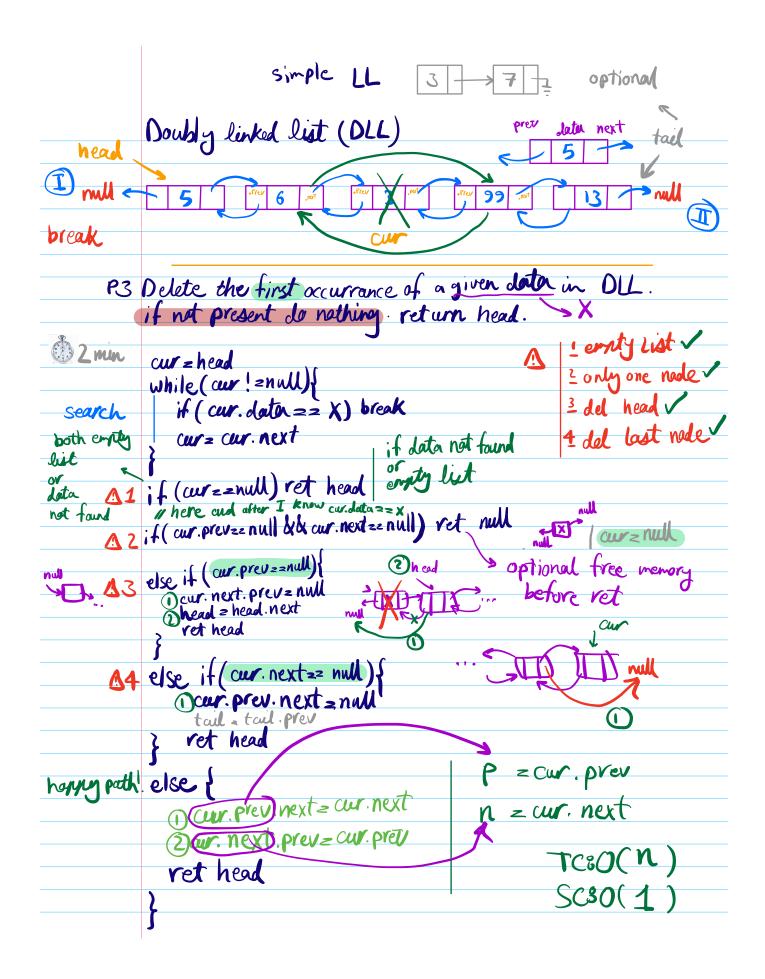
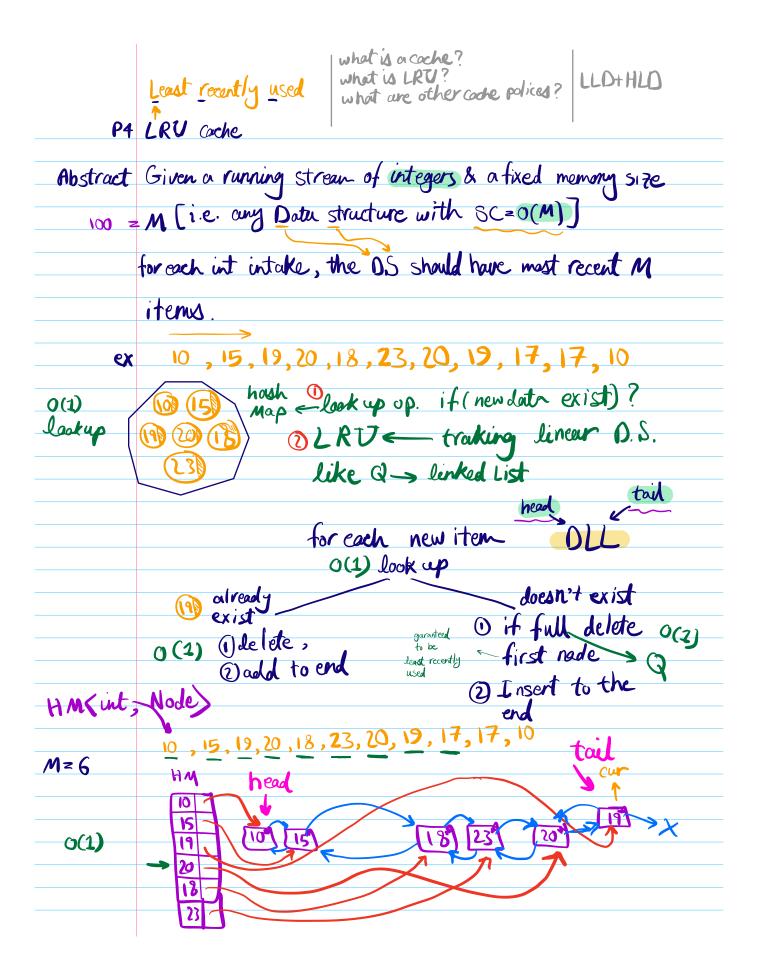
	} (1) Palindrom?
	2 largest palindrom
	3 Douby linked List
	to DLL adding 3 Douby linked List
	basics, Abstrate 5 LRV cache
P1	check if a given linked list is palindrom. 5080(1)
	x do not
ex	1 -> 5 -> 5 -> 1 -> 5 -> 1 miles = False -> 0
ex	1-3-3-1-null aus=true
ideas?	→ → → → 3←I
2 min	1/3/5/3/1 going one back is costly in single LL
O(u) <	1) find the midle of array & split from midle
0(n)<	2) reverse the 2nd half
+	
0(N)←	3 Compare rades tobe
Tc20(3n)	or one is null strue fix
- ((u)	
= 0(n)	- a Hill core Lauli) *
SC:0(1)	while (cursidater! = cursidater) ret false;
	cur1 = cur1 : next; optional fix, revert
	2 and mot
	the optional
	rot true, tix(){ state
	- reveke 2nd half
	again
	- Connect then again
	I a sulare of all
	len case
	}

even? your assignment

	and the state of t		
P	find the langth of the	e langest odd length palindromic	
		« c » n(1)	
	list in the given linked	list. do not carry!	
ex	1->2->1->1->1->		
(P)		Sans=5	
2 min			
	(1211222		
idea 1	1,2,1,1,1,2,3,2		
	for 120->n-1		
$-0(N_3)$	for j=1 -> n-1	in order drawn) - O(N)	
	cheek (ali-J)	is palindrom) O(n)	
idea 2	strarting from midle a	and try to expand	
ode'and	11.		
strings	TC of expanding = n	overall $o(n^2) \leftarrow optimized$	
	Novt	•	
	× ← 1 → 2 → 1 → 1 →	1-2-3-2-null	
very simi	or previour		
to reurse	next = null	int expand(prev, next) { next	
	prev = null	X= prev y=next xx > o(n)	
	cur = head	Jan 2 0	
ang	while(cur!=nnll){	while (X!=null && Y!=null)	
1	next = cur. next	if (X. data = 2 Y. data) lent	
_3	len = expand (Prev, next)	else break	
	and = Max (and, len)	X = X next	
	cur.next = prev	y z y, next	
	frev = cur	ret 2*len+1	
	cur 2 next	>	
	}	LC30(Ns)	
reverses/1/7	ret ans	SC: 0(1)	
	ret ans	S-0 0(2)	





3 letters
aba a b o(n) abacb
aaab.,,aaa.C.,, bC
$\frac{n_2 \cdot n_1}{\alpha \alpha \alpha \cdots \beta \dots \alpha \alpha \alpha} = \frac{0}{n_2 \cdot n_2} = \frac{0}{0} = \frac{0}{n_3}$
abc finding largest palindrom
> Shosh map O(n²)
OP