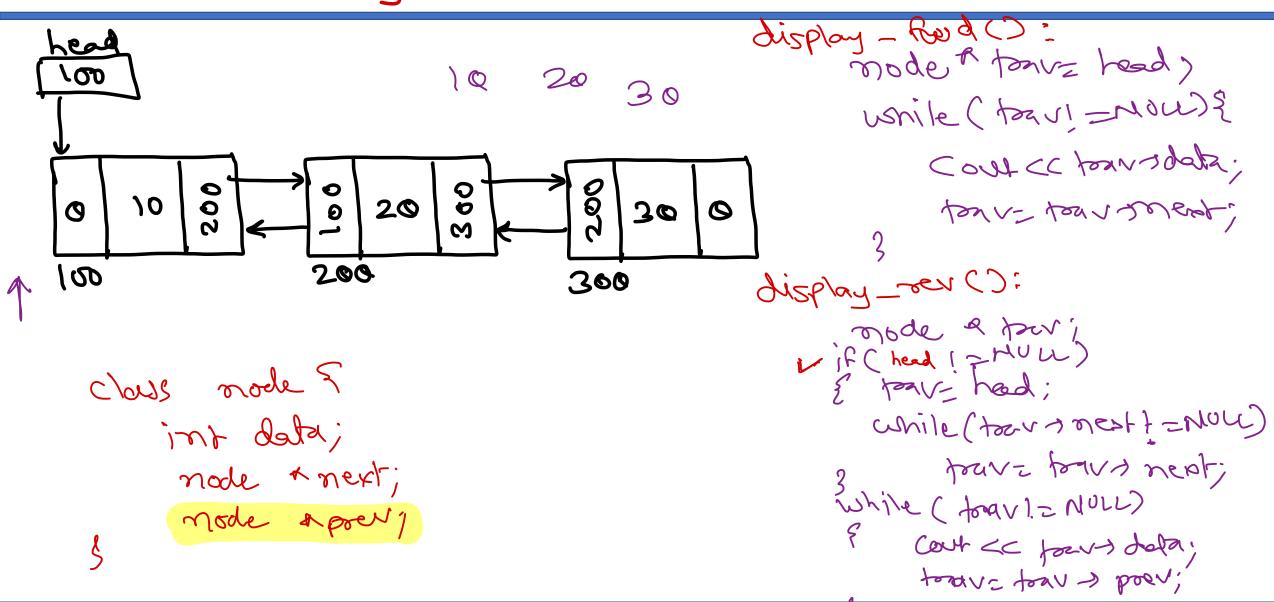


Data Structure & Algorithms

Sunbeam Infotech

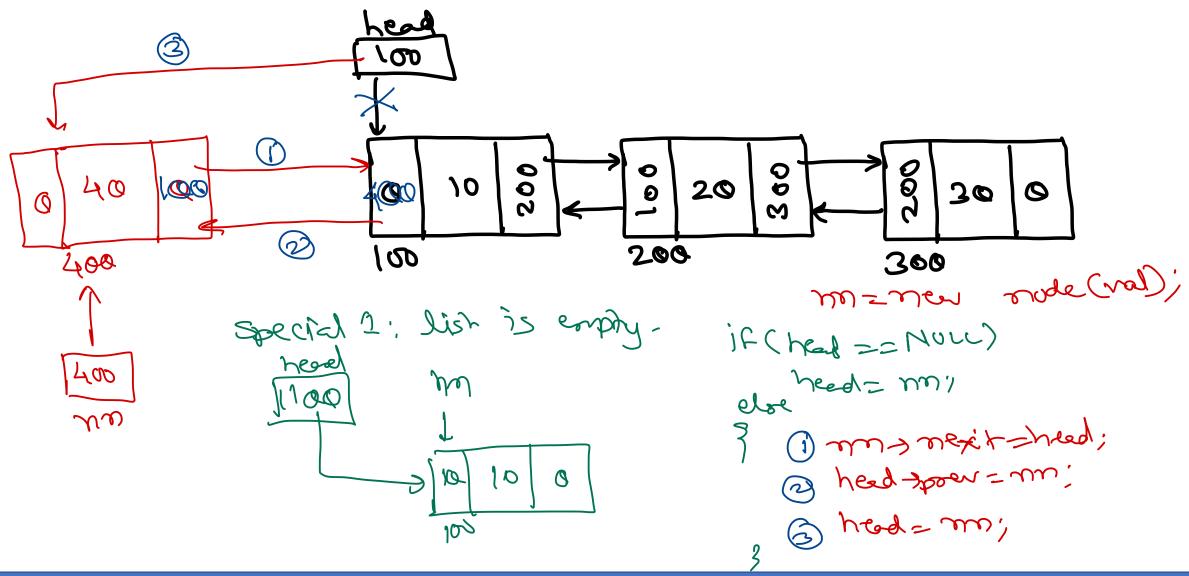


Linked List doubly linear linked list -> display()

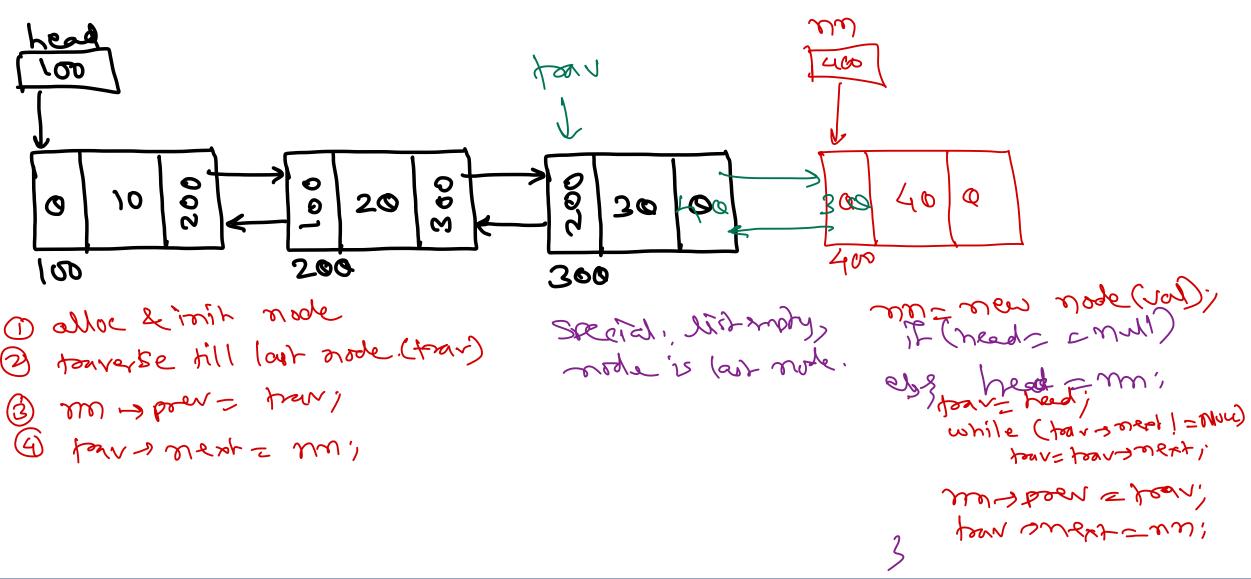




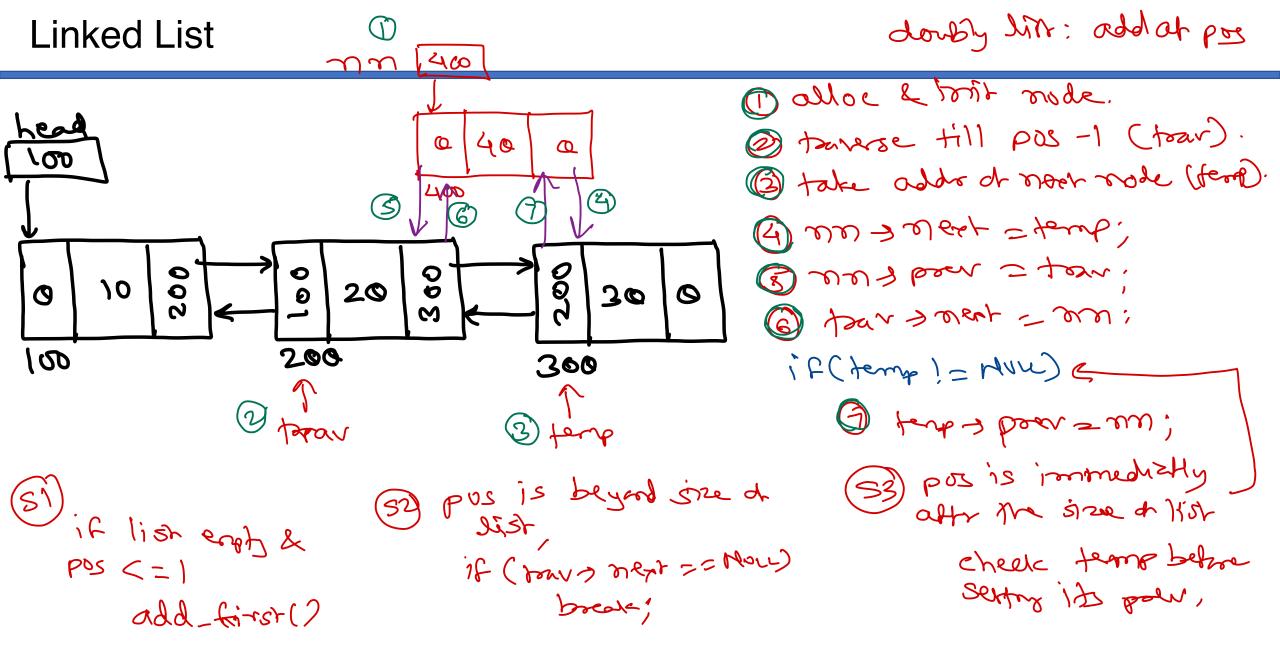
Linked List doubly linear list - add -frax.



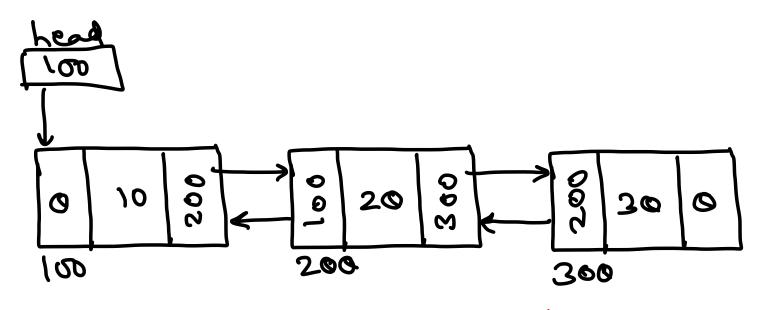












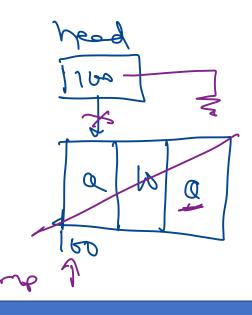
() take adde at Baharde.

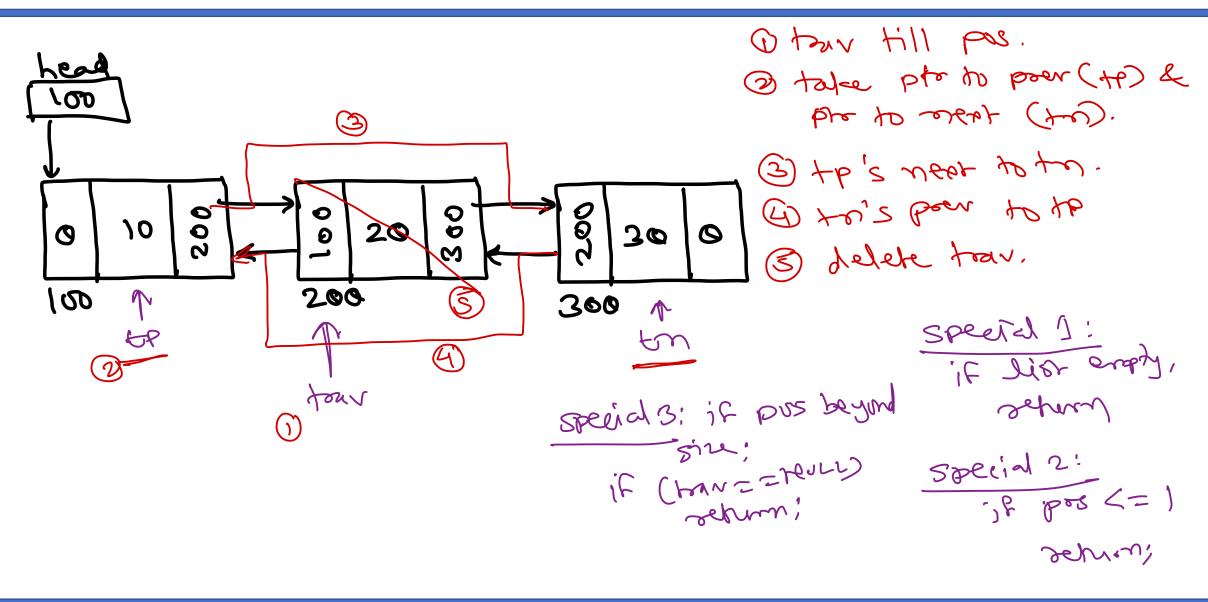
() take adde at Baharde.

3 delete temp node.

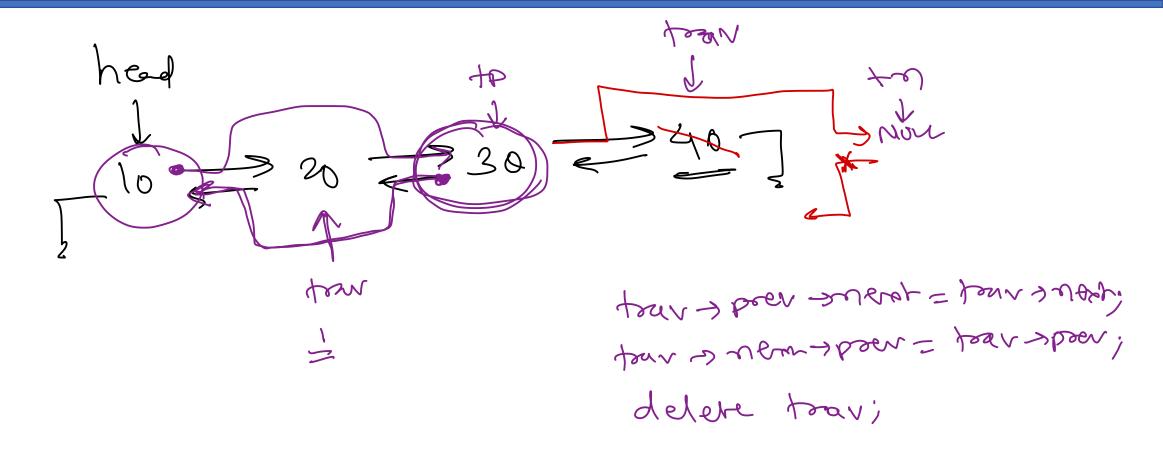
4 new head's poer

special 1: in list is compty, octurn; special 2: if (head!= Mull) head I prov= Mull;











clouss doubly_list {

mode & head; int cont; Public:

- 1) in ctor, cnt = a;
- @ in each add, cont++;
- @if each del,

Advantases:

- 1) list empty card: cnr==0.
- Theole lost posion add on posi
- 3) Cheek last pos in del at posi if (pos > cont) seturn:

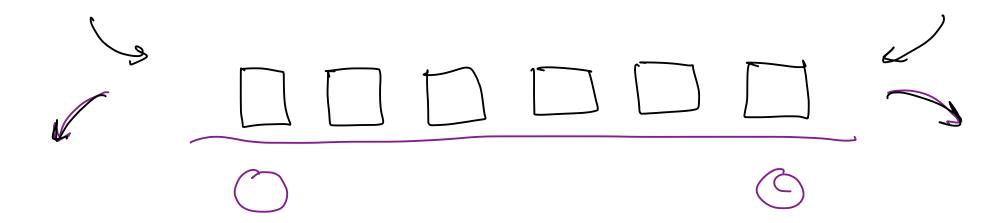
Loubly linear list: tail pointer.

[asism].

class doubly_1'in § Advantage: O add last; no need to bear tilled porvate: mode had; public: L> 0(1). del last: no need no tour till end. Ochre: 40(V) hed = MULL; tall - MULL: wid del_last()? if(tail 1=null) } if (read== tail) tempz tail; 9 delete had! treet=nuh; tail = tail > poor) s feel = null; delete temp; if (tai) 1 = nm1) 3 ser display vill tail & next = MOLL;

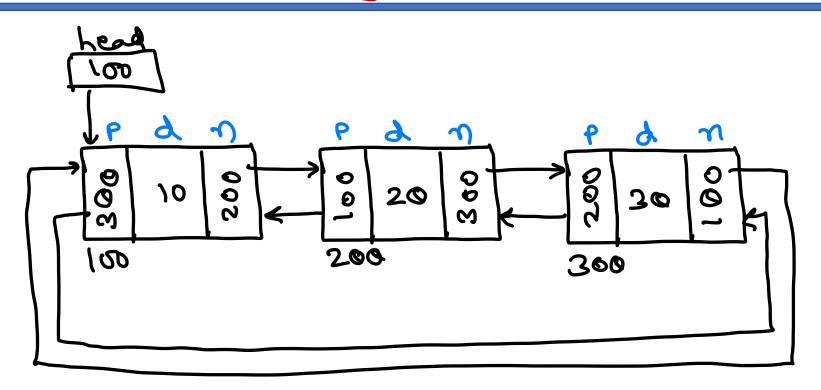


Double Ended queue using Linked List Linked List Canbe dose foron both ends In deque, push & pop should be O(D) Ideal time carplexity class deque 3 closs doubly-list & posoli. doubly-list di povale. node & heard public: puh-rear () owde & tail; public: pun-font () chr() bab - seare () add flood ()4 pop-front() add last 124 Jeh Bast 12 mond () del Gror ()c ~ 20 /00hcs del last (>= peck-from() 186mbgh) add at post ? / peck - sers ()) tel at pois? <u>del</u> al 1 (2





Linked List doubly checular linked list



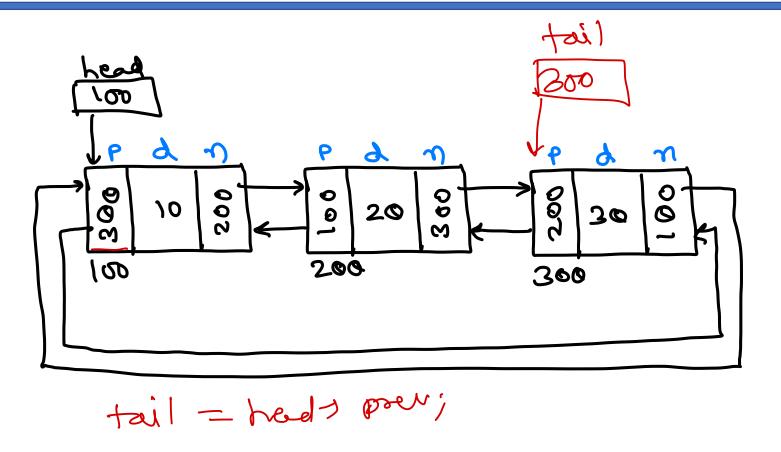
tour = red spour.

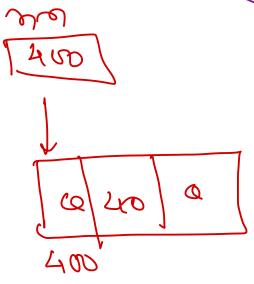
Jump to last-orde.



doubly circular linked liet -add last.







display () add form addian1) del Euse () del_100-()





Thank you!

Nilesh Ghule <nilesh@sunbeaminfo.com>

