

		0 1 /	DATE	
	int count K Fro	m Last (	Node * & read	,
	sot	Lount,	in K) L	
	il (head = = N	[[][]	4+ 3/2	
	if (head== N return O	,	the real	VEON IN
		10 -	1 1-(1)	<i>t</i> 11
	int cnt = co	urt K From	mast head ->	next, cnt, 1
			BULL	
	il (ent ==	k)	de (d-)	de la
	if Cent == cont	K head-	-> data;	
	1 :	3/17/		
	] return cont;	Car-	the service	
		During - 1	Last - Jan	
	H. Hongiem, Se	k=2	2	10
	3 - 5 - 5 21 21	A -	1 1	1
	temp temp tem	+	tame temp	temp
- E	temp temp tem	p remp	3	NUIL
0	0110011	1	1 Social	
Q	Detect & Delete	Loop		
34.5	head		0	1
	$0 \rightarrow 0 \rightarrow 0$	)Q	Lead House	9
	(D) (D) + + / (		7	
	1) Detect Loop Delete Loop		The state of the s	
	- Cure Roup	THE PL		BILLIE
	classmate		PAG	E

Techniques

(1) Use map to store address

if some address found again

1) loop Det Modify given nodes

if modification found

Soop. Sundal-Sundari Lycle Detection Algorithm Sundal-Sundali
Detection Alogethm

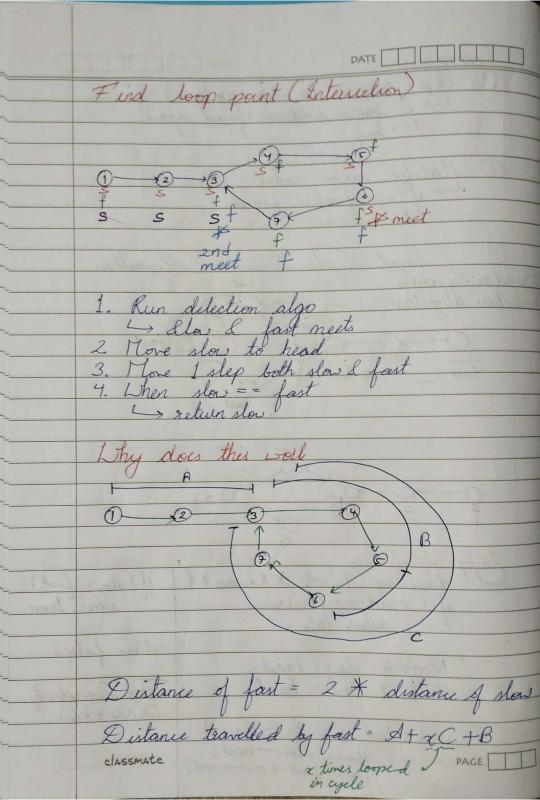
Slow Slow Slow Slow Slow Fast

Fast

Fast o o o o s of s f Loop Detection
bool delect Loop (Node \* Chead)
if (head = NULL)
return false; if (slow = fest) return trui return false; Node \* slov = head; Node \* fast = head; Time Complexity O(n/2 + k/2) while (fast && fast -> next)

classmate slow = slow -> next;

fast = fast -> next -> next; PAGE



	Man and the second seco
	DATE
	Dist of slow - 2A +2B+yC
	The state of the s
	A+B+xC = 2A+3B+yC
	ZC-yC = A+B
	$(\alpha - y) C = A + B$
	=> A+B == k *C
	$\Rightarrow A + B \Rightarrow = k * C$ $\Rightarrow A = kC - B \Rightarrow head \mapsto interction 2$ $= equals$
	= equals
	= equals Pelite Loop intersection 1 + intersection 2
	the state of the s
	temp=intersection
	temp 2 = intersection
	Shile (temp2 - nent! - temp)
	temp 2 = temp 2 - rent;
	temp 2 -> next = NULL;
	Node * delecthoop(Node * ) !
	( )
	- Apma as helde
7	= same as before
	if (slov = = fast) return slov,
	return sla
	return NUL!
	1 5 5 5 5 6 6 7 9 9
	Walley Land Land
	The second secon
	Committee of the commit
	classmate

if (head== NULL) return falm; God detect And Deletehory (Node \* & head) [ Node \* fast = head ideted Loop (head);
Node \* fast = head;
while (fast != slow) {
 slaw = sol slow - next;
 fast = fast -> next;
} Node \* begin = slori Node \* temp = begin; Shile (temp-) rest ! - begin). temp next = NULL
return time; 4/W Intersation Paint of LL (4 Approaches) HID Flatten of LL Coeumia HP 9-9-9-0 OP classmate

	DATE	
4/12	Remove Duplicate from sorted funsorted Add I to LL	
MIN	Add 24L	
HIW HIW	Pelete m nodes after n nodes. Revisa atternate & nodes.	
0	Thy is is quick sort preferred for arrays and why merge sort is preferred for LL?	
	classmate	