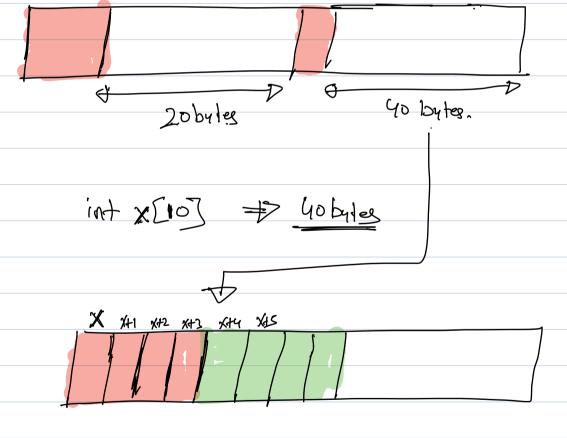
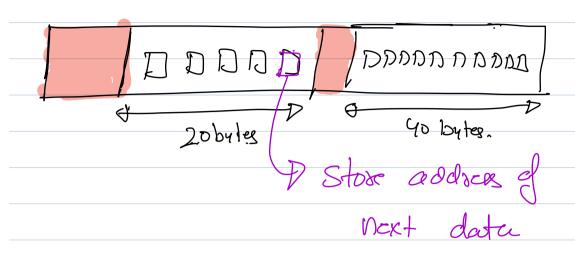
CLASS -> Costom Data type
P Roll no 3 - Student Name Name
int x = 10
Class Stodent L
Student yash = new Student();
int roll-no;
String name; Object
Stodent (Int 8 Cah. roll-no => 33;
Stockent (1948) Straing 11 Strain
Yoll no => 8;
name = Dn;
Student year = new Student (33, "Yah Ra")
new Student (33, "Yah Ry")
yach John = 33 yach Stodent rahul = yach. = "Yon Ry"

Shortic Arrays Disadventage Advantages D' No delection position, Disadventage D' No delection position, Disadventage Disadventage Disadventage Disadventage Disadventage Disadventage Disadventage Disadventage



Dynamic Array	
Advantages	Discoverige.
j) O(i) access	1) Memory is not utilize
2) O(i) inscribing. 3) Size can be changed.	optimally.



Linderd list PNULL Data 2) at a nex+ Nex-1 head tail class Node & next Node int data; Node nert. Node (int d) L data = d next = noll

3 3

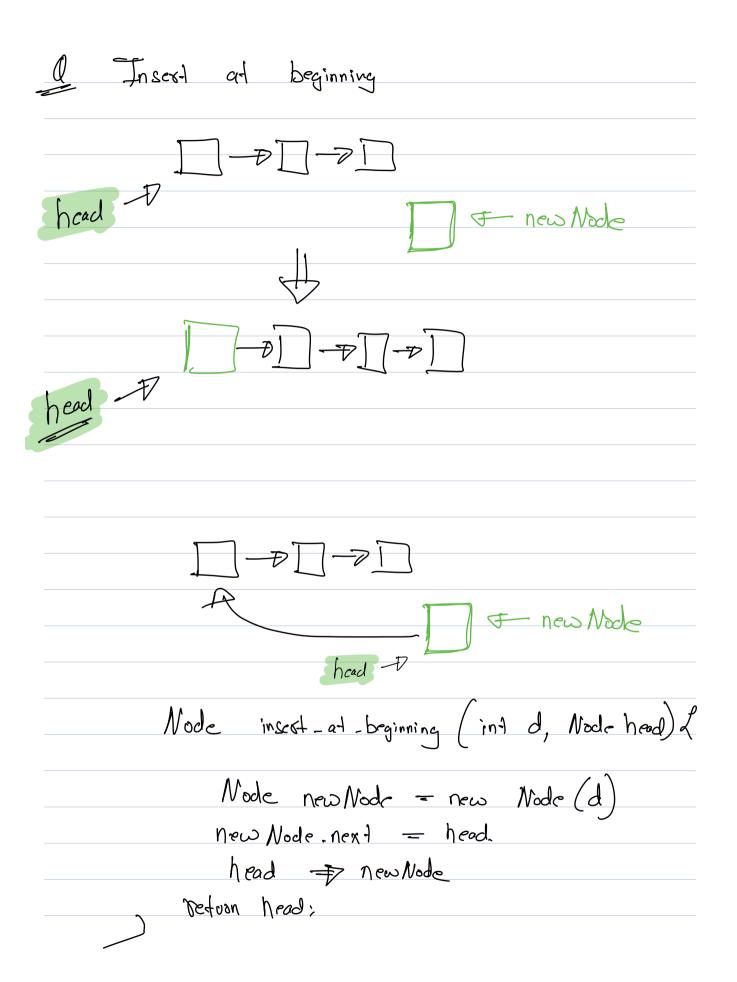
Inserts a node at the end of a Impard Isol. Dond new Node Node insert at end (int data, Node head) Node new Node = new Node (data) if (head == null) &

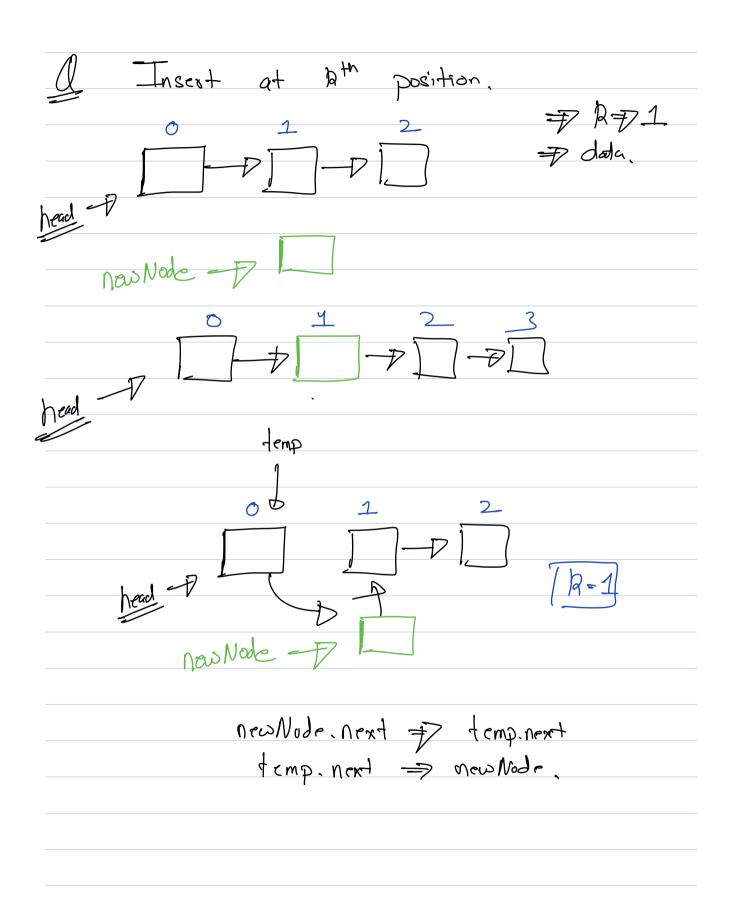
head = new Node;

return hand Node temp = head; While (temp-next)=null) & temp = temp. next. temp. next > new Node return head;

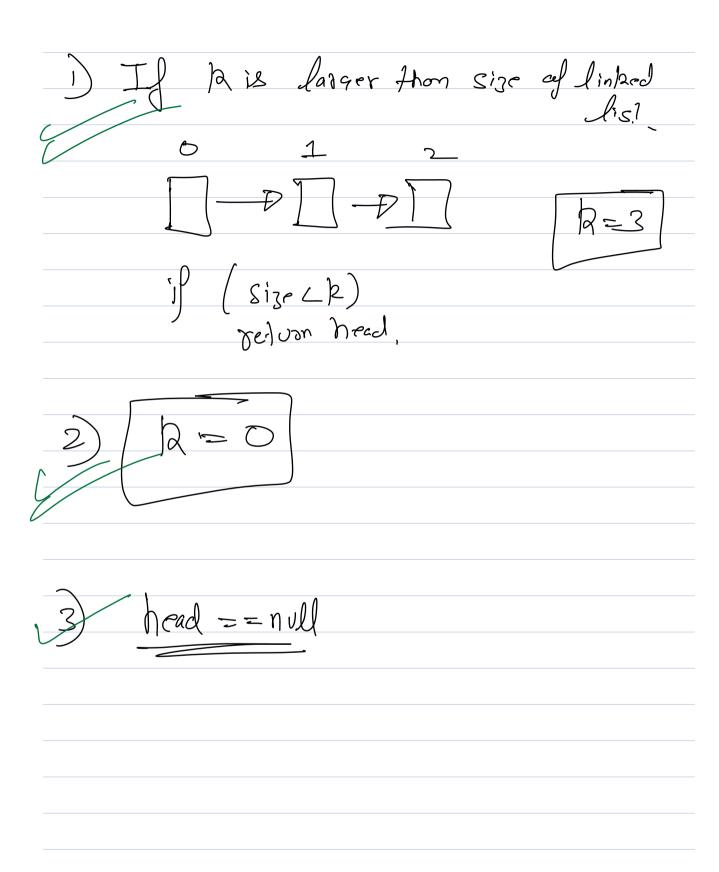
Edge (ases
1) If head was pointing to null.
head I null
2) When linked list he only 1 node-

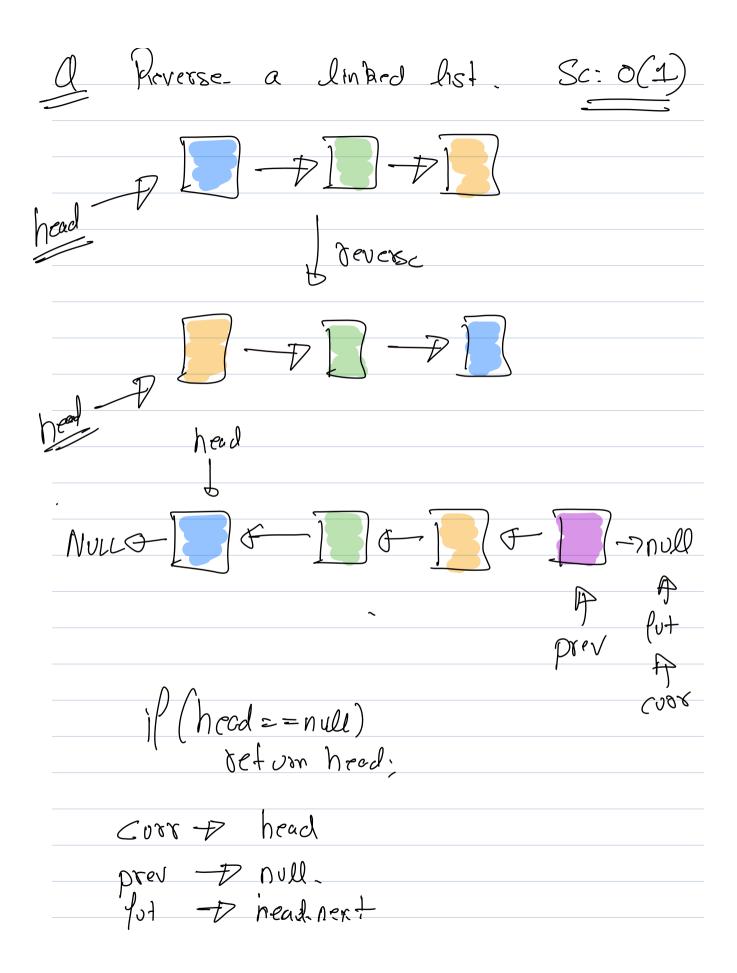
-





Node insertAtK (int d, int R, Node hand) L
if (12 ==0) return insrod_at_braining (di, head);
if (head = = null) return head;
Node newNode = new Node (d);
Node temp = head.
(or (int i=1; i2k; i++) 2
if (temp. next = = null) return head;
temp = temp. next)
newNode. next => temp. next
temp. next => new Node.
reduon head:
3





while (coop = null) 2 Cubr. next = prev. Il (lut! = ryll) & Jot = Jut. next head = prev

2 rd Approach

Curr = head prev = null.

while (corr ! = null)

Next = Cust. next.

Cust = prev.

Cust = next.

ration previous