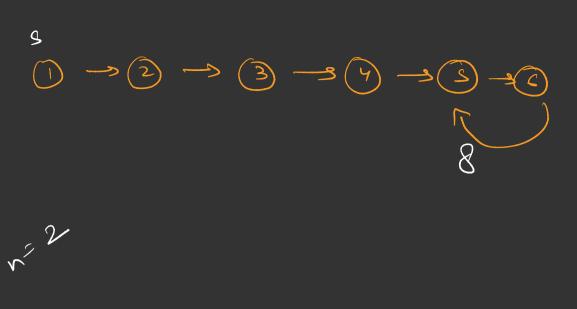
Ques Detect if there is a cycle in LL has Cycle () { Slow = had while (fast!=noll && Bast next ! = noll) 2 slow = slow next; gast = gast next next; if (fast = = slow)
return true; metwen false; Ques Length of cycle int c=1; Slow = Slow Next; while (slow!= gast) & slow = slow nexts

c++;

3

neturn count;

Ques Find starting point of the cycle head distance travelled by = 2 x distance travelled by s $m + (i \times n) + k = 2 \times (m + (j \times n) + k)$ M + in + k = xm + 2jn + xkM+k = (i - 2j)nm+R = gactor of n = M = CN - Rs = head while(s!=8) { s = s. next; & = 8. next;



1) Singly LL (1) -> (2) -> (3) -> (4)

2) Circular LL (1) -> (2) -> (3) -> (4)

Types of Linked List

3 Doubly LL (1 = 2 = 3) = 5(4) -s not)

class Node &

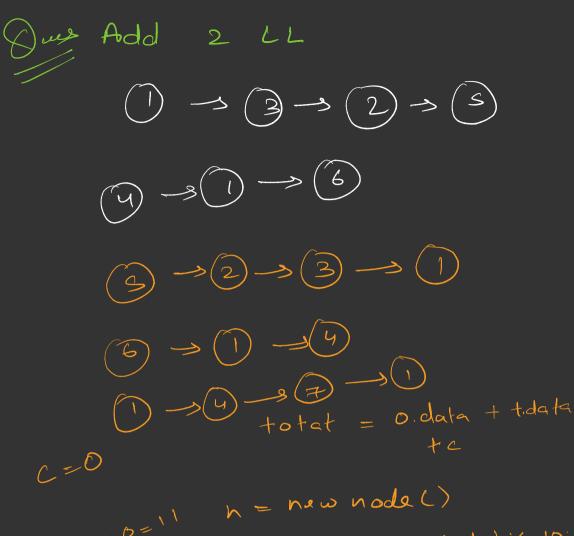
int data;

Node next;

Node peev;

3

Node 2 int date; Node next; b = 3 he ad (1) -3 (2) -3 (3) -3 (3) -3 (3) -3 (3) (3) -3(2) -3(1) -3(6) -3(3) -3(4) -3(7) ereverse knodes (Node n, intk) & (1) -> (2) -> (3) -> (9) -> (S) 3 ->2 ->0 -> (3)



c = total/10