

Today's agerda
6 Point linked list
4 inter in a linkedlist
4 delete in a linkedlist
La Reverse the linkedlist
4 Find mid
Li ployd cycle.

AlgoPrep

Inested class

```
Class Mode {

int val;

Mode next;

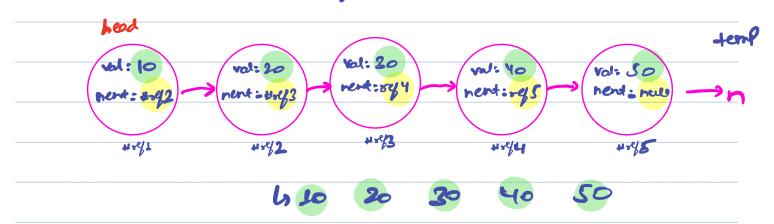
Node (int v) {

val : v1;
```



0) Point Linkedlist

6 Given head of the LL Print the elements.



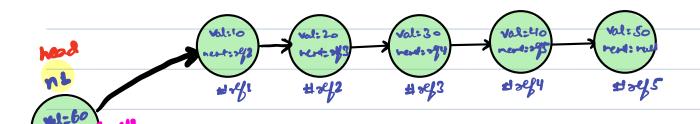
10 20 30 40 50

V _C	vid Pointlinkedlist (Mode head) { Node temp: head;
T.C: 0(N)	
S.c. 0(1)	while Ctemp!= null) {
	S.o.p (temp.val);
	S.o.p (temp.val); temp: temp.ment;
	3
)



a) insert in a linkedlist

Uninters at head



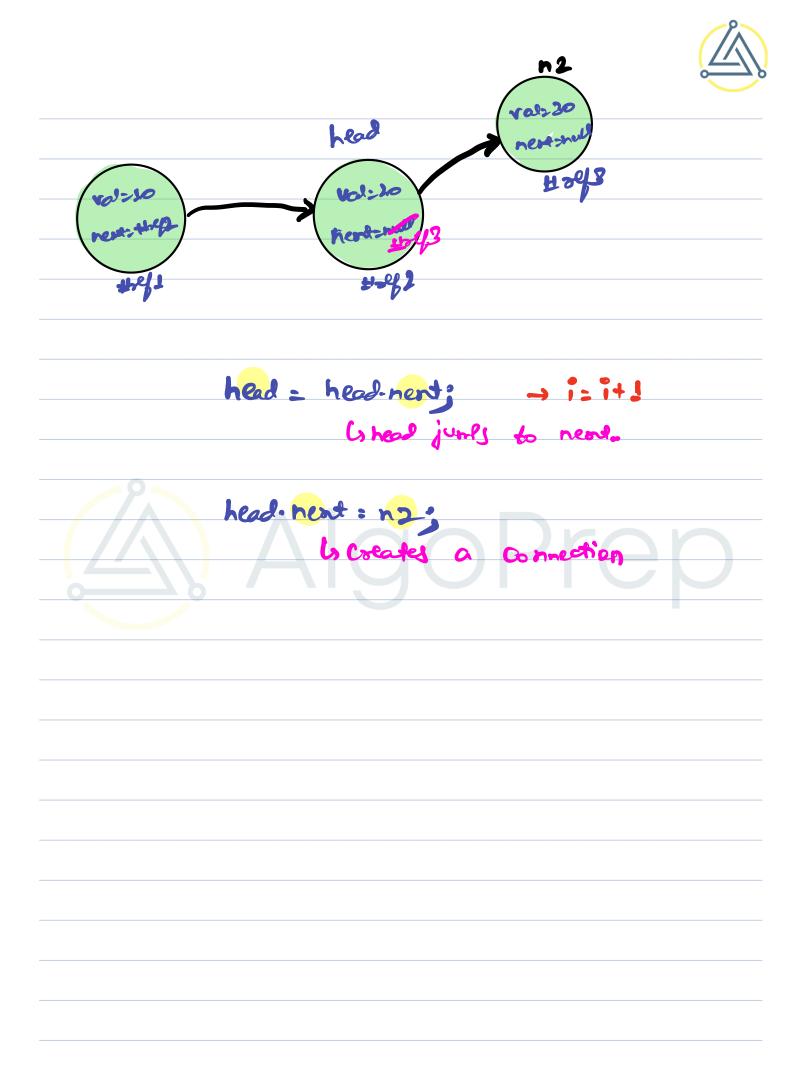
void insurthead (mode head, int v) {

Mode ne : new Mode (v);

T.C: O(1) h1. nent: head;

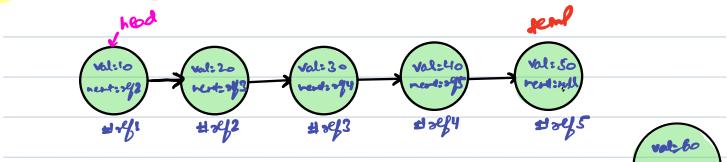
S.c: O(1) head = n1;

3







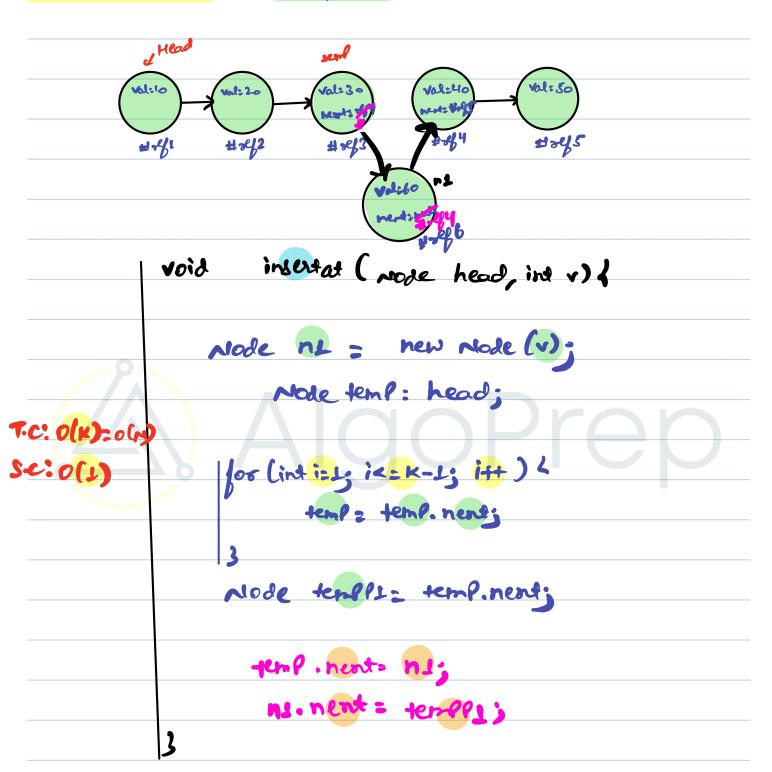


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void instratend (mode head, int v) {
Mode ne : new Mode (v);
Node teme: head; While Ctemenessernull)
temp: temp, next;
tempo nent = n19



"insert at inden -> K=3, v=60

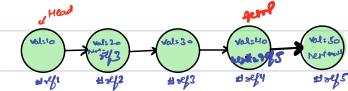




0) Pelete in a linkedlist + delete Hood मन्पुड # ३६९४ म श्री 3 मन्दी2 gortoge collector b head: head nend; 7.C: 0(1) S-c: 0(1)







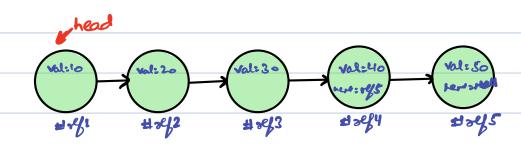
	oid deletelast (mode head) {
	Node temp: head;
c: 0(h)	while Comp. nent. nent!=nul)4
·c: o(1)	Kml: temp. nend;
	AlgoPrep
	temp. next = null;
3	

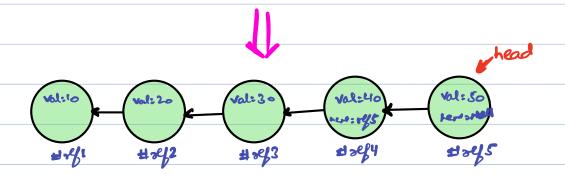
sedge Calls +

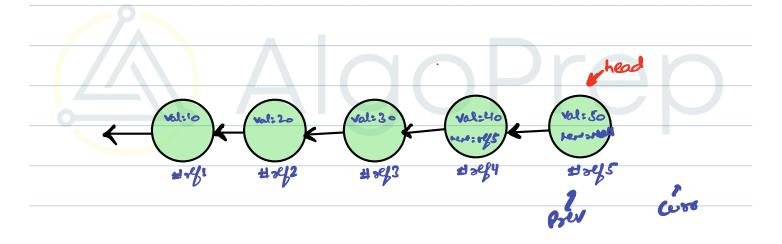
Break till 10:25 Pm



a) Revuse a linkellist







Mode Prov: null;

T.C. O(N)	Node currell= currell;
Se: ou)	Curr. next: Prev?
	Prev= Curr;
	Curo: Curofi;
	1

head: Previ



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Ale	IOP	re	
			Δ1;