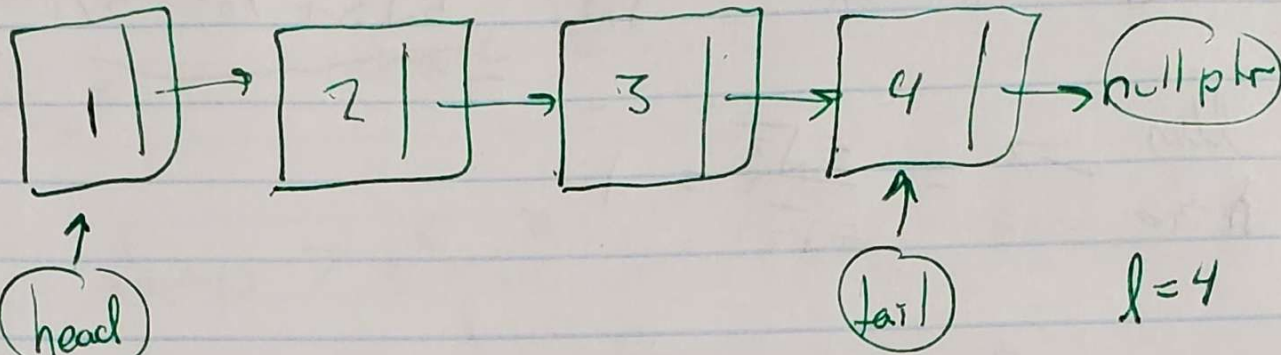


popping H/S:

Pop(~~4~~) =



current = head

for (n)

prev = current

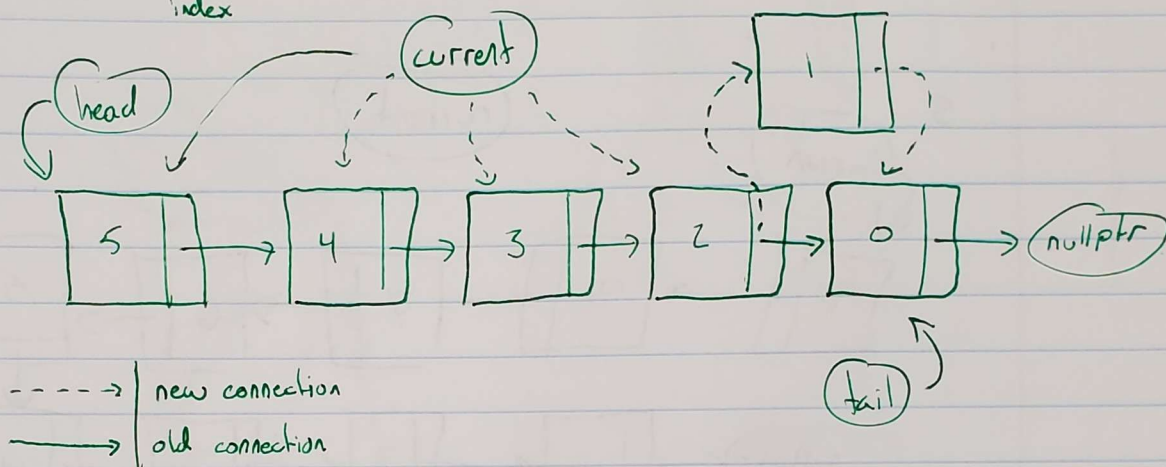
current = current → next

prev → next = current → next

delete current

l--

$\begin{matrix} \text{val} \\ \downarrow \\ \text{push}(1, 4): \\ \uparrow \\ \text{index} \end{matrix}$



~~for all nodes~~

current = head

repeat (index times)

current = current → next

current → next = new Node(val)

length++

need a way to save the node after the insert

Maybe make a temporary Node\* that points to the following node.

Required Special Cases:

push: push to the beginning  
 push to the end  
 push to empty list  
~~empty list~~

pop: pop from beginning  
 pop from end

trying to pop from empty list? maybe exceptions.