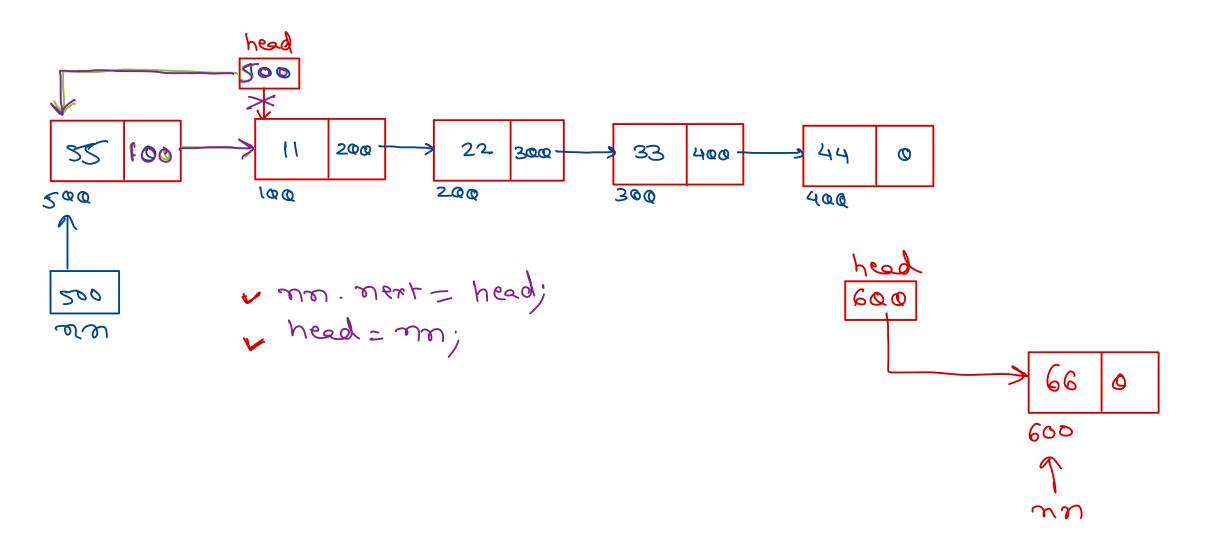


Data Structure & Algorithms

Nilesh Ghule

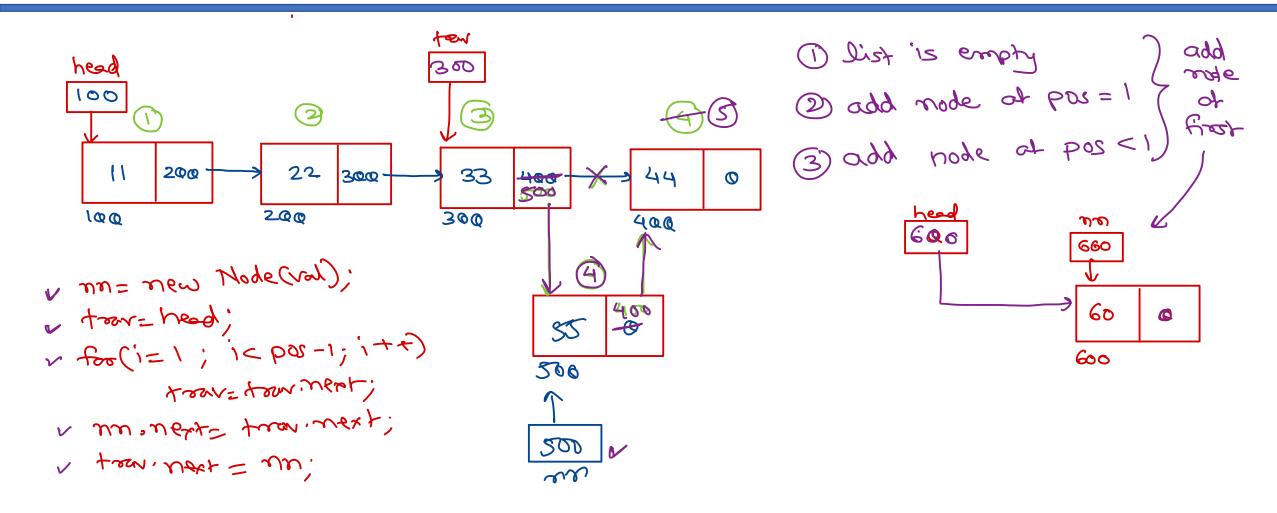


Singly Linear Linked List - add First ()





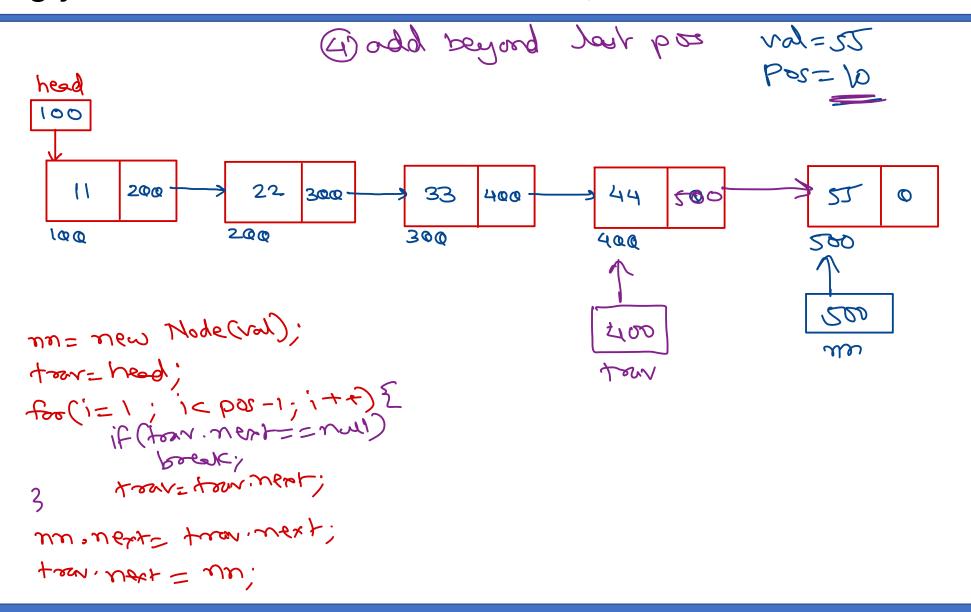
Singly Linear Linked List - MART POLL)





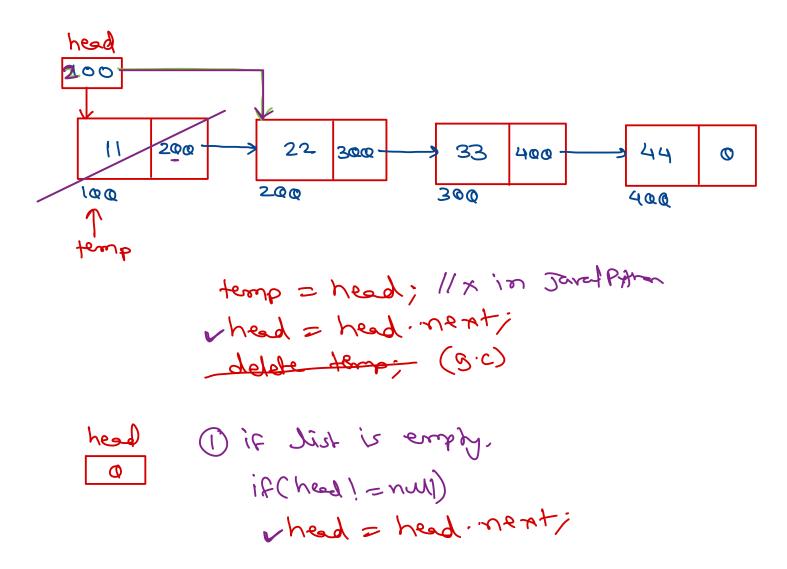
Singly Linear Linked List _ add At porc)





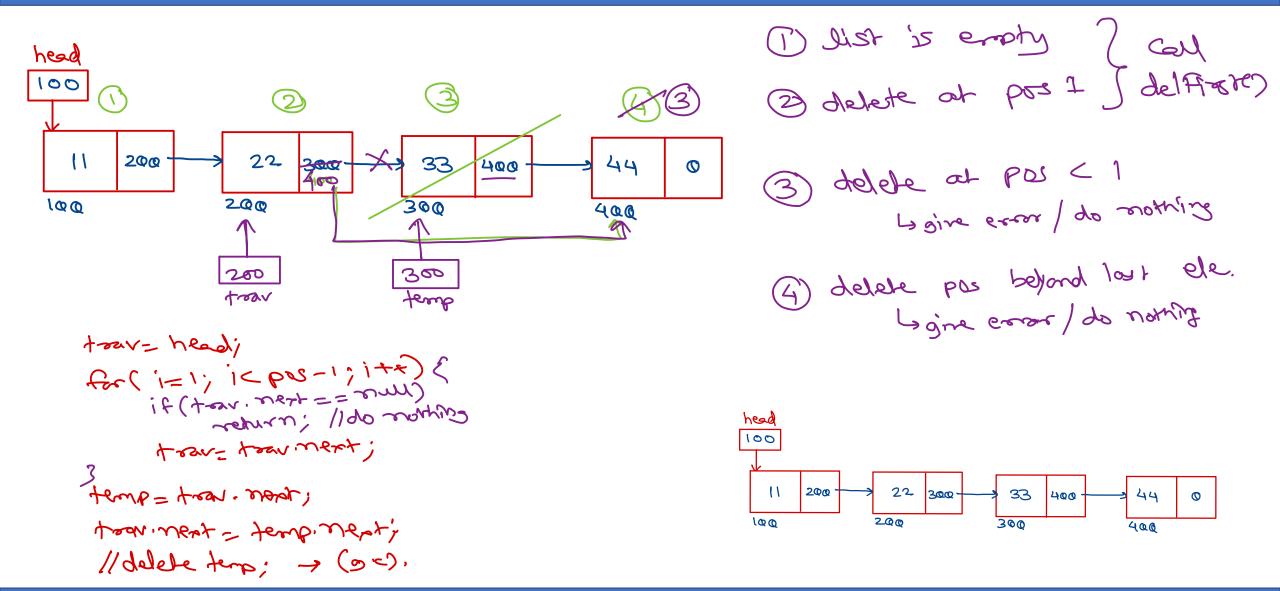


Singly Linear Linked List - del Floor ()



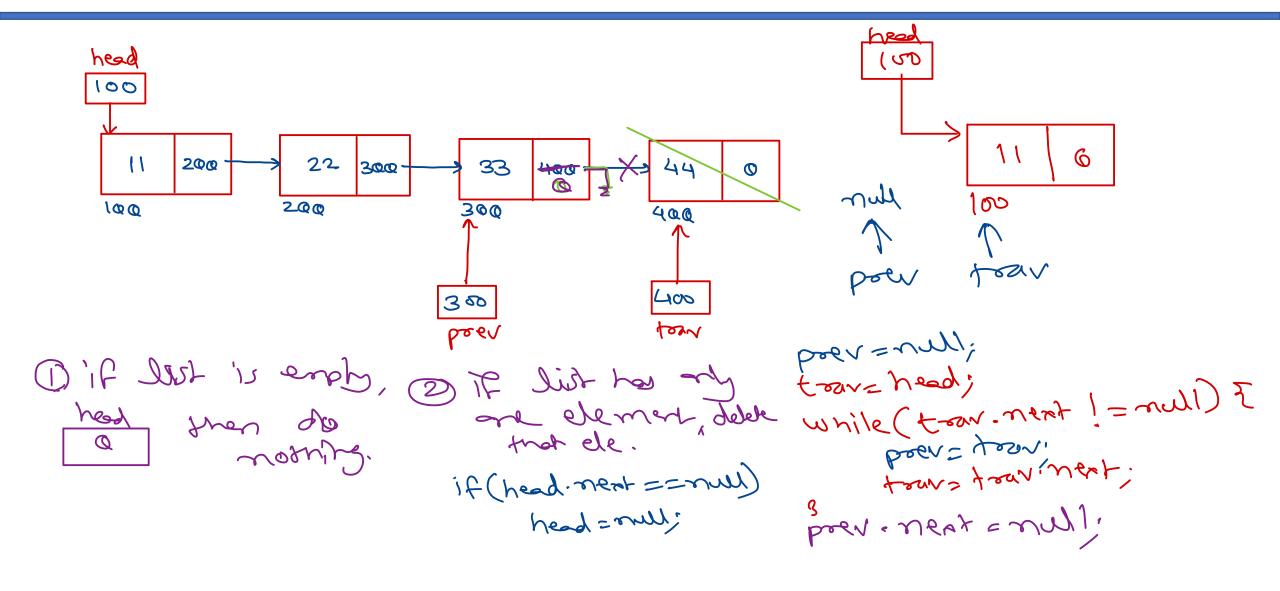


Singly Linear Linked List - del At Pos ()



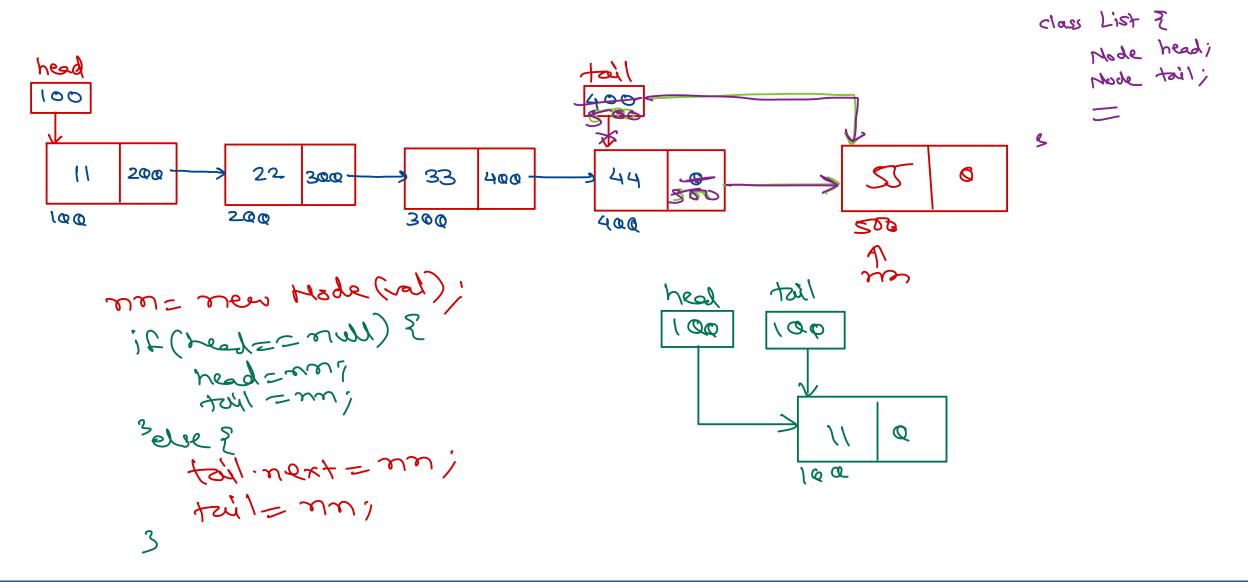


Singly Linear Linked List - dellast ()



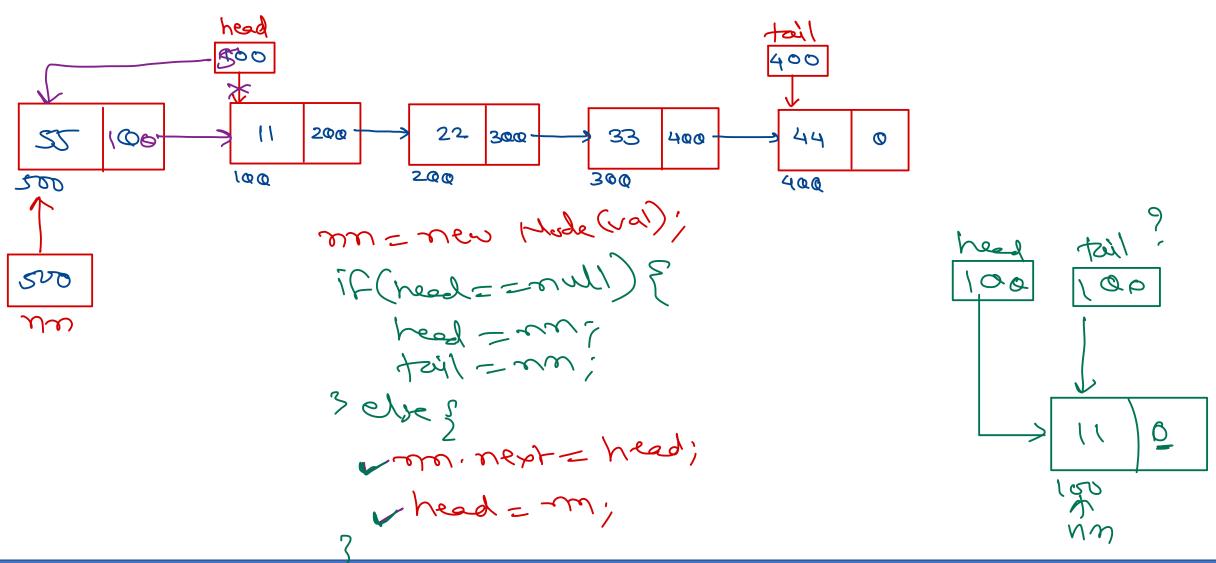


Singly Linear Linked List - and lost > o(i)



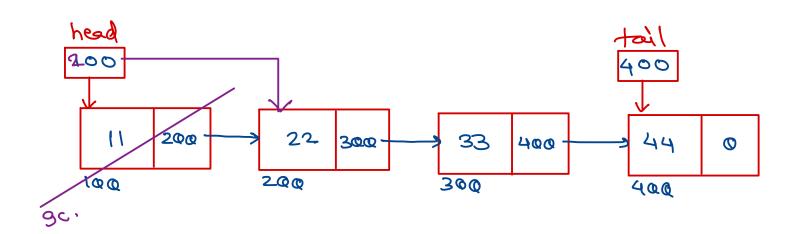


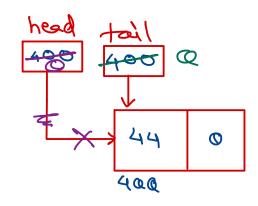
Singly Linear Linked List - add First () -> O(1)





Singly Linear Linked List - del Frot () - O()





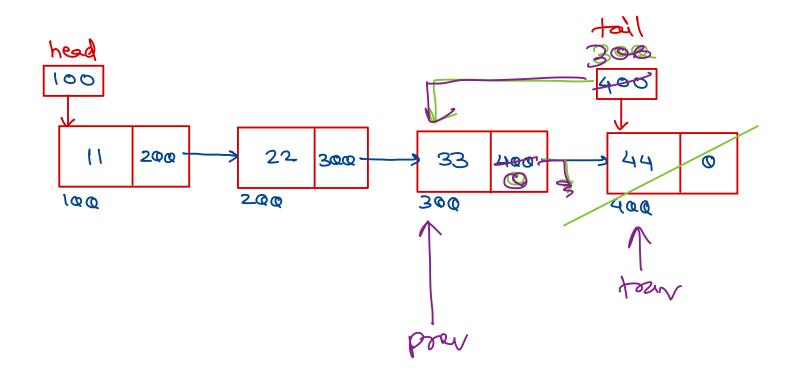
if (head != oull) = head toil
head = head. next;

if (head==nul) = deleted node wer

toil= nul;



Singly Linear Linked List - del Lost - o m





Stack / Queue using Linked List

- Stack can be implemented using linked list.
 - add first
 - delete first
 - is empty
- Queue can be implemented using linked list.
 - add last
 - delete first
 - is empty



Singly linear linked list with head & tail pointer

add First () \rightarrow 0 (1)

add Lost () \rightarrow 0 (1)

del First () \rightarrow 0 (1)

del Lost () \rightarrow 0(1)

add Flot(): 10,20,30,40 (1) 0 ← ~0(1) delFosto: Stack using linked lier (pun & pop done from save end-top) addrate): 10,20,30,40 >0(i) del FT07 ();



Thank you!

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