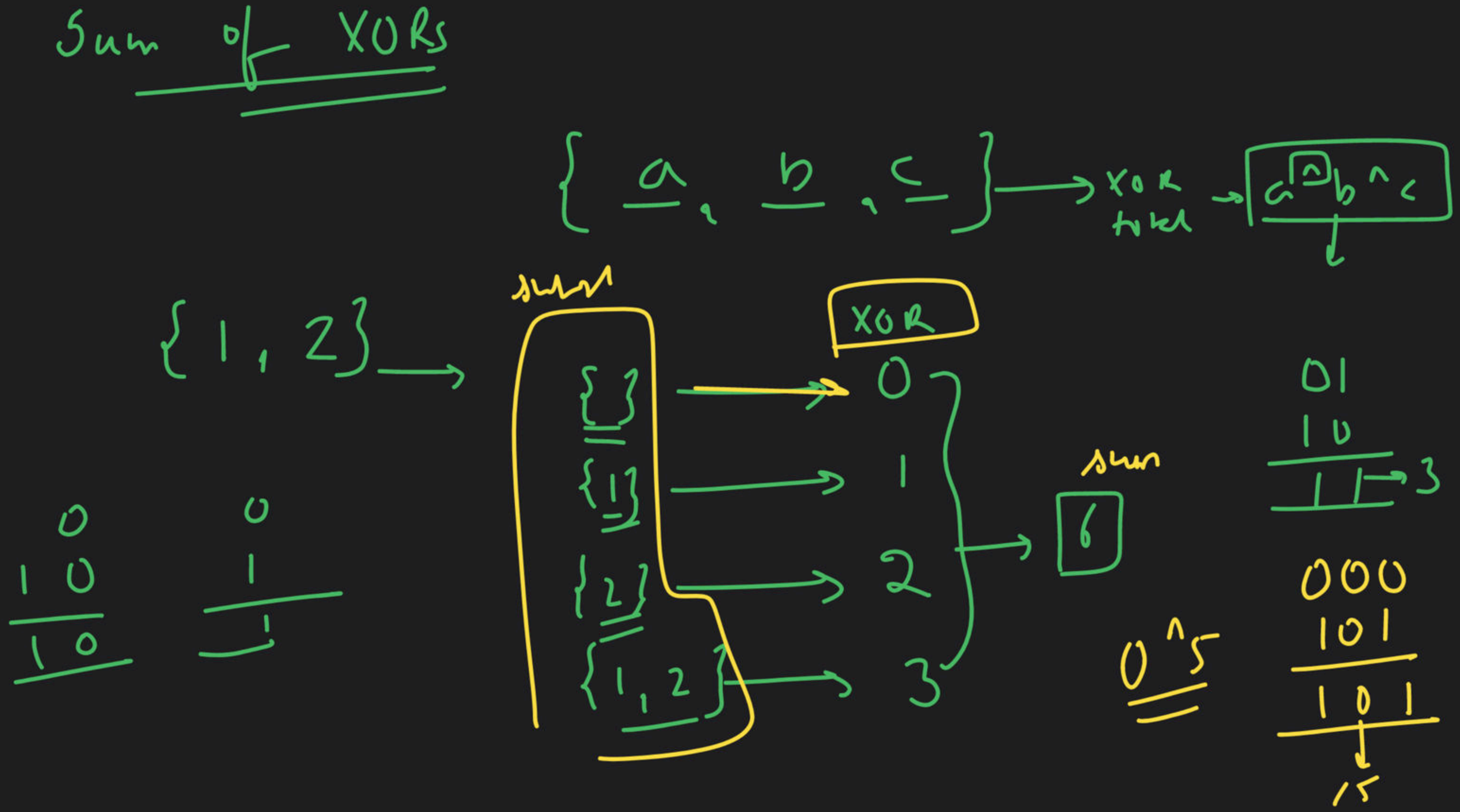

i
{x, y, z}
{}
ans
in
ex
String
Vector<int>
{x, y, z}
{x}
{x, y, z}
{x, y}
{x, y, z}
{x, y}
{x, y, z}
{x, y}
res
res


nums
temp
pop
in
out
pop-back
pop
in
out
o/p
{}
{2}
{1}
{1,2}
SAMSUNG
DELL
QMPHL

vector <int> temp ;


i/p
{1, 2}
{ }
o/p
i
e
{1}
{ }
i
e
i
e
{1, 2}
{1}
{2}
{ }
xy
vector<int> a;
for(i -> size)
{
}

Sum of XORs


{a, b, c} → XOR total → a^b^c
{1, 2} →
sum
XOR
{}
{1}
{2}
{1, 2}
0
1
2
3
sum
6
0 ^ 5
01
10
11 → 3
000
101
101
15
0
1
1
0
1 0
1 0
0
1
1

Decimal to Binary

1 → 0001

2 → 10

3 → 11

4 → 100

5 → 101

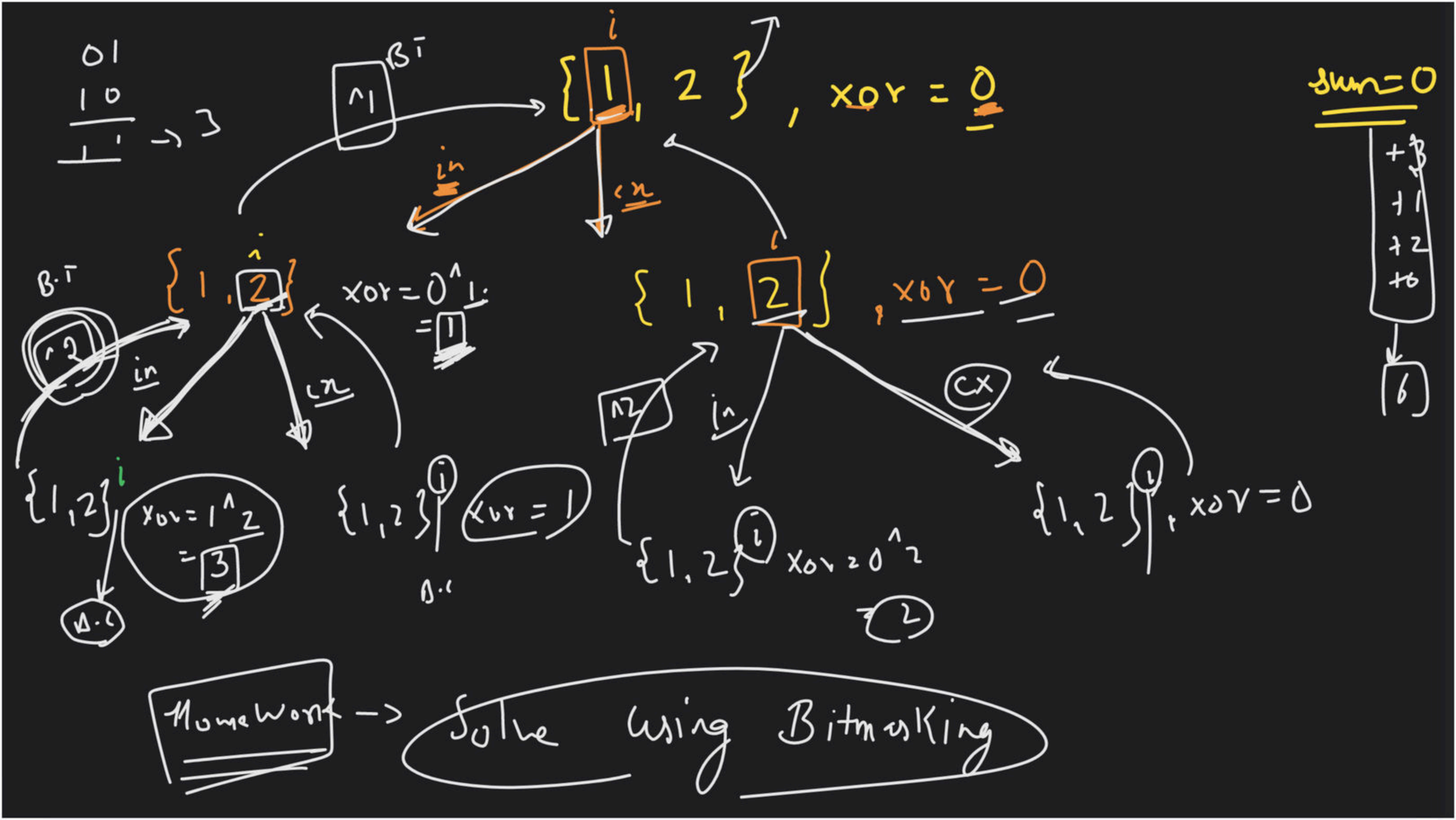
6 → 110

7 → 111

8 → 1000

9 → 1001

10 → 1010


01
10
-> 3
BT
^1
i
{ 1 , 2 }
, xor = 0
in
cx
sum = 0
+3
+1
+2
+6
6
B.T
^2
{ 1 , 2 }
xor = 0 ^ 1
= 1
{ 1 , 2 }
, xor = 0
{ 1 , 2 }
xor = 1 ^ 2
= 3
{ 1 , 2 }
xor = 1
{ 1 , 2 }
xor = 0 ^ 2
= 2
{ 1 , 2 }
, xor = 0
Home Work -> Solve using Bitmasking

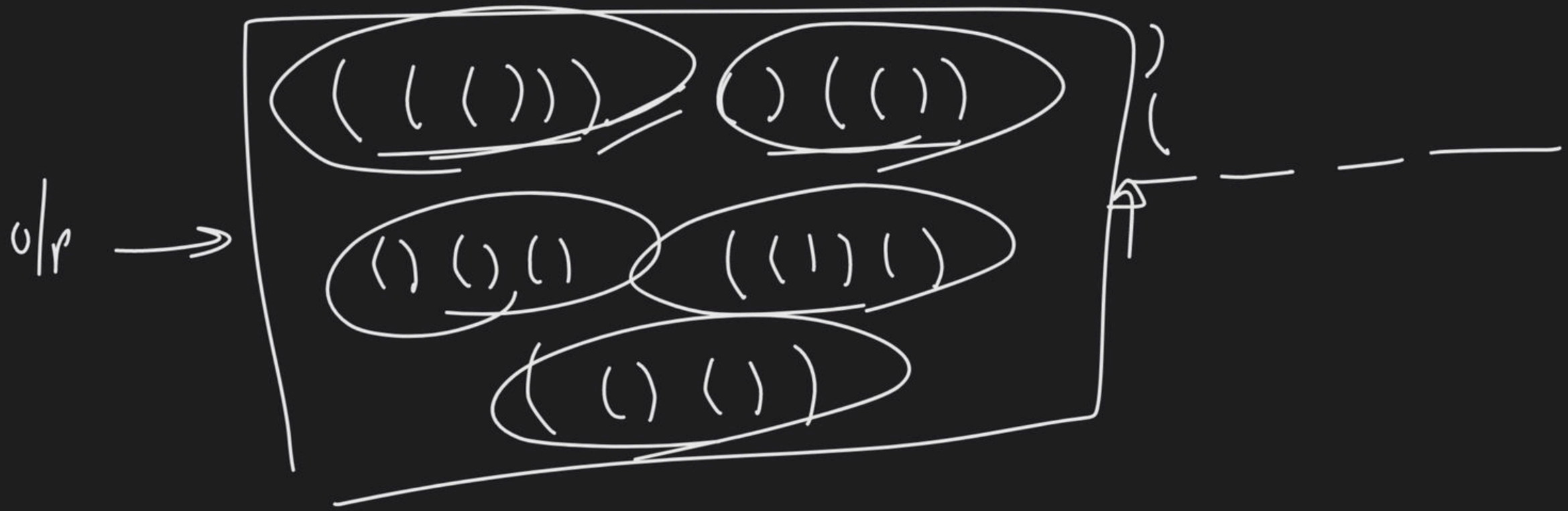
Moore Work → Binary Watch (Easy)

Generate Parenthesis

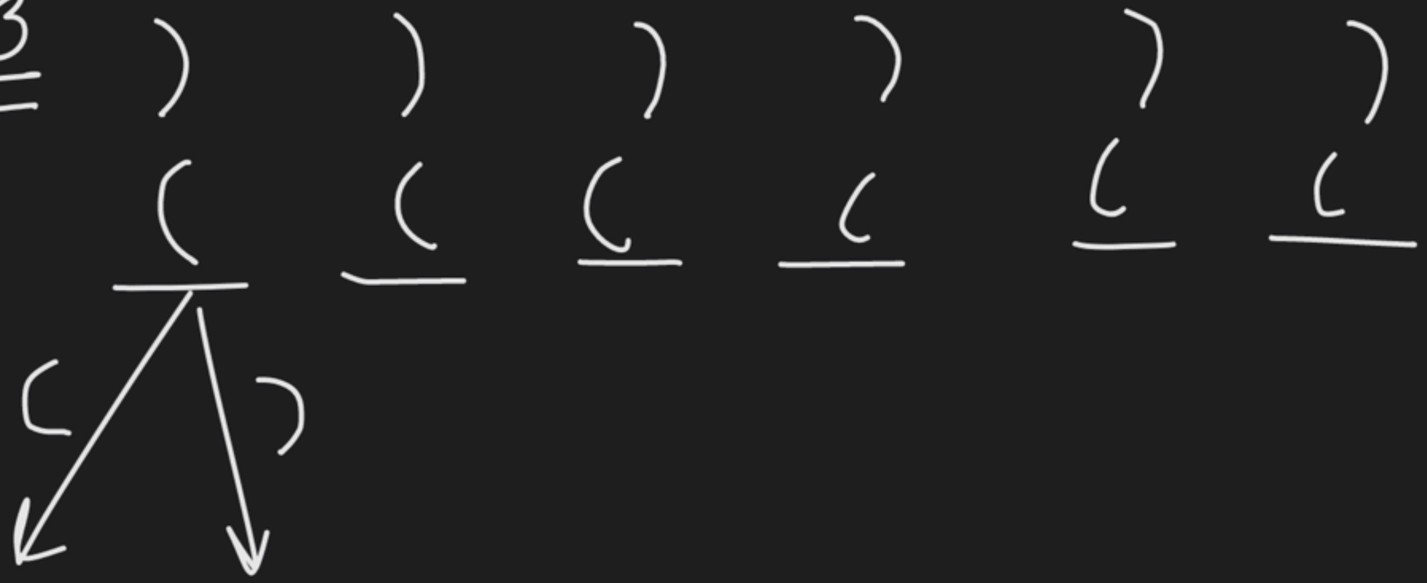
i/p → n = 3

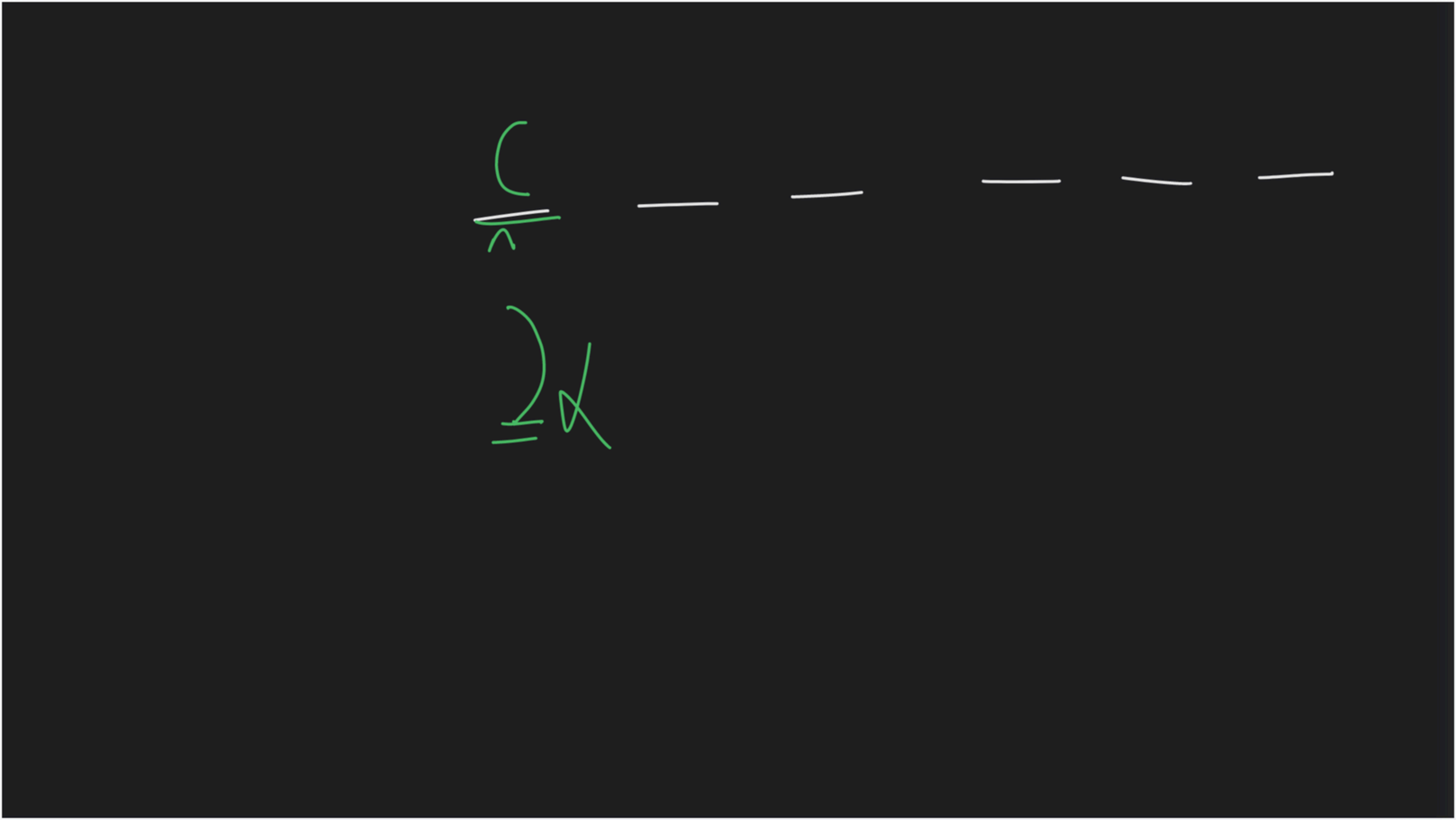
(((→ open Br.

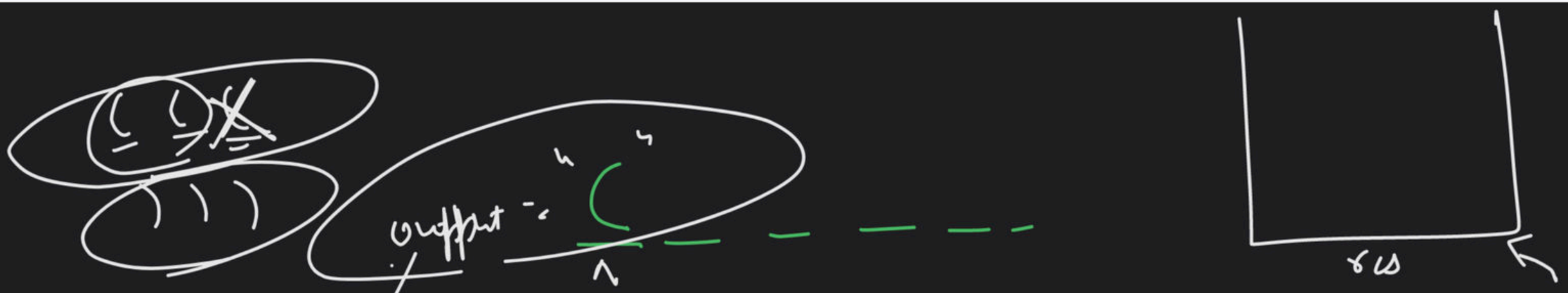
))) → open Br



n = 3







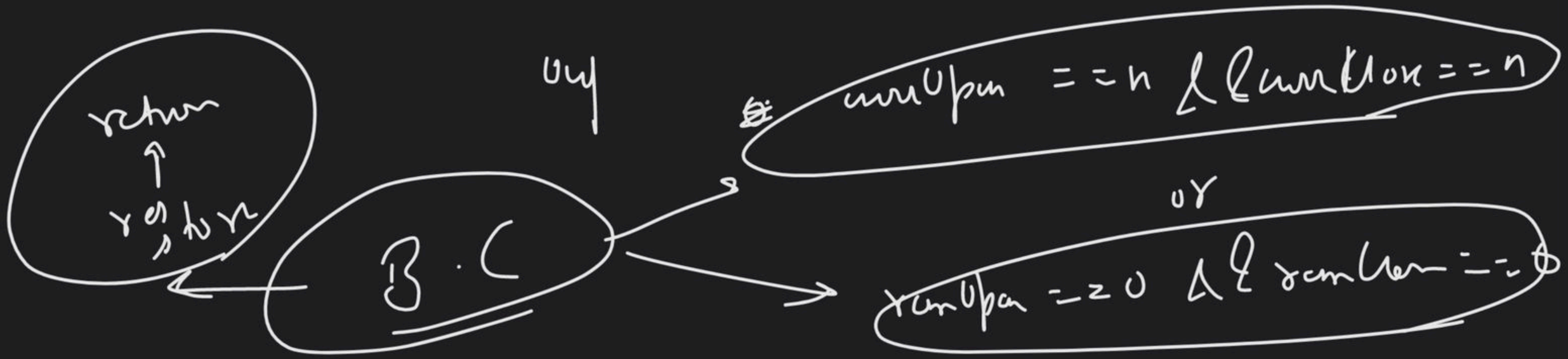
temp

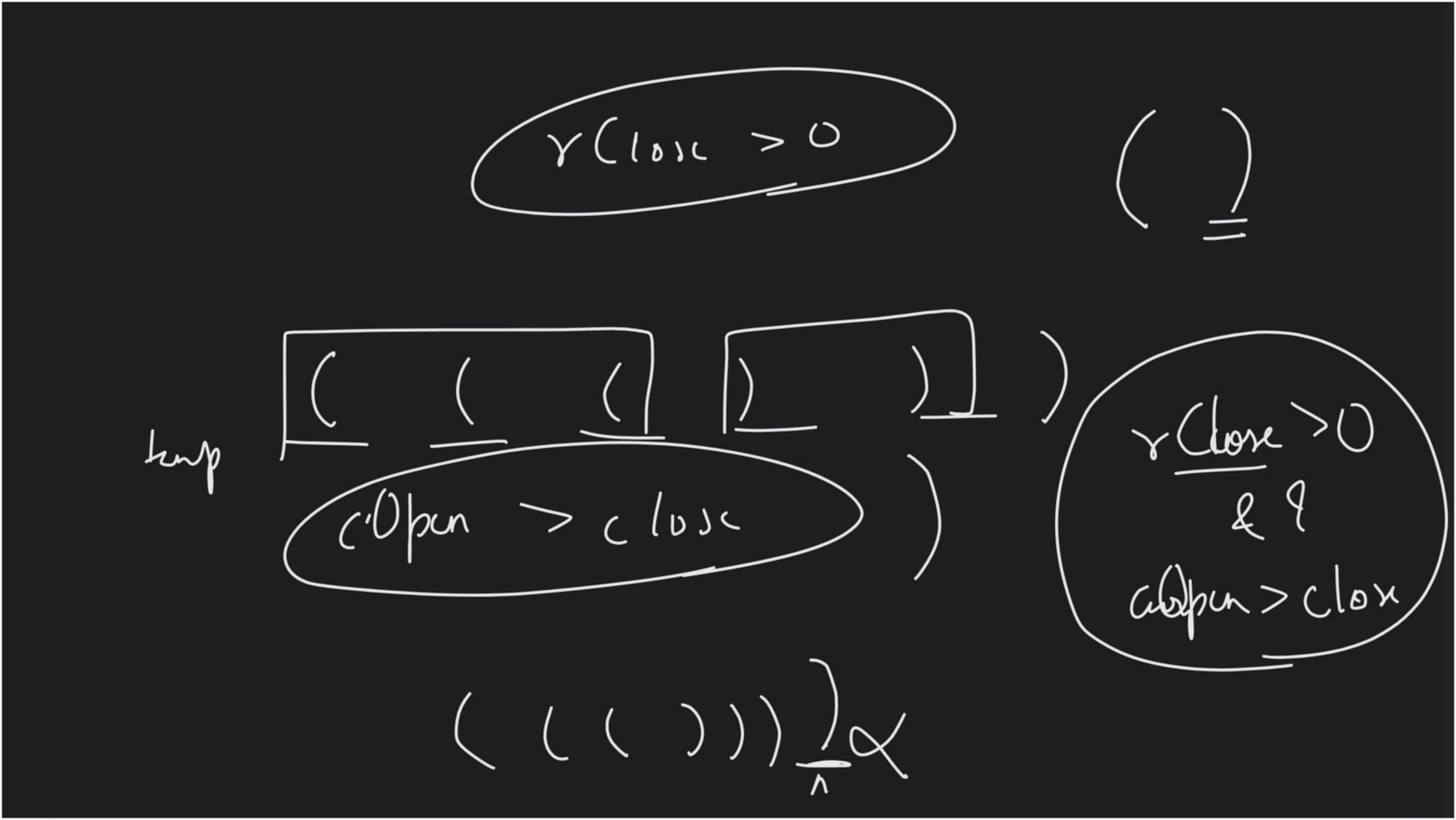
↳ currOpen = 1

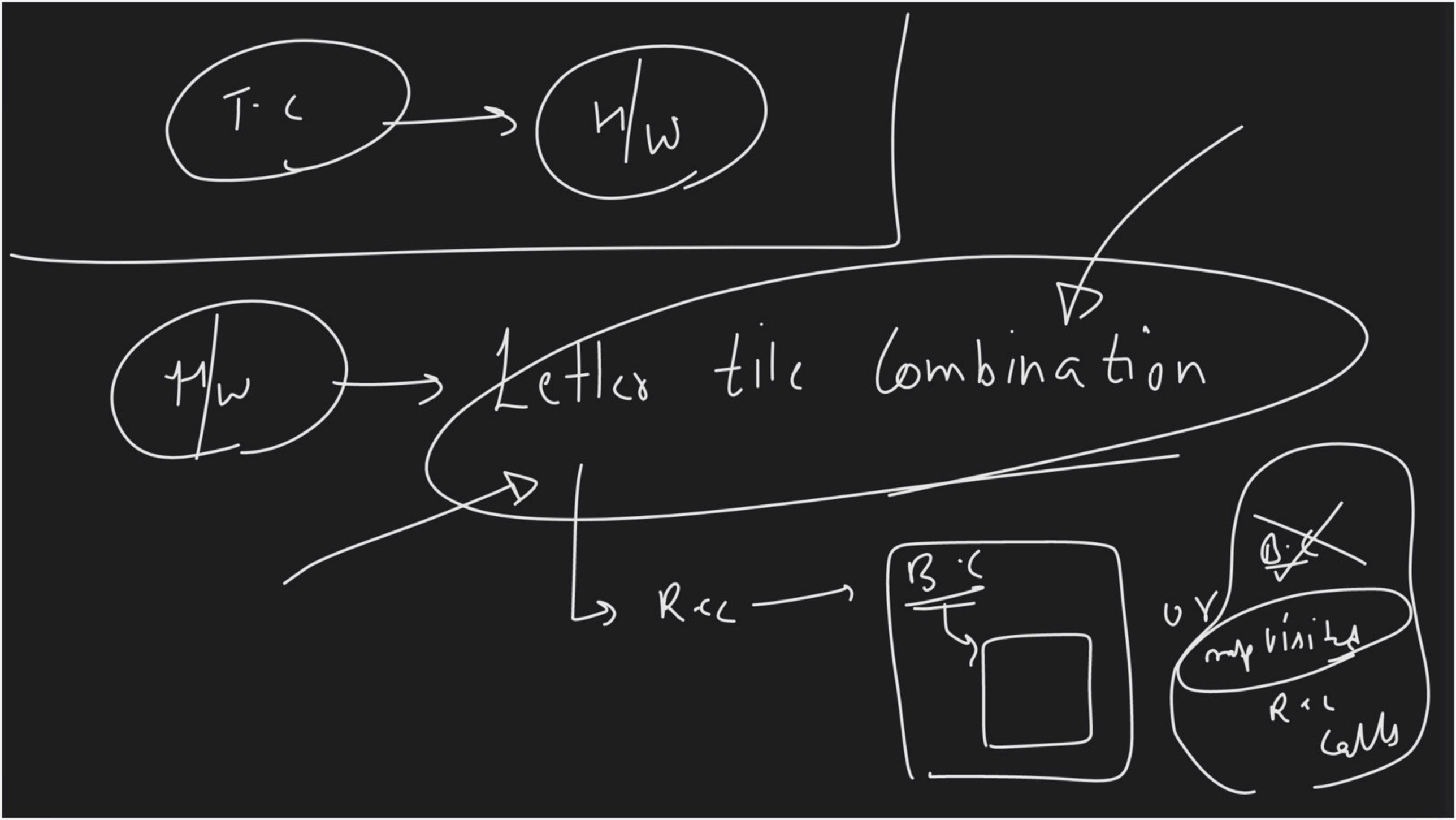
↳ currClose = 0

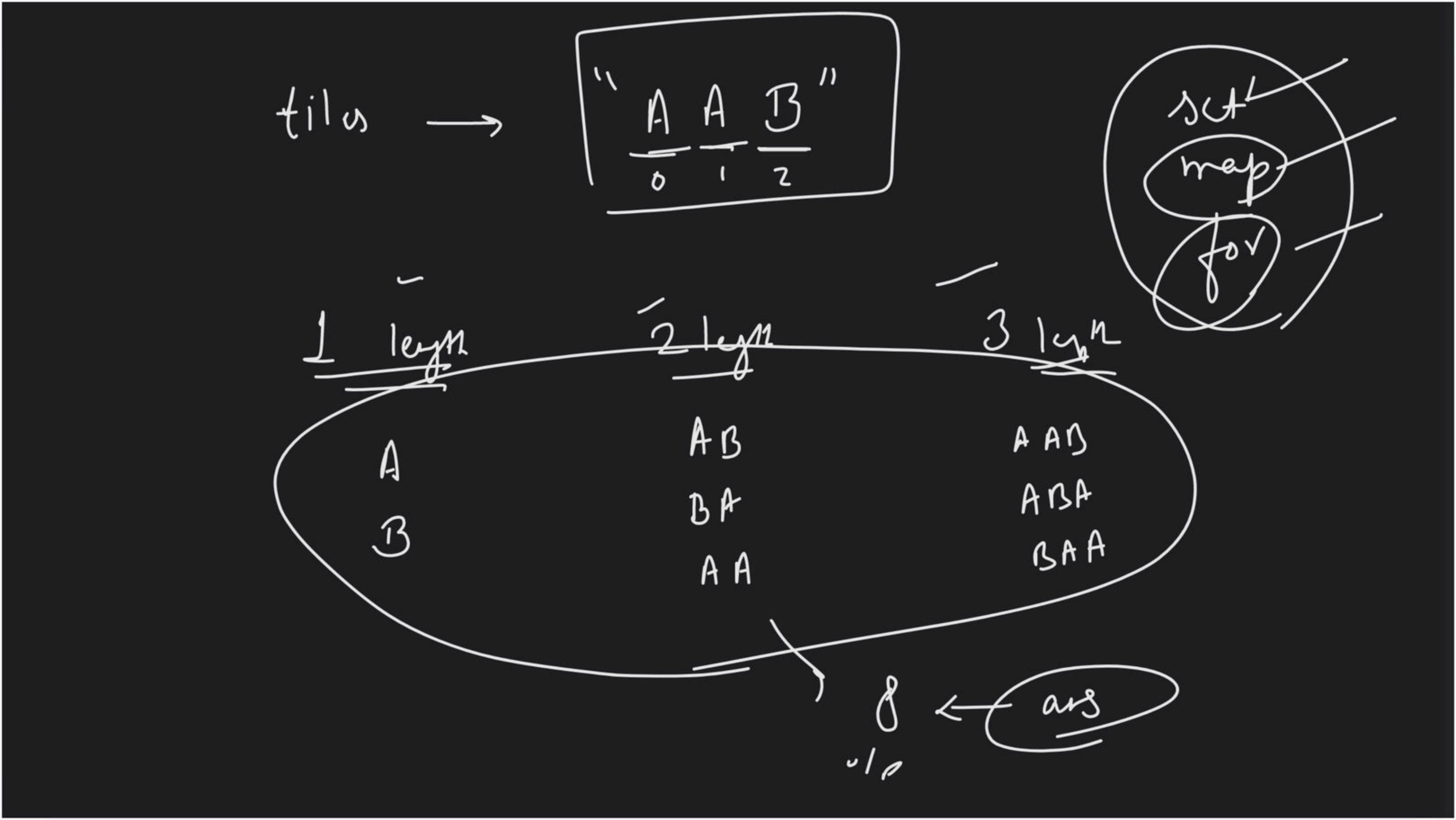
↳ remOpen = 2 or n-1

↳ remClose = 3 or n




r Close > 0
( )
temp
((( ))
c Open > c Close
r Close > 0
&
c Open > c Close
((( )))
^


T.C
H/W
H/W
Leftex tile Combination
Rec
B.C
U V
map visited
Rec
Cells


tiles
"AAB"
0 1 2
set
map
for
1 length
2 length
3 length
A
B
AB
BA
AA
AAB
ABA
BAA
ans
o/p

Binary tree Path

Subsets

Subsets Sum of XOR total → (H/L Bit Mask)

(H/L) → Binary Watch

Generate Parentheses

(H/W) → Letter tile Comb.

Bye Bye

Thursday

↳ Doubt Session

↓

9-11 pm

4 sessions Sat/Sun

4-6