AOUAV NAME: Ramya Ramesh USN: 1BM19CHO38 DS Lab Program 7 "Singly linked List Operation" Pseudocode: i) Concatenation:

void concatenate (storct node *a, stord node *b)

? if (a!=NULL && b!=NULL) if (a > next == NULL)

arnext = b;
else concatenate (a) next, b); / Recursion point ("Either a or b is NULL \n"); strict node * concat (strict node * start 2, struct node * start 2) etouct mode * pto; if (start1 == NULL) , Start 1 = starta; return start 1;

if (start a == NULL) setum stast 2; ptr = 8tast 1; While (ptr + link != NULL) ptr = pto slink; str , link = starta; action etasts; etout node * current = head, * index = NULL int temp; it (head = = NULL) else { while (current != NOUL) { index = current > next; while (index != NULL) { if (current -) data > index -) data) { temp: urrent >data; current - data = index - data; index - data = temp; index: index next; current = current - next;

YOUVA REVERSE : void reverse (stouct + node current) ? if (head == NULL) { point (" list is empty)"); else { (current > next == NVII) { point (" ".d", current , data); reverse (current > next); "Recursion point (" ", d", covered > data); (VI STACK IMPLEMENTATION: (void push (struct Node ** head ref, int new-data) etorct Node * new mode = (Storct Node *) malloc (sixeof (struct Node)); new-node + data = new-data; New_node > next = (* head_ref); (*head - net) = new_node; ? point ("In list is empty");

pto = head; head = pto - next; fore (pto);
point ("In Nade deleted from the beginning") V) GUEVE IMPLEMENTATION: roid Enqueue (item) stovet node *ptr, * temp; pto: (stouch node *) mallo 2 (size of (stouch node)); pto - data = item; pto) next = NULL; if (head == NULL) head = pto;

print("in Node is inserted"); else temp = head; while (temp-next! = NULL) temp = temp, next; point ("In Node inserted");

AVUOY Void, Dequere () struct mode * pto;
if (head == NULL) point (" In list is empty"); pto = head; head = pto next; free (pto); point ("In Node deleted from Leginning");