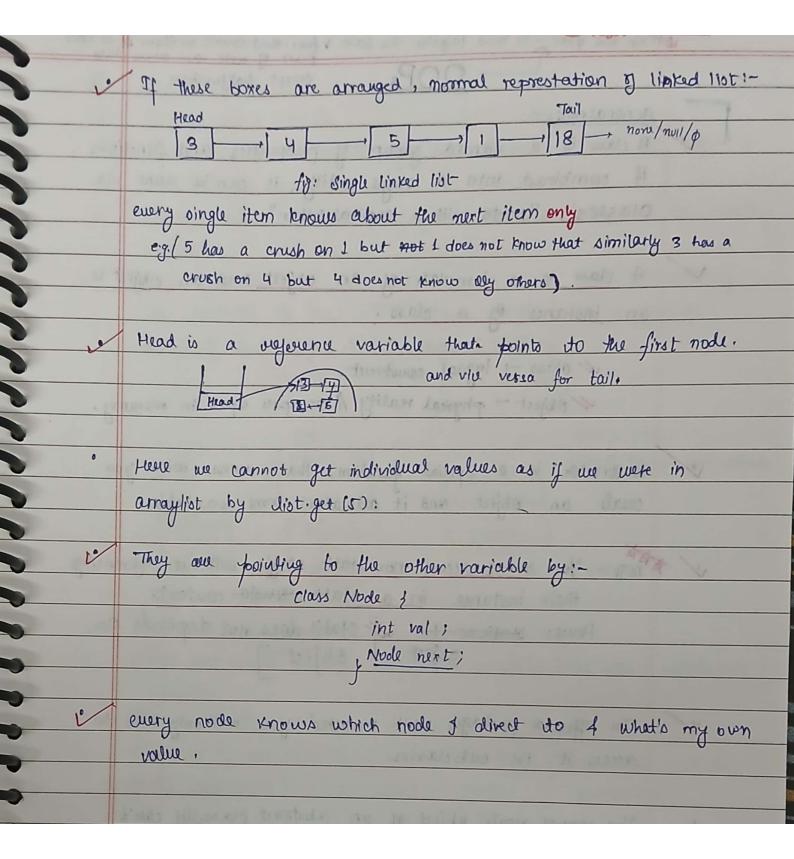
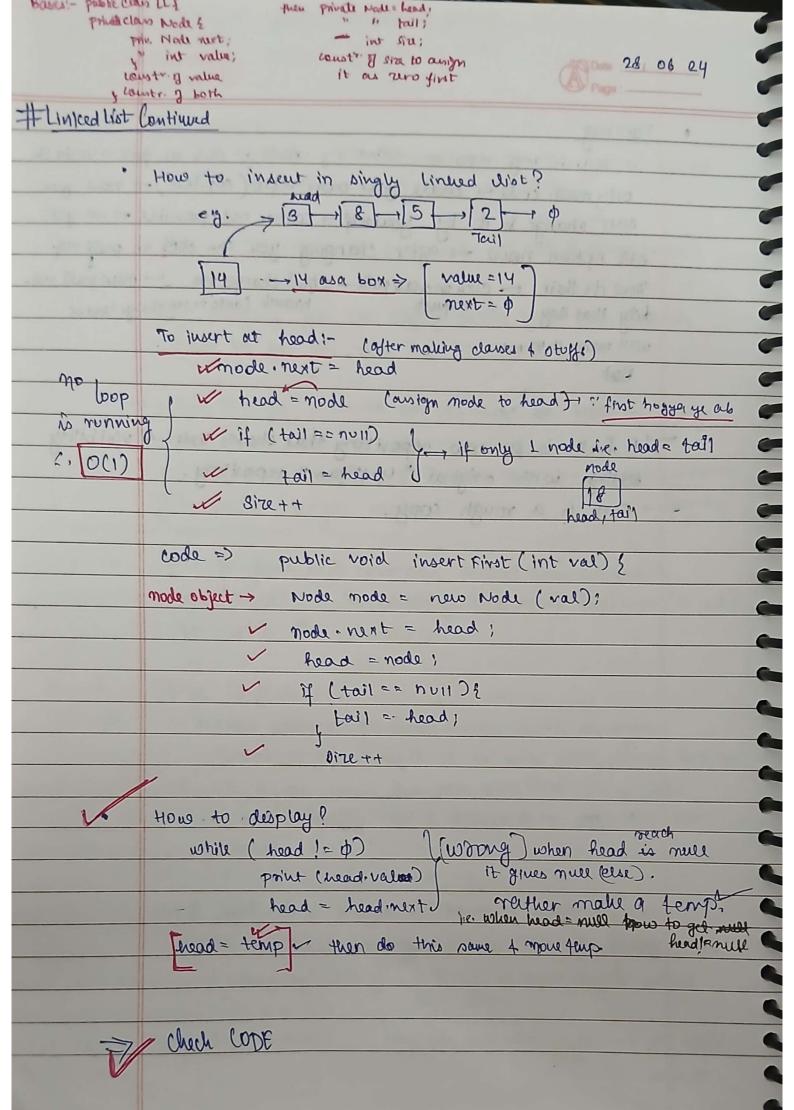
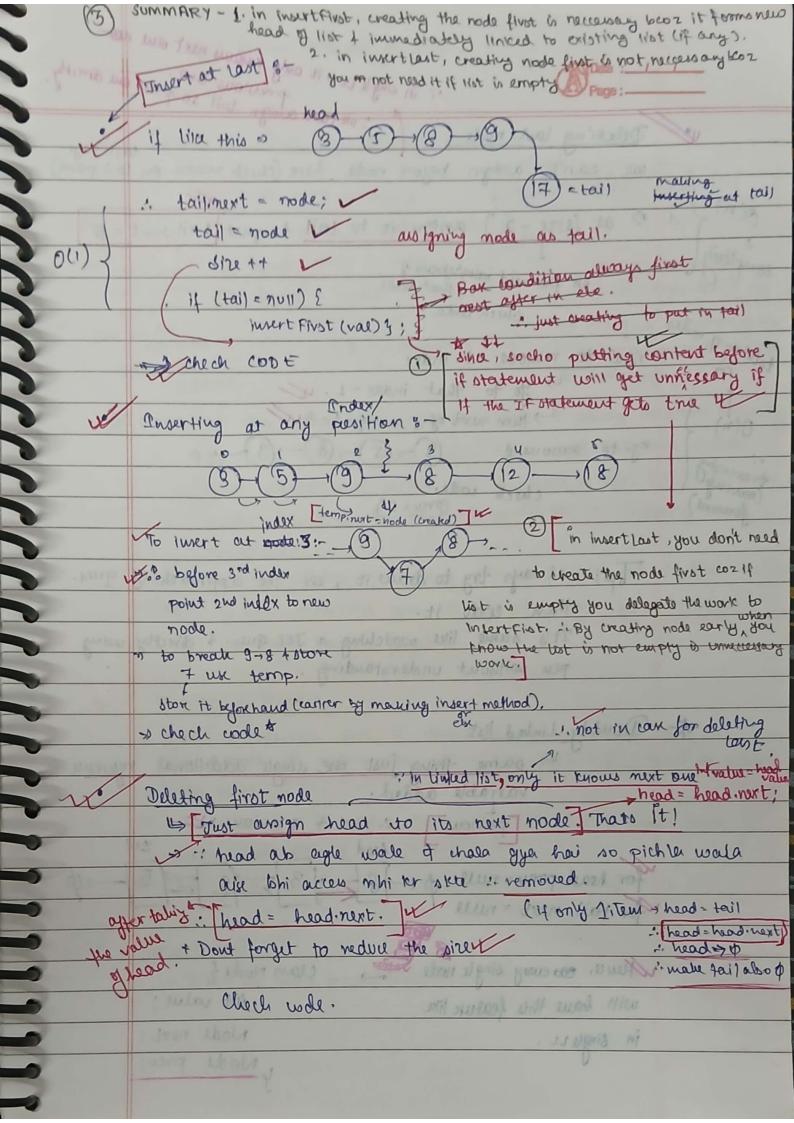
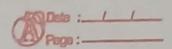
#Linked list Limitations of arrays: Size of array is fixed at time of creation, if you need more space then you we arrayllot Ust & create a new larger array + copy the data over i.e. timewhereas, linked list are dynamic can grow or Shrink In size as needed. Time complexity of Arrays: O(n). " Linkadlist: O(1). As arrays have couts memory allocation it is resolved regardless of actual usage this can lead to wasted memory if not fully utilized. Whereas, memory is allocated as needed in L. L. must be created, and existing elements must be copied over, i.e. O(n) operation. Fearlier one are removed \* Working of a linked list !-Here all the values or (boxus as in grarrays) are connected each other with a pointer (not pointers of clauguage) but avoious reflecting reference variables (soy), thet do not home any indices they are randomly stored (but connected) in Heap memory.

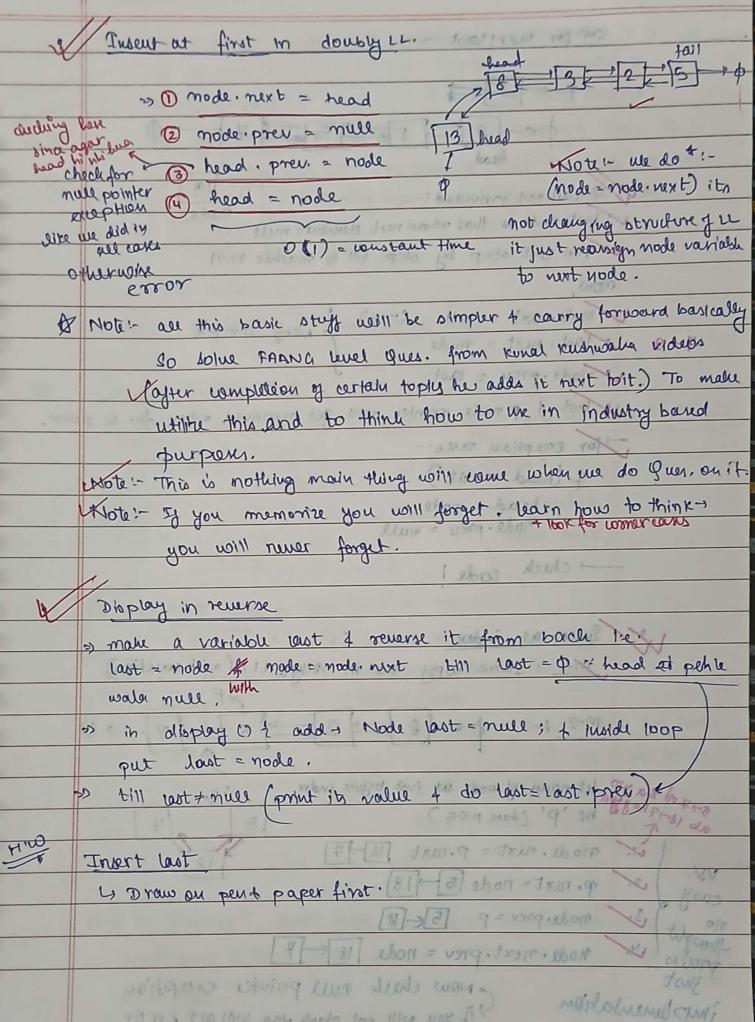




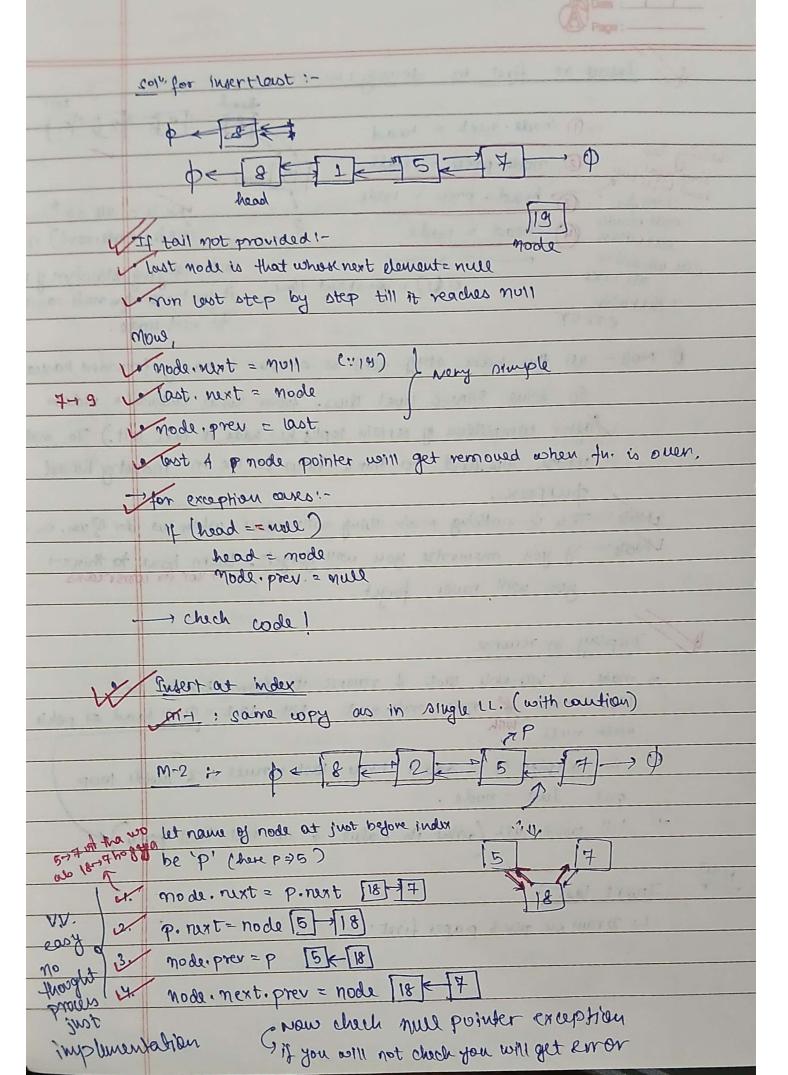


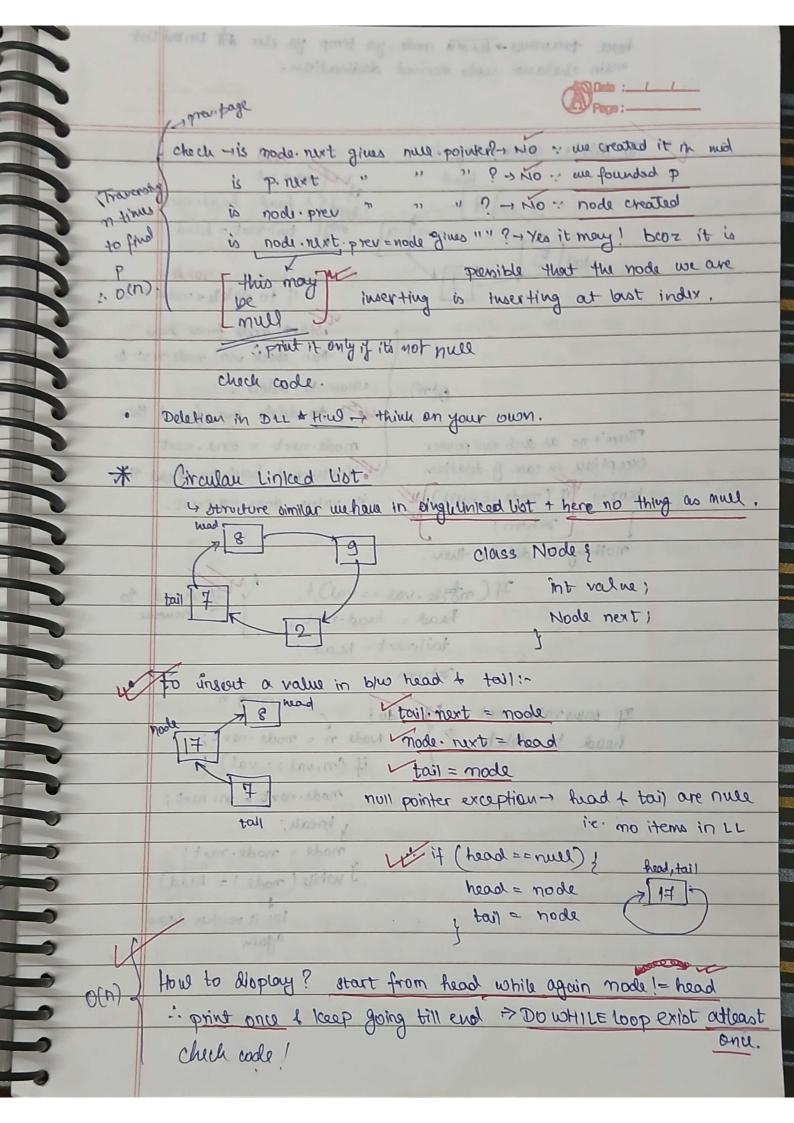
.. in sing le LL - it only knows next one nonprevious one. on directly Deleting last node can't assign before node here (chech reason on lest para) at (size -2) assign it to tail + put tail next = \$ We first need value/represent of . chich code now to remove at index 4 go to that index -1.4 then next of 5 amign to gul eg. to remove & forward) Tip: - always try to draw it, see the approach of ques. then code it. It's same like wootching a JEE Ques. 4 directly using pen without understanding Doubly Linked list - same thing just one single additional variable added. in next & previous, & or head prev=null or tail next = null fund, es every single node class Node & int value; will have this feature like Node next 1 in single LL. 4 Node prev)





TO THE TOP THEN MAP NOOD JON 111CO MOK JIC





have traverse - Hid ma mode, you temp you also the Linked List mein chalana upto derived destination. To delete something :-1. head = head next tail next a head random if to delete , value = 1 Start mode from head then check via mode next to whom to delete. O(n) west to delete one found they mode, next = end, next There's no as such null pointer "if returned back to head then exception in care of deletion its value does not exist. if ( node == null) | return; nothing to delete them. If ( no de val == val) } head = head next; I war would tail.next = head; setum; If somerales not by Node n = node next; head to delete if (m, val == val) } mode next = n. next; 4 break; mas mode = mode, next; I while ( mode ! = head ) i trii it reaches head ageur

" when does "