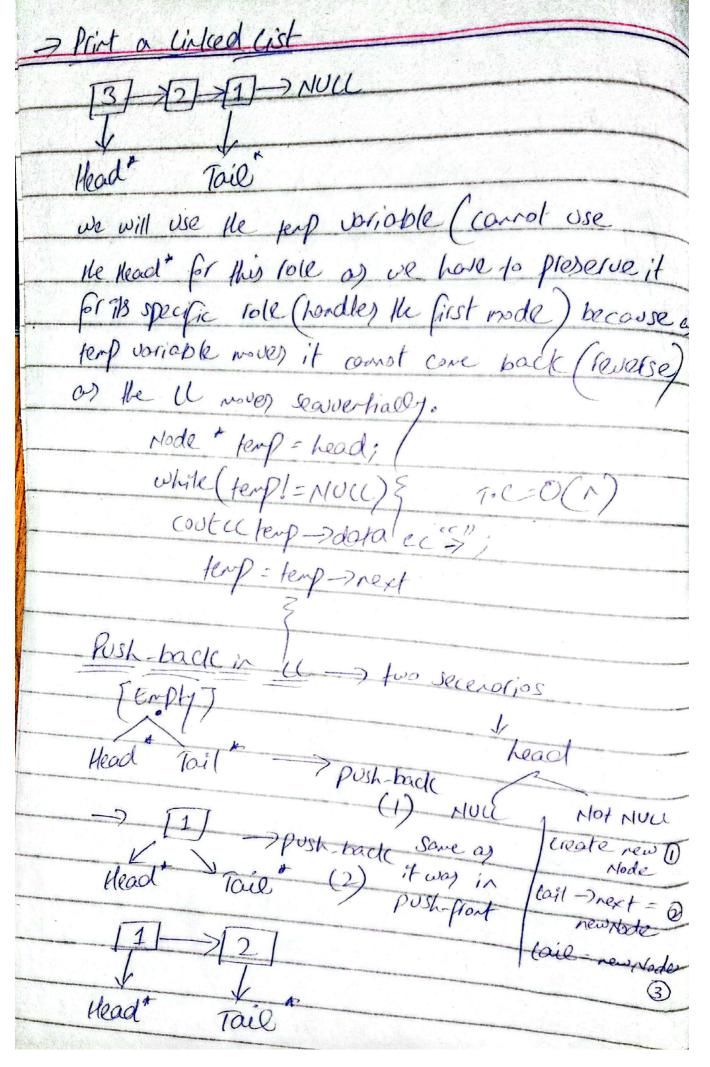
Linked list -> linear Data Structure < · Corplete Intorial Data Structure (Uniave) "Hode) are connected with each other in the form of choir" Difference Linked List Alloys Vectors Not cortiques Corligious (onliquous) Dynamic Not Oylanic Linked list Data (Irtifloot etc Off (store, address Mode 200 100 Data2 Data 3 pota1 DIF=300 HULL DIT=200 Tail " Head Cost Hode First Mode Doirter We connot access linked list elevents like -linked list[], but it can be accessed Using the Head points. > T.C(1) Not possible Possible in the the Cincol Linked list List

Inplementation of UnkedCist
naking LL Mode Nade # doto Susate (intele) STL Scratch 1-> Linked Cist 3)- NULL Tail Creating the Made class Node } int data; This is the code for the Mode next; specific rode creation, so every rode is the object of Mode (intual) data = val; this class (in technical ferm). next = NULL; Here we need another class to cover all those objects roods which is linked, Creating the list (linked) class list } Mode Head; Mode Tail; Now, this class list Public will cover and the List () { objects forlads collection Hedd, tail = MULL;

Functions of cinked cist
Opush-Grant (Adds the solve for the first)
(2) push back (Adds the Hode or the back) pop-front (Remarks the Hode or pop-back (Remarks the Hode Explaination: > push front forction - two scenarios head Not NULL NUCC a create Gest rewa rewrode rest = head pushfront(2) rewrode Head Head Tail " Mode + rew Mode = new Mode (val) this make the code if (head == HULL) } head = tail = rewrlode; will also be awiloble in Telur; FOCSOCI, else 3 rewrode ->rext = head; head = new Mode;



void push-back (int val)} rlade * rew rlade = new rlade (val); if (head == HULL) } head = pail = new Mode; 3 tail= rew Hode; > pop fart & pop back Tail Head if (Lead == NUCL) {
refuir }

Node * temp = Lead head = head-mext tenf-reft= NUCL delete terf 10° 00' delete toil; tait=terp; TC=O(n)

