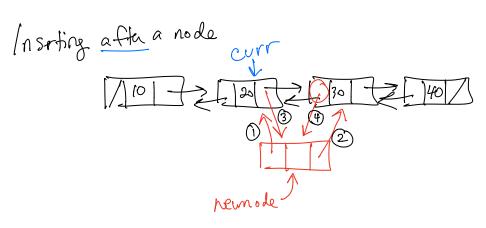


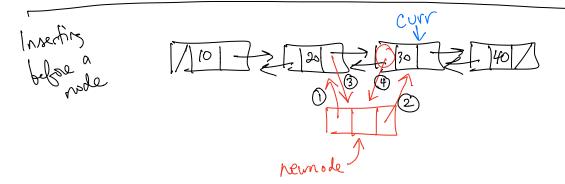
Traversals: going through the LL one element at a time. 11-pointer traversal Forward direction (left to right) (normally this is the for (int x=0; f> Node curr = (wherever you want to start traversity) while (Stopping andition) tail (normally cur! = null) Apocessing step with > 11 curr.data
Oxaple: Synkmout.println(ourr.data) Curr cur = corr. next; 2-pointer Node curr= head (or somewhare) Node prev = null while (curr = null) 1/ pocess curr. data - pay = prevnext?? prev=corr; < cur=cur.next;

INSERTING INTO A LL
inserting after a node nevnode
Node neunode= new Nodel);
neunode data = whatever
neunode.next = cur.next
curr.next = neumode prev curr
inserty bloc a node [10] > [20] > [30] > [40]
Node remode = new Node (); [25]
reunade. data = whatever reunade of
remode. rext = cur
prev. next = neurode
insert @ the beginning of a LL The
newnode.next = cum/head; prev? cur
-> herd = neunade;
Deletion 1017 10017 1301/ prev.next=cur.next prev curr
prev.next=curr.next prev curr
Deleting the head of a LL
head = head.next; head
head 1 - 1

Bis-oh of insert/delete
Most of the time, in set/delete are O(1)
* -> Takes time to traverse the list.
SLL w/ only a head pointer [] [] [] [] [] [] [] [] [] [] [] [] []
inset @ end = O(n) delete @ beginning = O(i) delete @ end = O(n)
In general: insert/detete = O(i) + O(traversal)
·SLL w/ both head + tail pointers I I I I I I I I I I I I I I I I I I I
insert @ bes-0(i) [head] toil]
delate Dend - O(n)
Doubly -linked -list "rext"
prev" Curr
class Node {
int data;
Node next; Node prev;
\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \



- newnode. prev = curr
- newnode. rext = curr. rext
- curr.next = newnode
- neurode. next. prev = neurode
- (4) curr.next.prev=neurode (3) curr.next=neurode



- newmode. prev = curr. prev
- neumale.next = corr
- curr. per, next= neurode
- CULL bren = hemorge



- (i) Curr. prev. next = curr. next
- curr.rest.prev = curr.prev

Deletim @ head or tail

The fect that a head of fine of the special cases.

if (curr. prev==null) // curr == head

if (curr. next == null) /if (curr == tail)

Bis-oh

insert/deleting @ head/fail - O(1)

in middle - O(1) + O(traversal)