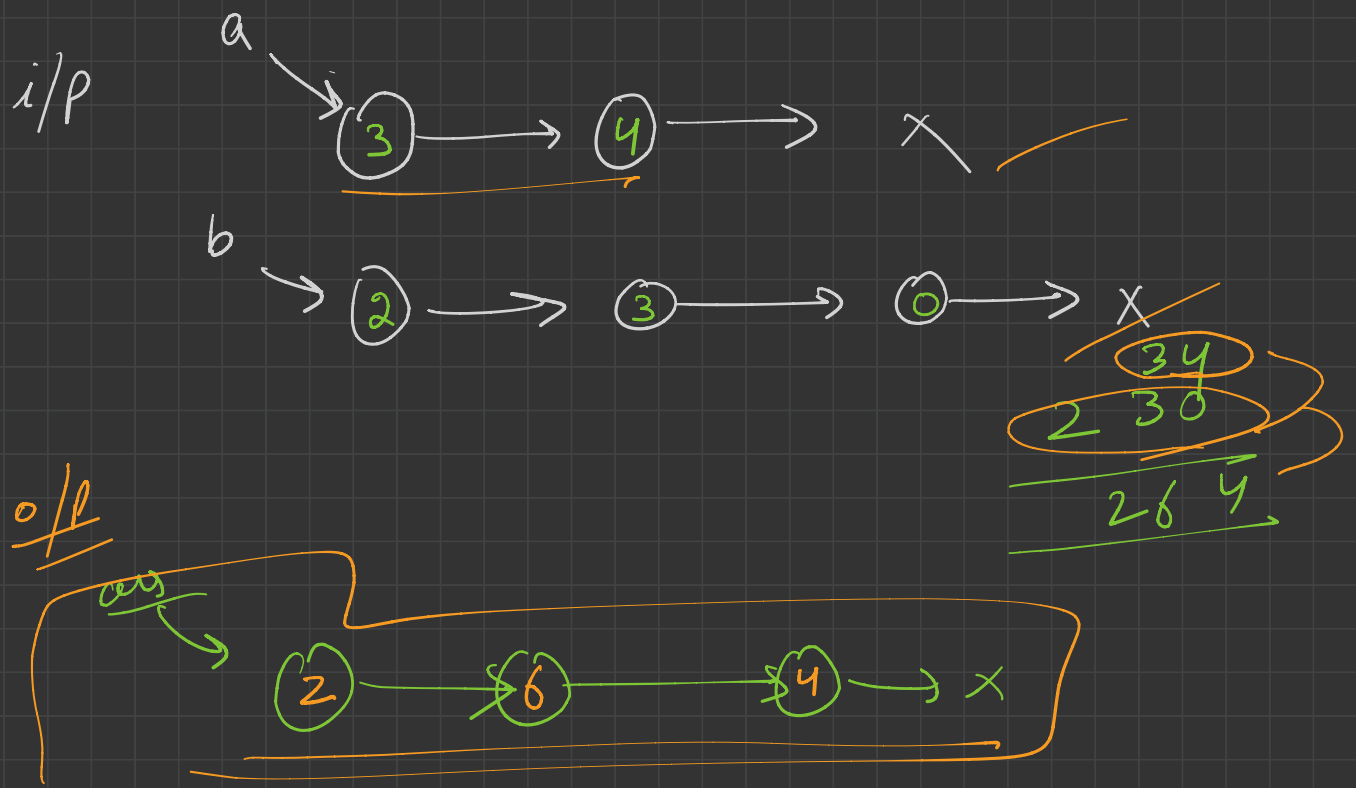
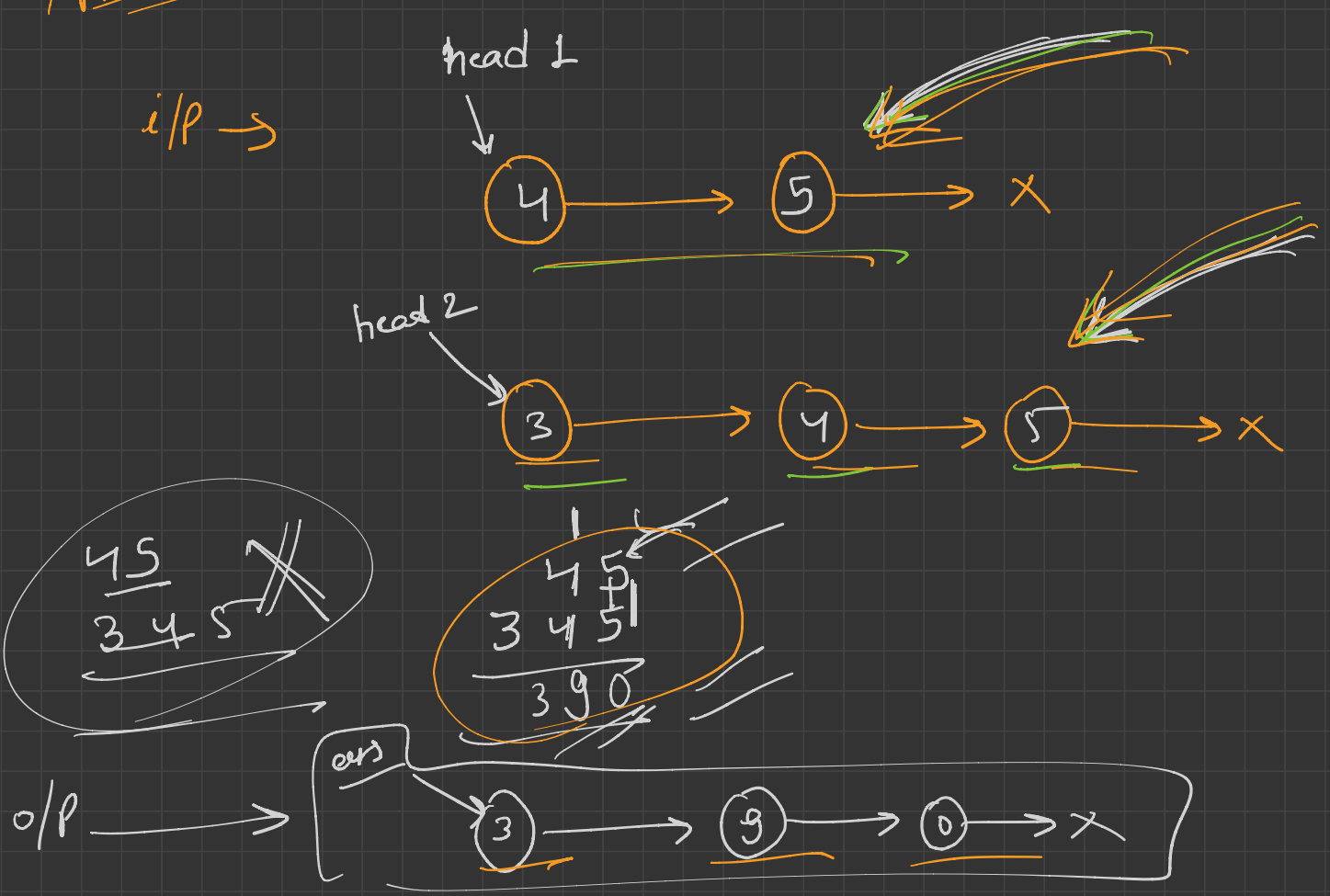
Add 2 Numbers

→ Add 2 no rep by LL

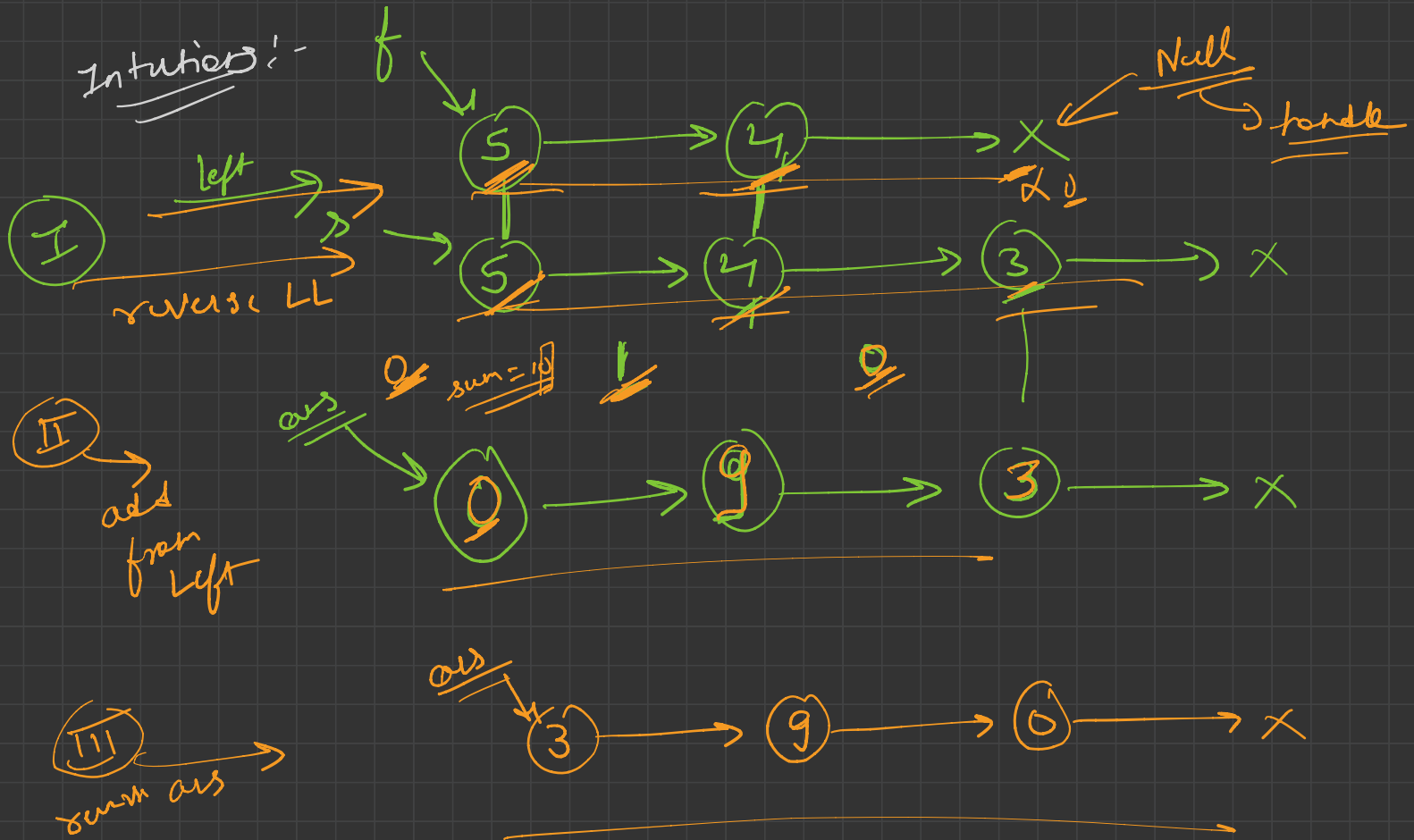
→ Add 1 to a no rep by LL


i/p
a
3
4
b
2
3
0
X
34
230
264
o/p
2
6
4
X

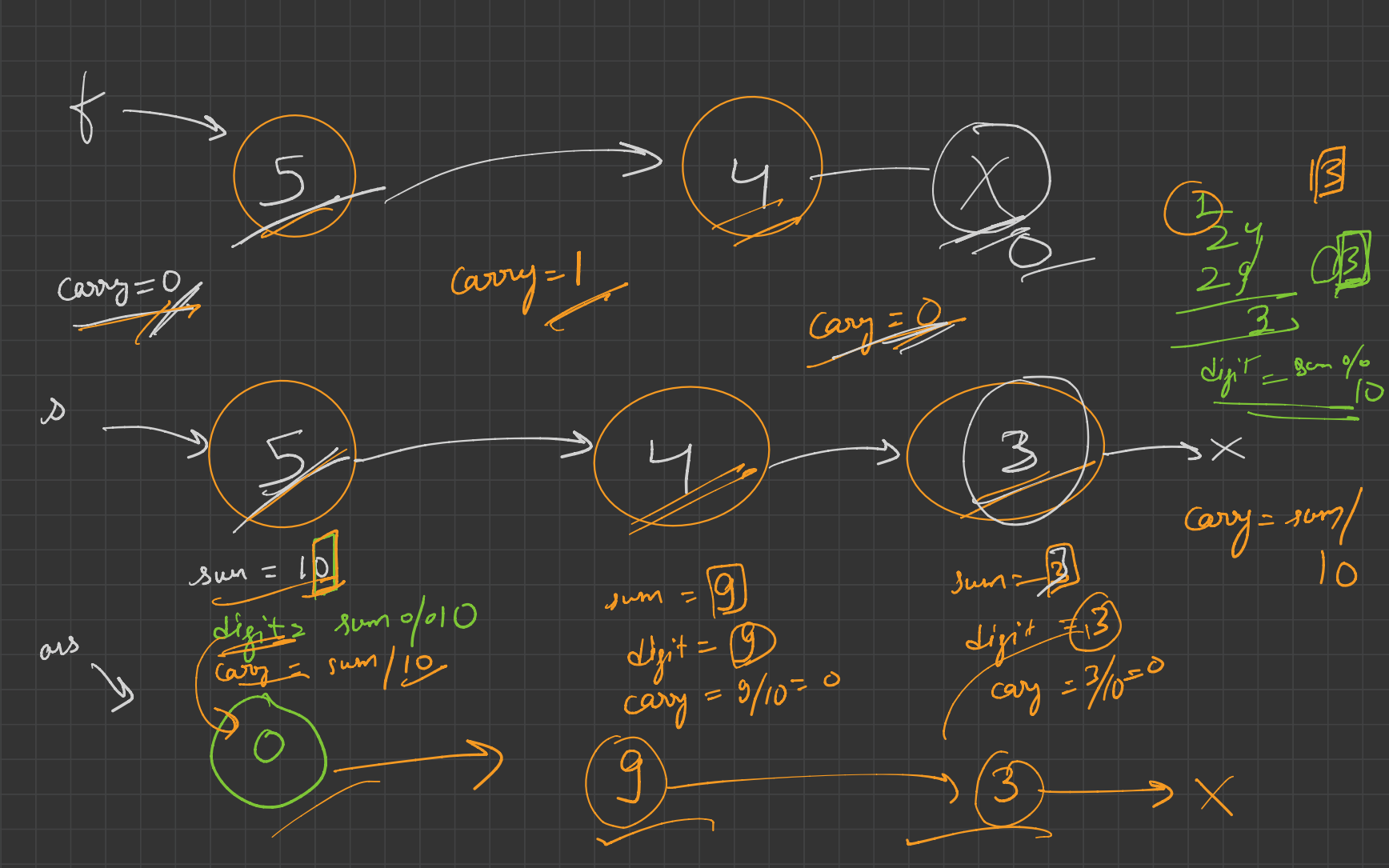
Approach

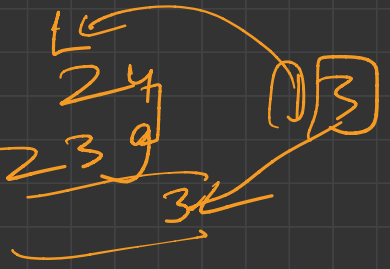


Intuitions :-



f
Null
handle
I
left
reverse LL
5
4
X
5
4
3
X
0
sum = 10
1
0
II
add from Left
ans
0
9
3
X
III
reverse ans
ans
3
9
0
X


f
5
4
X
carry = 0
carry = 1
carry = 0
1
2 4
2 9
3
3
3
digit = sum % 10
s
5
4
3
X
carry = sum / 10
sum = 10
digit = sum % 10
carry = sum / 10
sum = 9
digit = 9
carry = 9/10 = 0
sum = 3
digit = 3
carry = 3/10 = 0
ans
0
9
3
X



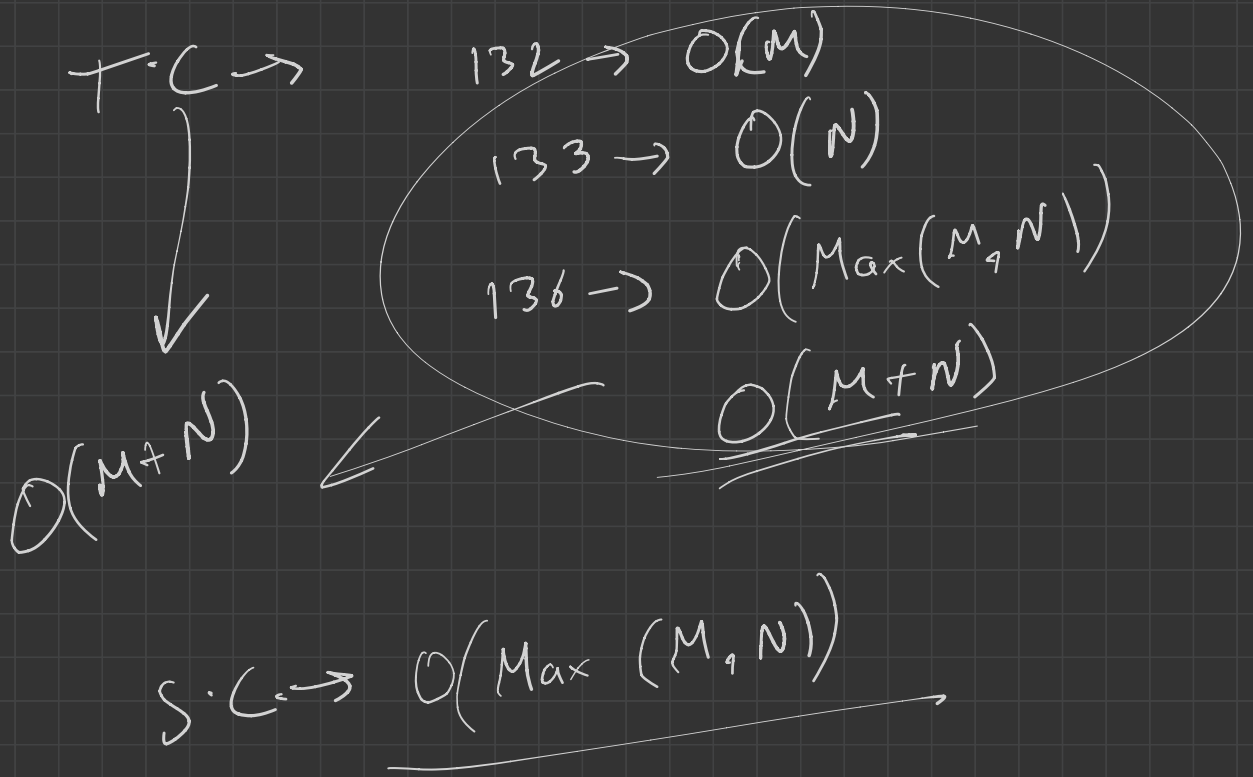
I — carry = 0

II → sum find

III → digit find digit = sum % 10

IV Create node for digit

V carry nikalo, — carry = sum / 10


T.C →
132 → O(M)
133 → O(N)
136 → O(Max(M, N))
O(M+N)
O(M+N)
S.C → O(Max (M, N))