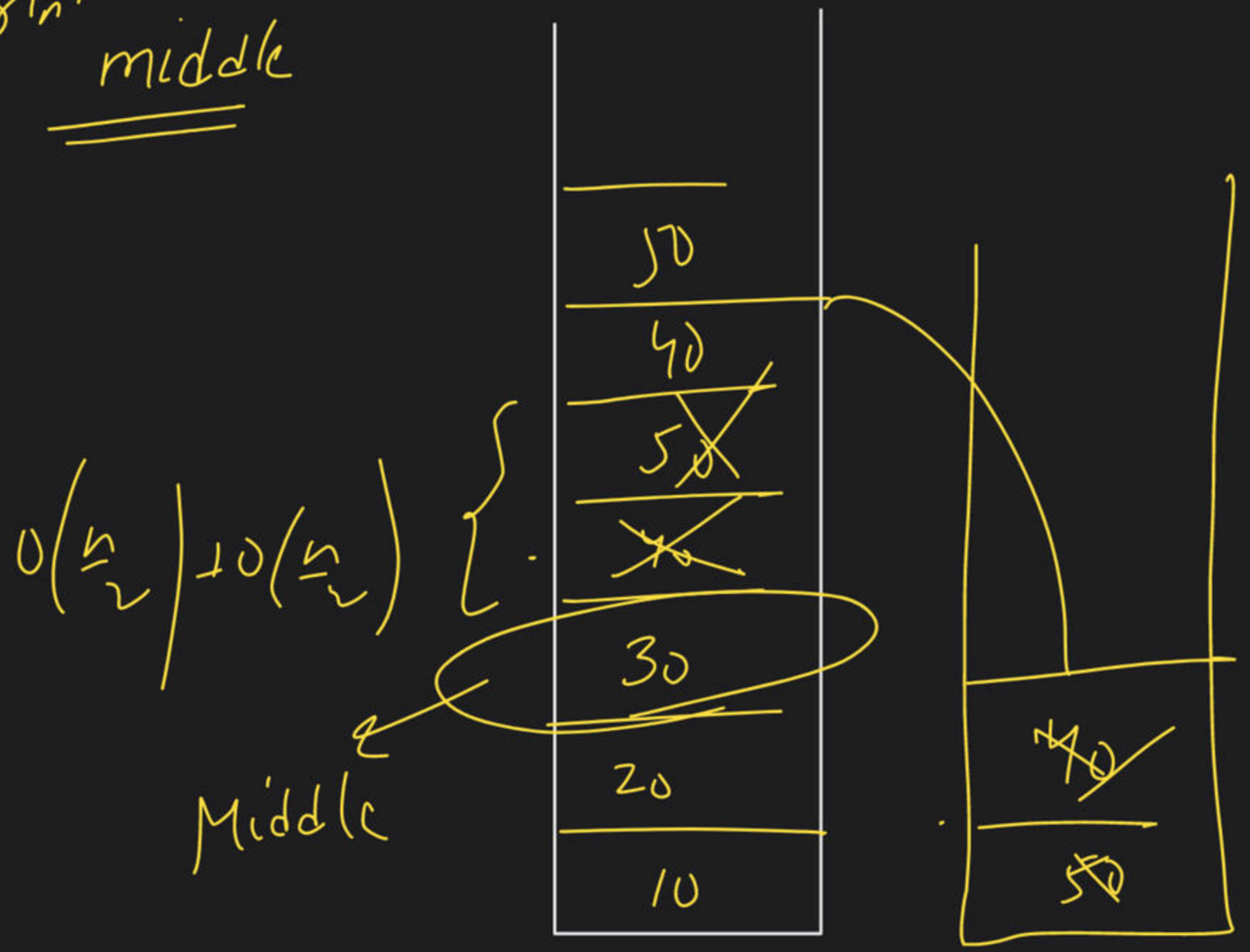
Stack Class - 2

Special class

Love Babbar • July 31, 2024

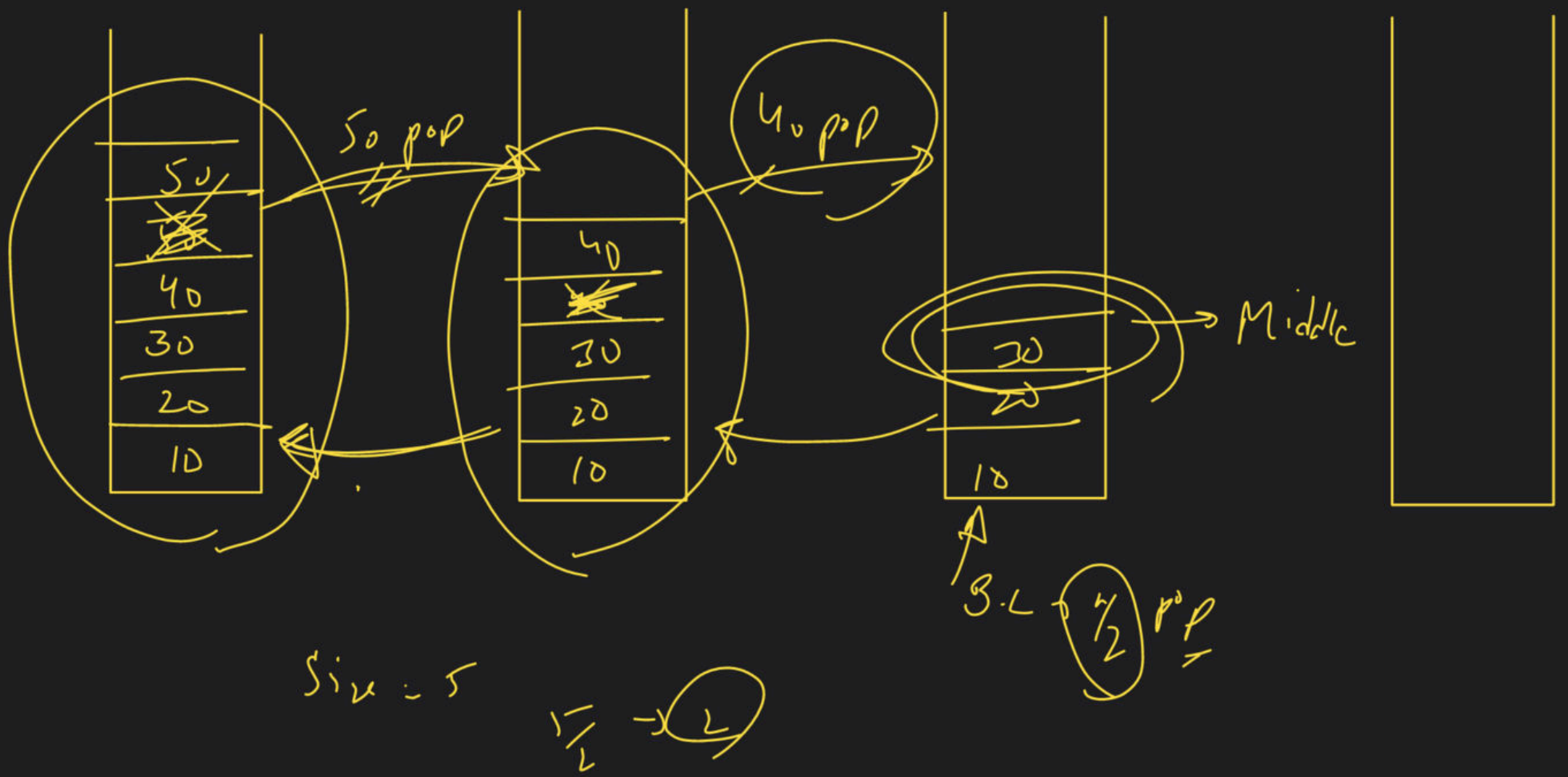
Print middle



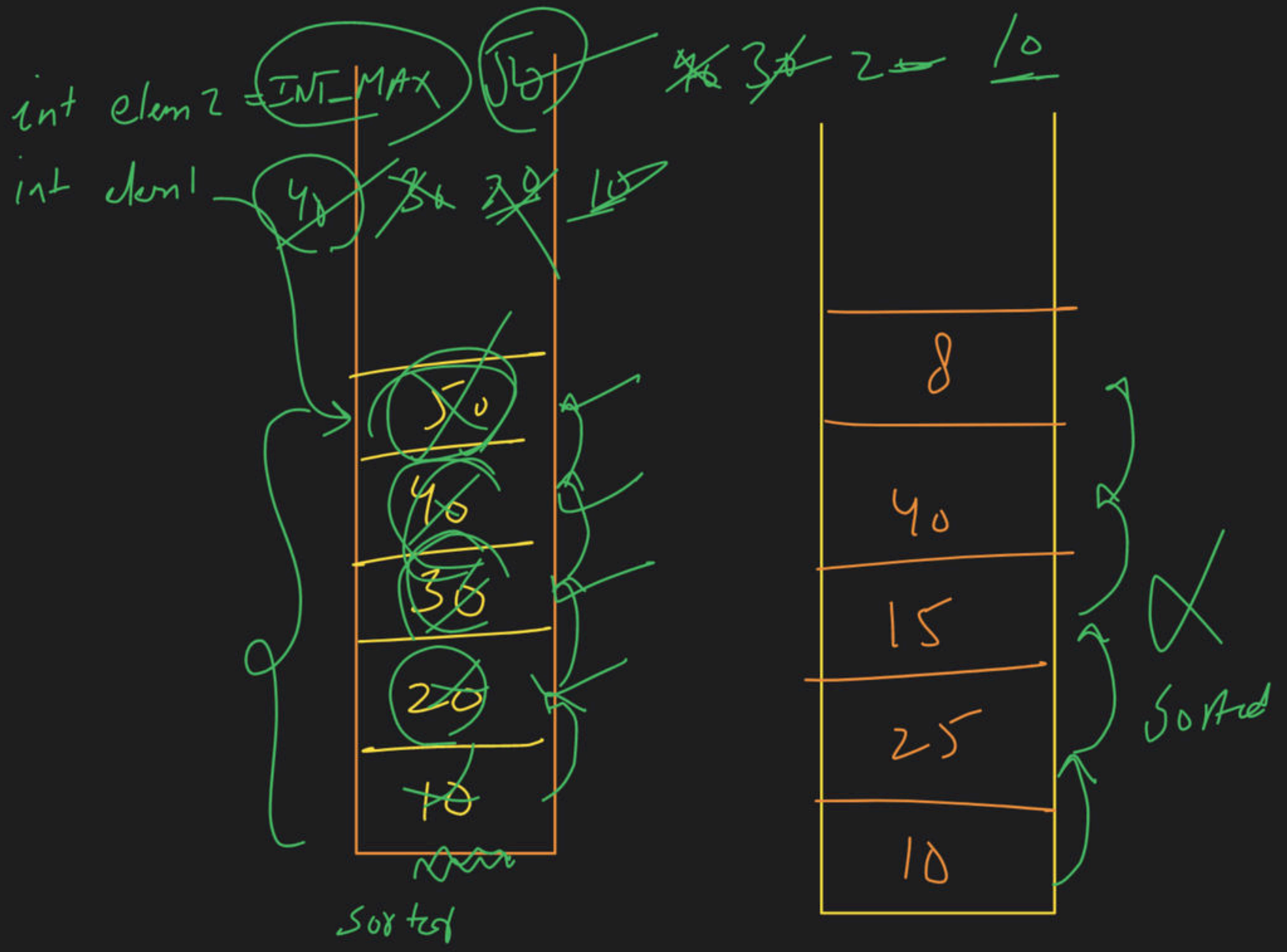
size = n

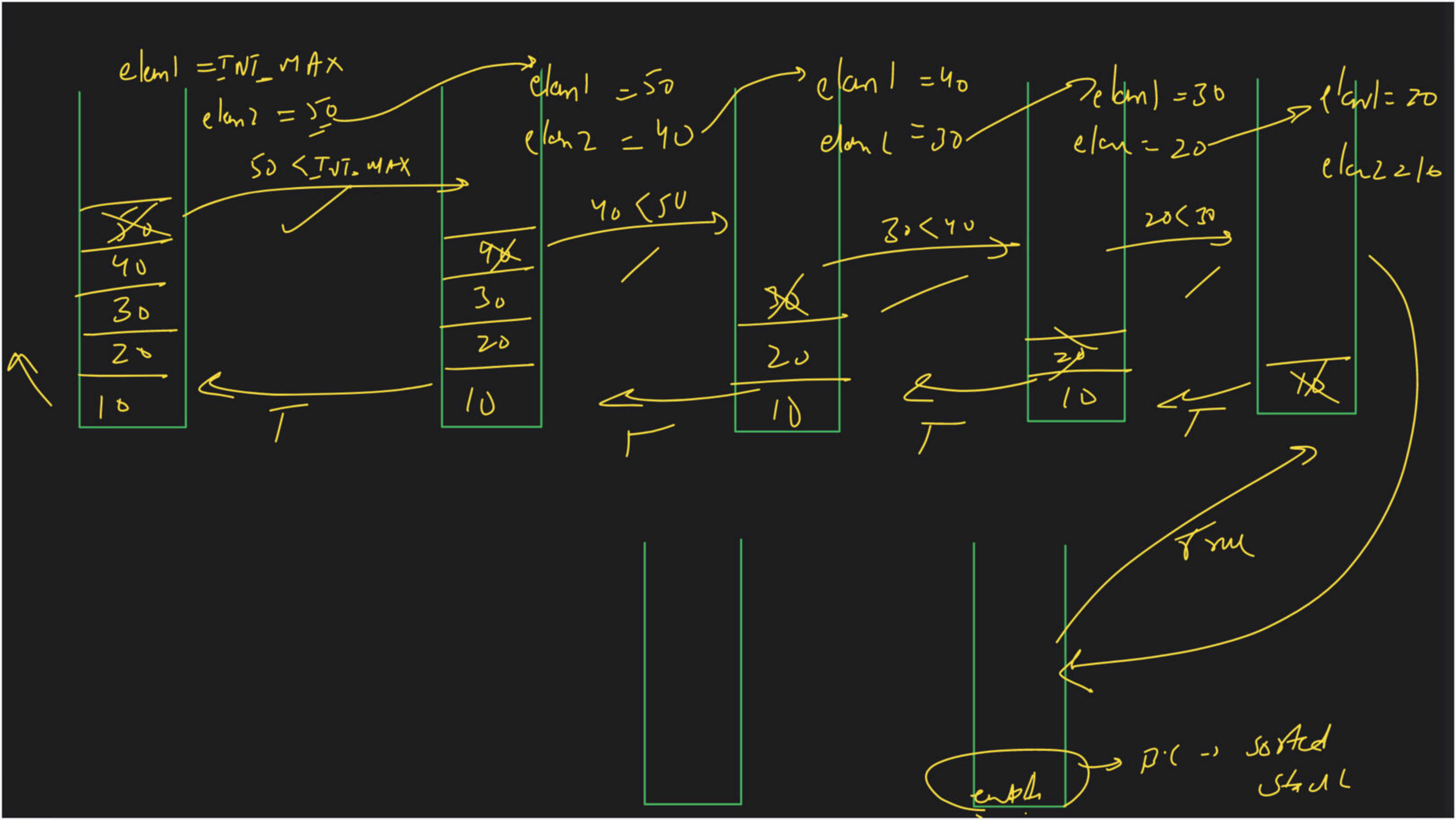
$n/2 \rightarrow \frac{n}{2}$ 2

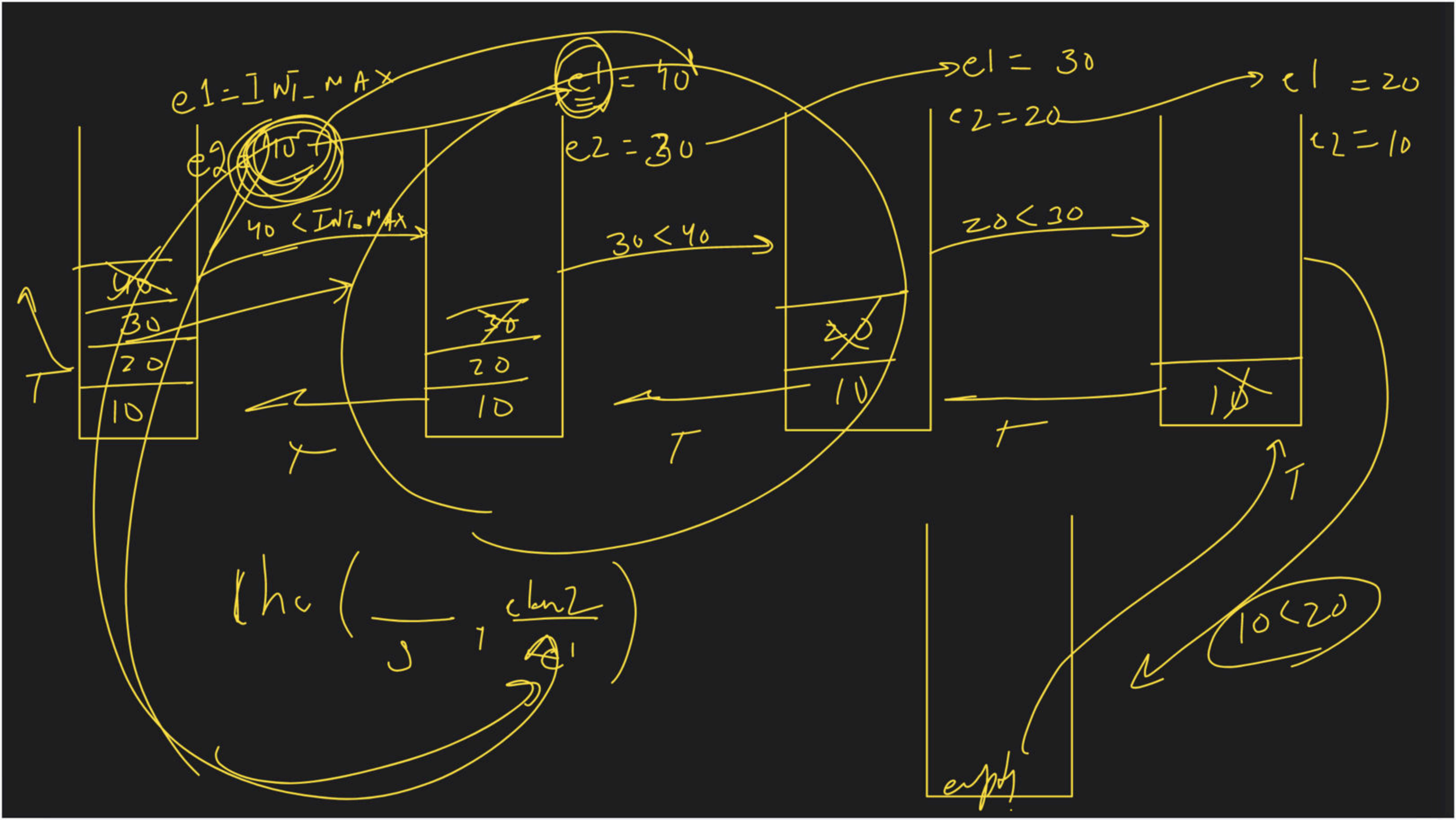
S.C → O(n)


50
40
30
20
10
50 pop
40
30
20
10
40 pop
30
20
10
Middle
B.L
n/2 pop
Size = 5
n/2 → 2

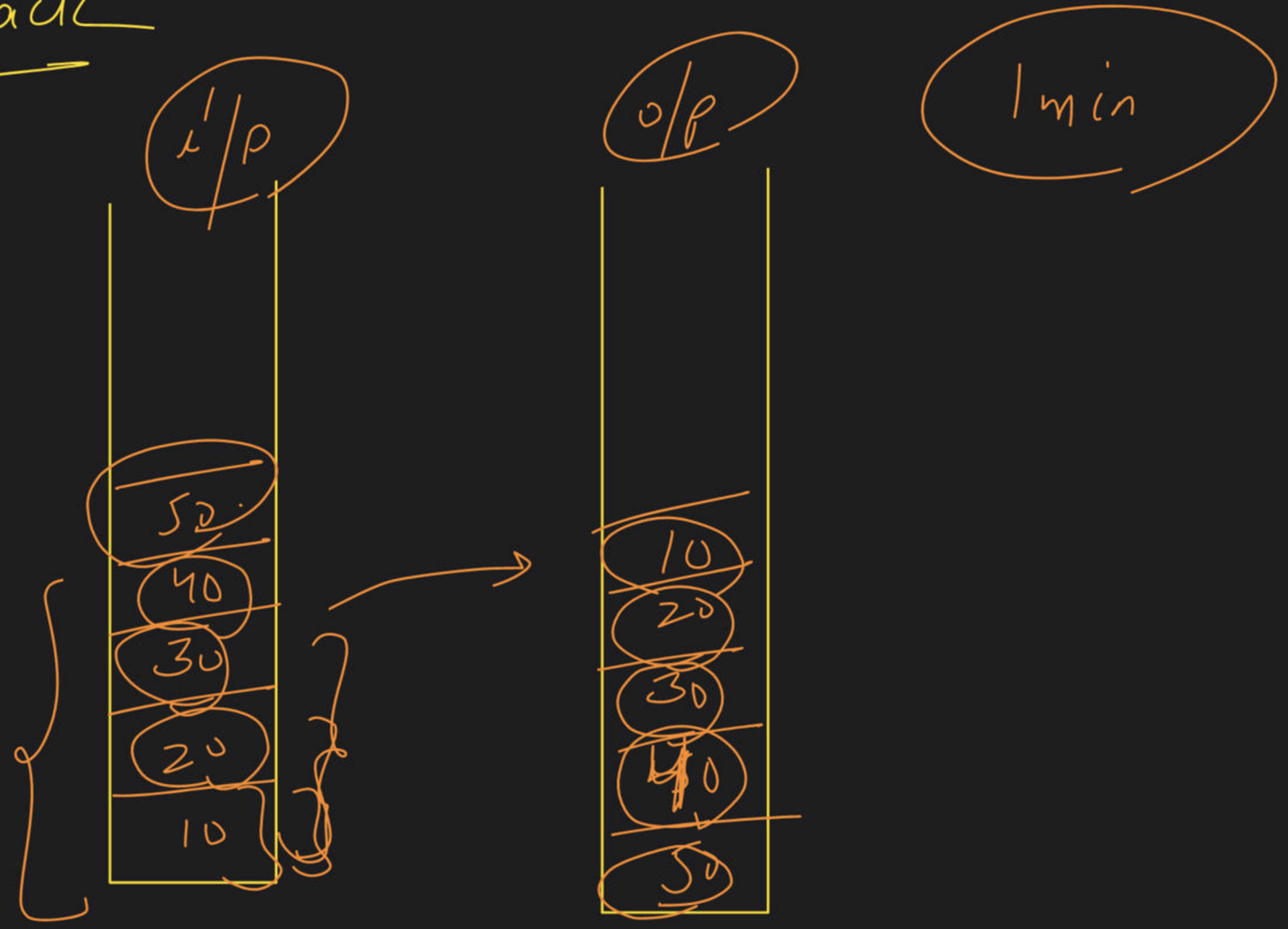
checkSorted

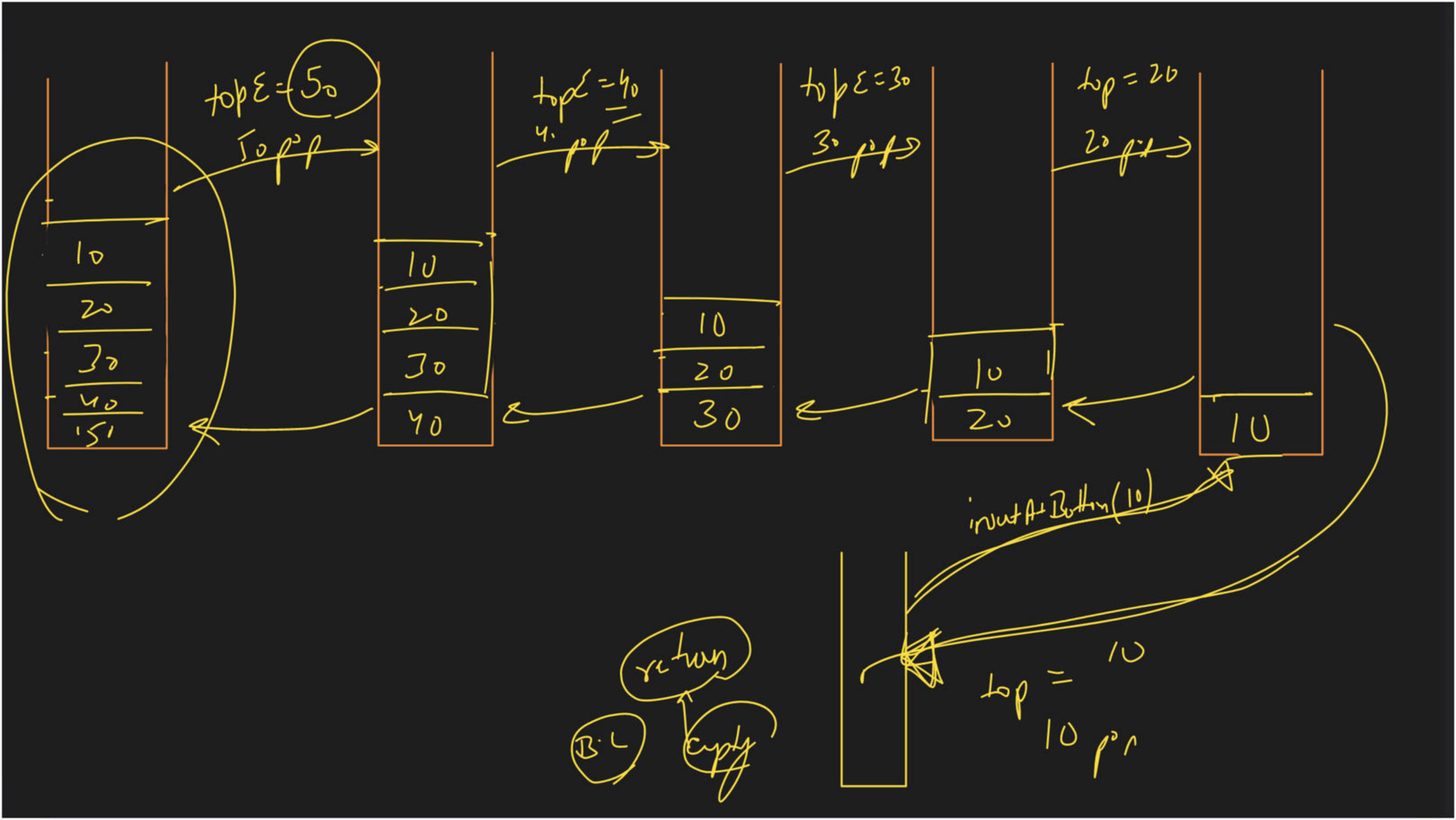



elem1 = INT_MAX
elem2 = 50
50 < INT_MAX
40
30
20
10
elem1 = 50
elem2 = 40
40 < 50
30
20
10
elem1 = 40
elem1 = 30
30 < 40
20
10
elem1 = 30
elem = 20
20 < 30
10
elem1 = 20
elem2 = 10
T
T
T
T
T
true
empty
pic -> sorted stack


e1 = INT_MAX
e2
10
e1 = 40
e2 = 30
e1 = 30
e2 = 20
e1 = 20
e2 = 10
40 < INT_MAX
30 < 40
20 < 30
10 < 20
40
30
20
10
30
20
10
20
10
10
T
T
T
T
T
empty

Reverse a stack

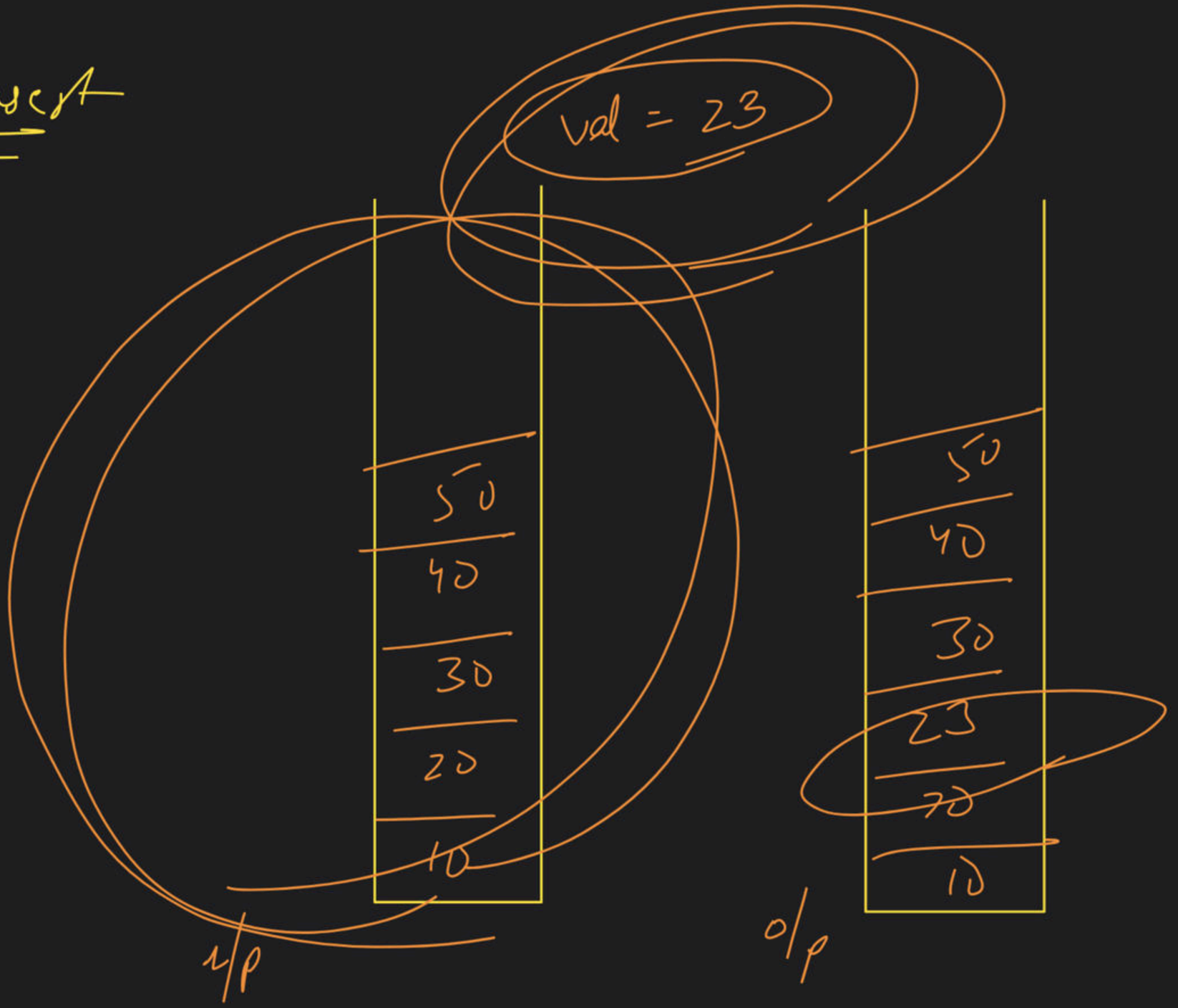


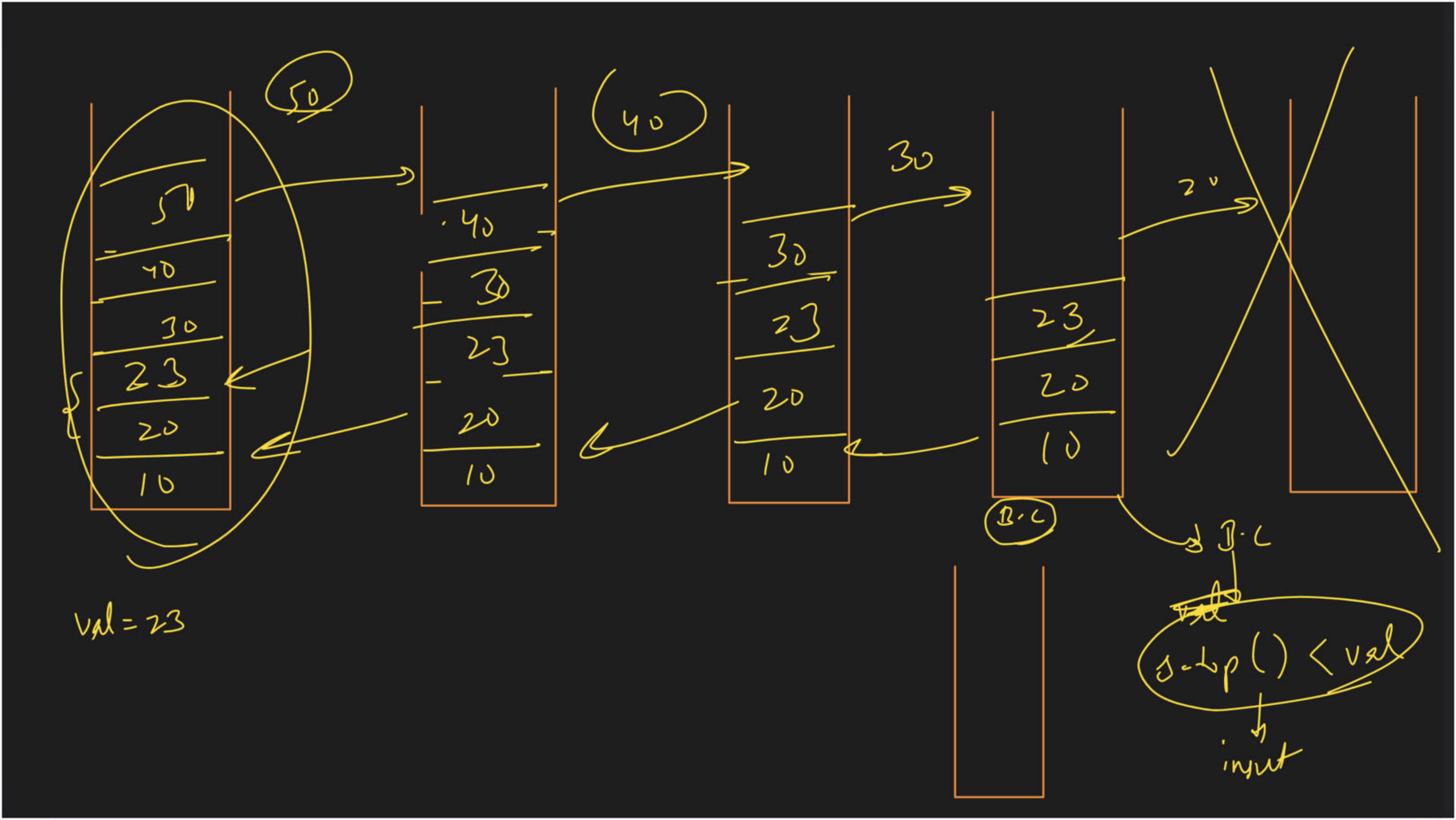

top = 50
1 pop
top = 40
1 pop
top = 30
3 pop
top = 20
2 pop
10
20
30
40
50
10
20
30
40
10
20
30
10
20
10
insertAtBottom(10)
top = 10
10 pop
return
B.L
empty

→ Sorted Insert

2 min

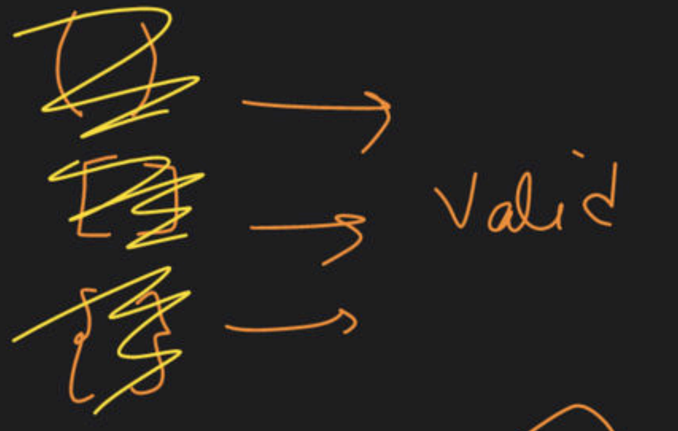
Sochu

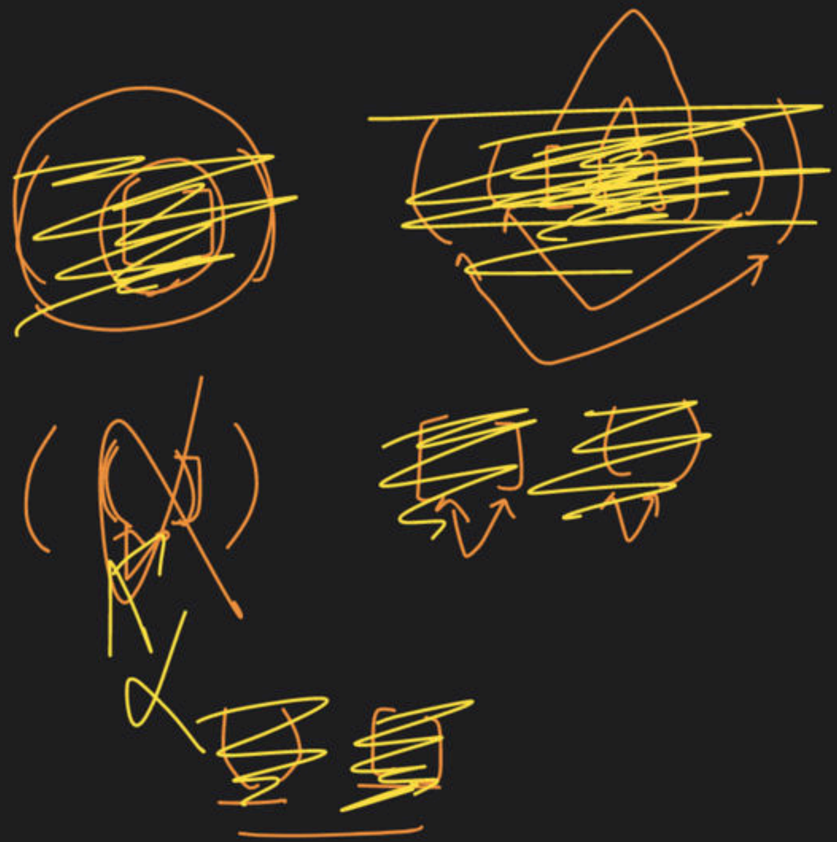


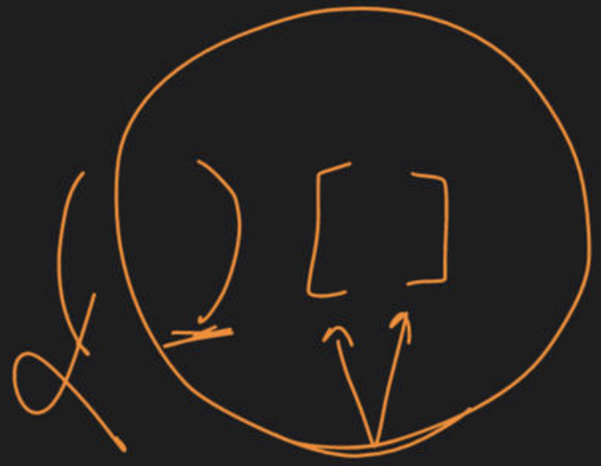

50
57
40
30
23
20
10
40
30
23
20
10
30
30
23
20
10
20
23
20
10
val = 23
s.top() < val
input

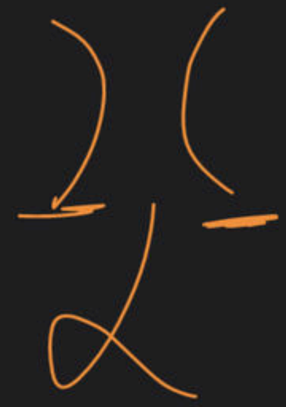
Valid Parenthesis

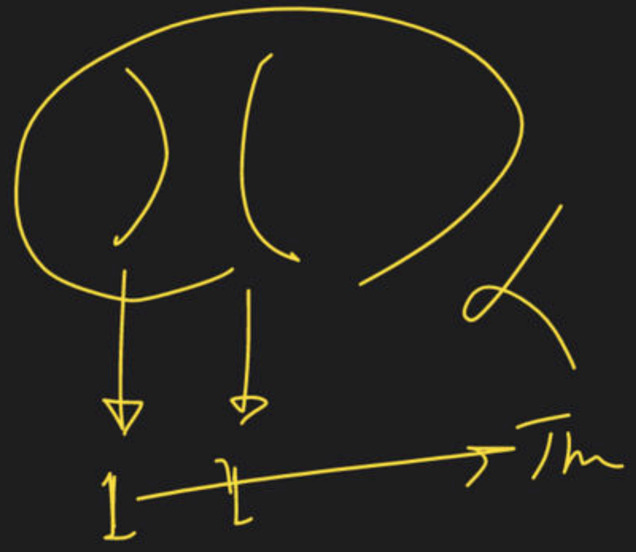
2 min Break



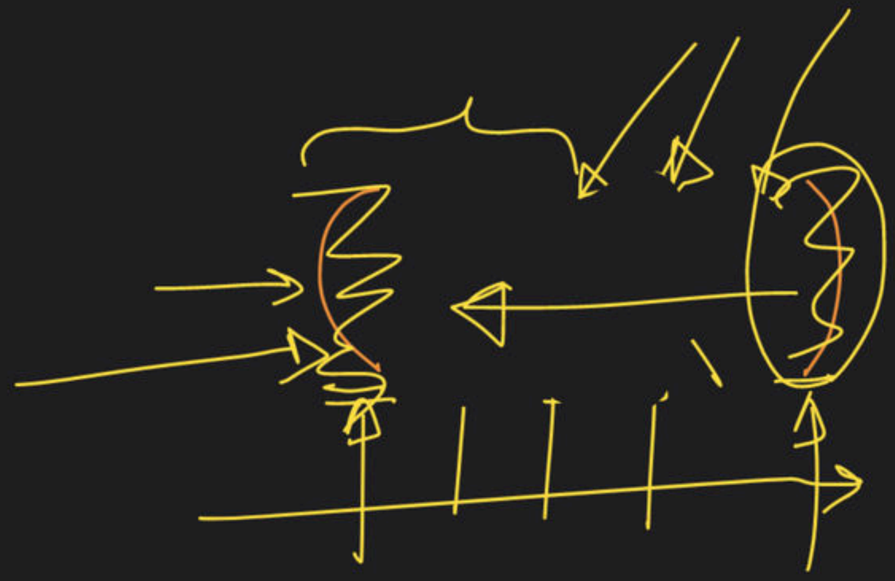


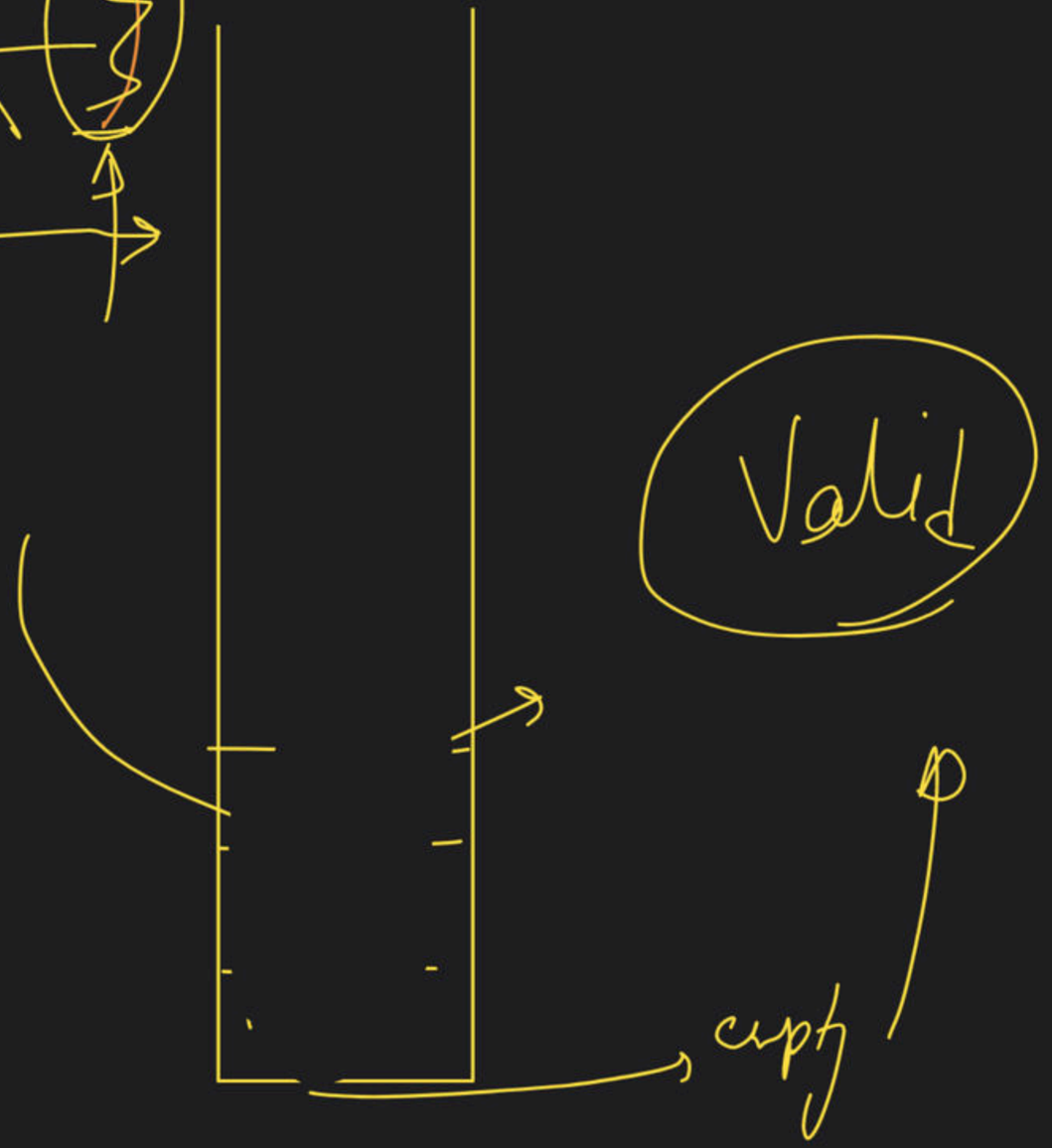





1
Th

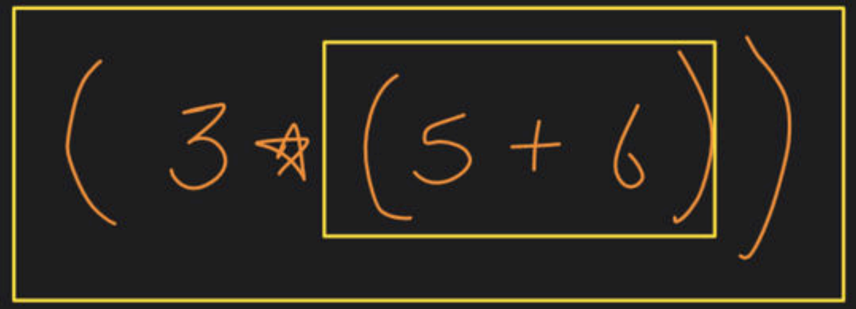
How ?

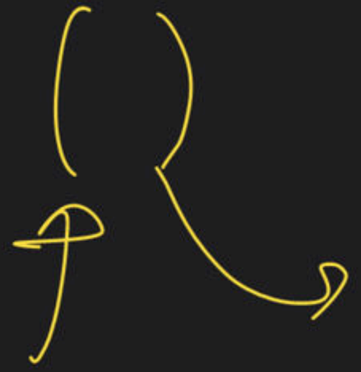


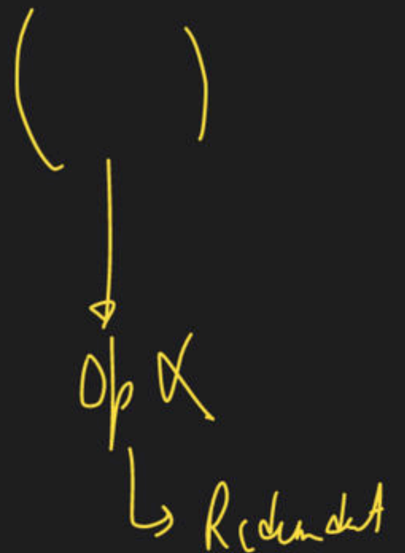


Check Redundant Brackets

i/p →



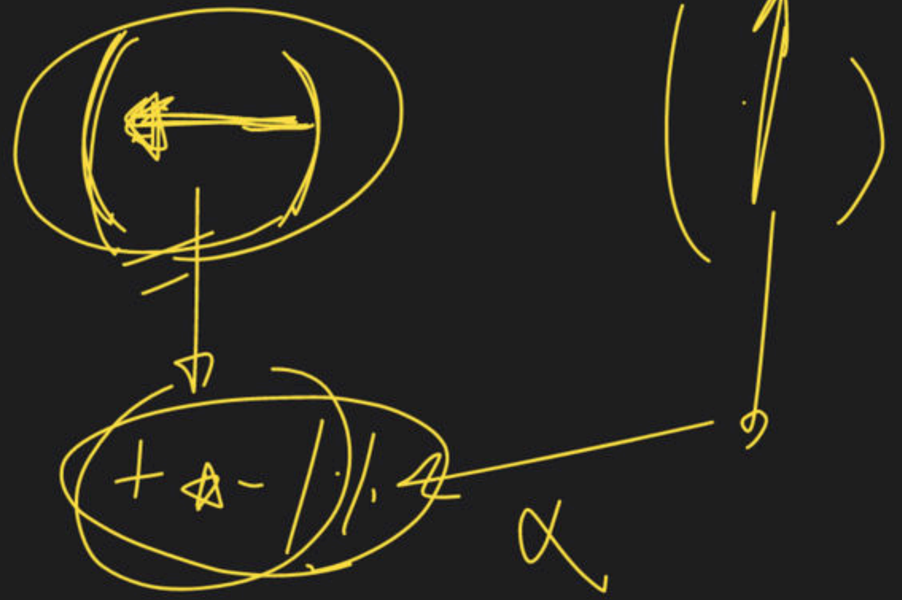




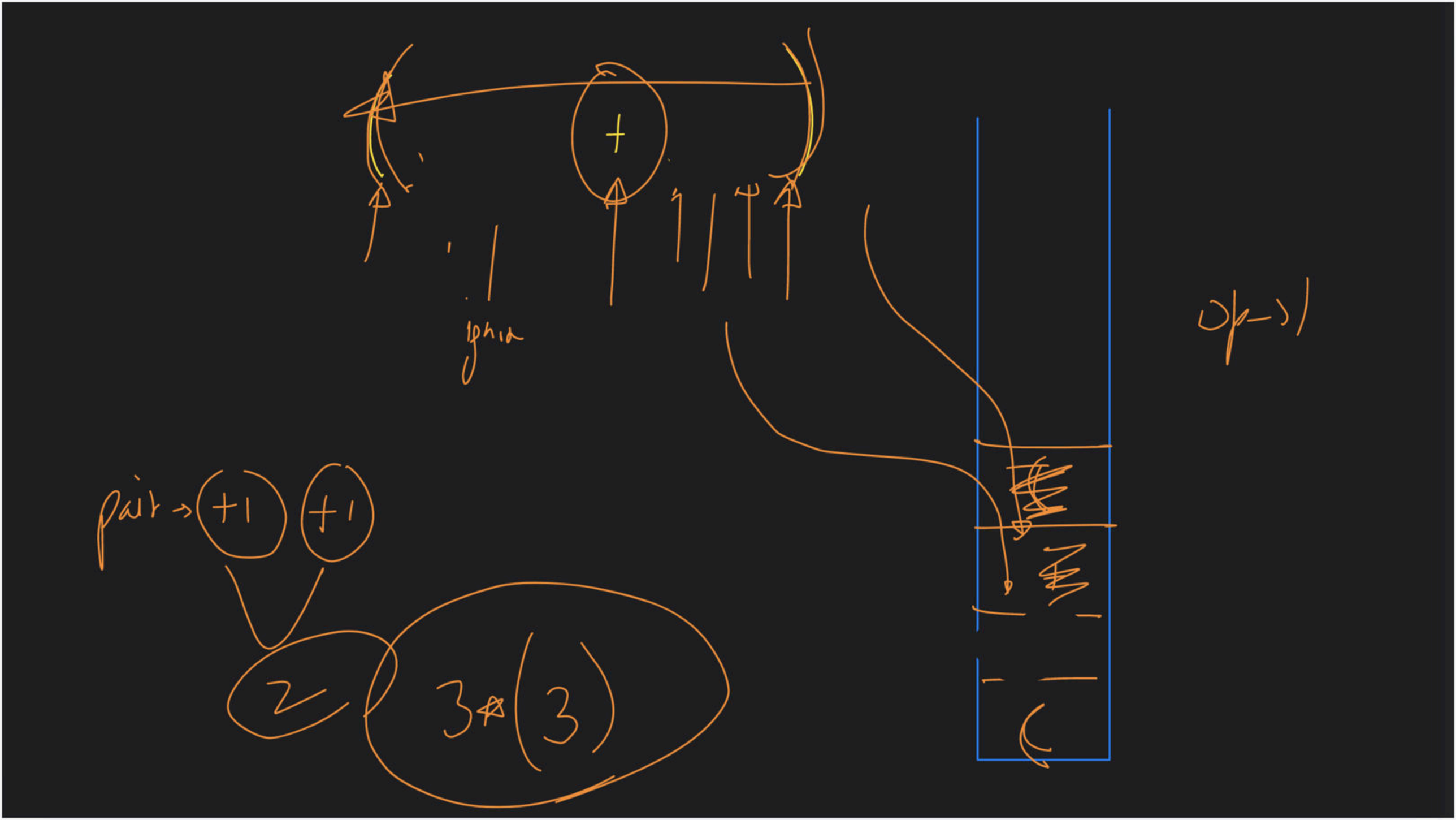
2 pair

↳ of Rcn

(3+5)



$$\left(\left(\frac{1}{3}\right) + \left(\frac{1}{5}\right)\right)$$


+
pair
+1
+1
2
3*(3)

Kal

8:30 pm