Print Forward

List Node 1

List Node next

print (curr. data) curr = curr. next

3

Be carefull about using

Curr. next! = null as your

terminating condition otherwise

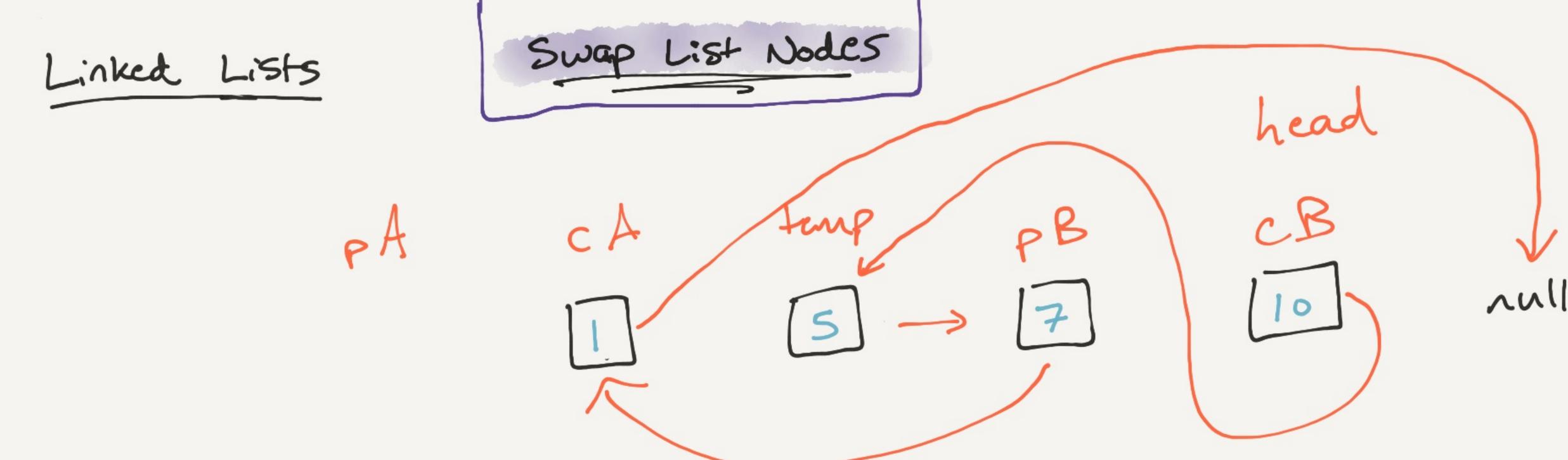
you may run into off by one

errors!

Linked Lists Print Backward List Node 3 int data ListNode next Time: 0(n) Space: 0 (n) function (node) Base Case if (node. == null) return Recursive Step reverse (nøde. next) print (nøde. data) 10,7,5,

function reverse (node) prev = null : cur = node; next=null while (curr! null) ? next = curr.next curc. next = prev prev= curr >> curr = next seturn prev

& Consider ListNode pointers as references that you can set aside for later use



- o. if a = = b return head
- 1. Search for nodes and their ancestors
- 2. Check that both nodes found
- 3. Swap next pointers of pA & pB

 check if CA or CB is head

 a) if pA == null // cA is head

 pB. next = cA

 head = cB
 - b) if pB == null //cB is head

 pA. next = cB

 head = cA
 - c) else Swap pA. next & pB. next normally

- 4. Swap next pointers of CA & CB

 temp = CA. next

 CA. next = CB. next

 CB. next = temp
 - 5. Return head rode

(10) -> 5 -> 7 -> (1) -> rull

