printf("The stack is:"); while (top! = NULL) { print { "Y.d -> ", x); print f ("Y.d -> ", x); print ("NULL \n" stanut node {

int data;

struct node * nent; b) Quelle Struct node * enqueue (struct node * head, in t value & struct node *) malloc (size of Cs tourtnede) temp -> data = value; if (head == NULL) { temp = nent = head; head = temp; stornet node * new N=head; while (new N -> next! = NULL) { new N = new N -> next; new N-> next = temp,

temp -> next=NULL; struct node & diquere (struct node * heads if Chead = = NVL Os print ("Queul is empty \n"); vetuen head; Struct node *tp = head;
head = tp > nent;
free (tp);
return head; Void display (struct node * head) {

Struct node * d = head;

while (d! = NULL) {

print t ('' y. d -> ', d +> data);

d = d -> next; printf("NULLIN") int main () {

struct node * head = NUCL;

int choice, value; printf("In 1, Enqueue In");
printf("2. Degnene In");
printf("3. Display In");
printf("4. Emit In"); printf("Enter your choice:"),

Scart (" Y.d", & choice); switch (choice) { print ("Enter value to engrum:"); lant ("I.d" & value); head = engluene (head, value); break; Carl: had = dequere (head);] while (choice '= 4); Enter the size of the linked list: 5 Enter Kaluer to be inserted one by one: 12345 Before sorting: 5 > 4 -3 > 2 -> 1 -> NUCL to sorting: 1->3->3->4->5-> NUCL

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The six o ON Sta Salar Salar 2 1 900 Da Patrit the who to make 1- pul 3. Out any Tale to get Sub Student Sand Jan 3

Enter your choice: 2 7 has been popped 2. pop 3. display Enter your choice: 3
Stack: 6-> NVLL 1. push 2. for 3. display 4. suit Enter your choice: 4 1/6) Quere

1. Enqueue 2 Degueue 3 Display 4. Exit Enter your choice: 1 Enter value: 7 1. Enguer

2. Degreed

3. Display

4. Creit

Enter your choice: 3

Queue: 6 -> 7 -> NULL 1 Enguerre 2 Dequene 3 Display 4 exit Enter your choice: 2 6 has been dequired 1. Enguerre

3. Display

4. crit

Enter your choice: 3

2 Drane: 7 > NULL 1. Enguere 2. Degrune 3. Display

Enter your choice: 4 struct node 3 int data; Struct node * pour; struct node * pour; Struct node * insert At Left (int x) {

5 truct node * p = (struct node *) malloc (size of (struct node)) if (head == NULL) ?

p -> prev = NULL; p->next = NULL; p -> data = x; p -> prev= NULL; p -> next = head; head = pren = p; head = l; return head; void delete Val (int x)?

struct node * p= head; While (p-> next!=NULL) {

if (p → data == x) { P=P-> nent; if (ch == 0) {

print("Value /. d not found in linked lither p-> prev -> next = p-> next; print(",d has been removed \n", p-> data); free (p); void print () { Struct node temp= head;
while (temp! = NVLL) {

printf(" ?d >", femp > data);

temp= temp> next; printf("NULL \n"); 1. Invert at Left 2. Delete value 3 - display Enter your choice. I Enter value to be inserted: 1

1. Inxert at left 2. Delete value 3. display Enter your choice: A factor value to be inserted 1. Insert at left 2. Delete value Z. display 4. enit Enter your choice: 1 Enter value to be insurte Enter your chara: 3 3->2->1->NULL 1. I wil at left 2. Delete value 3. display 4. exit Enter your choice: 2 Enter value to be deleted: 2 1. Insurt at left 2 Petets Value

Hamsa Gold-PAGE NO.

Enter your choia: 3 1. Insert at left 2. Delete value 3. diplay 4. exit Enter your choice: 4 3 Binary Search true #include station struct node ?

int value;

struct node * right;

Struct node * left; struct node * create (int n) ?
struct node * P= (struct node *) mode (size p = right = NULL; p = return p; return p; struct node* insort (storuct node* temp, intr) {

if (temp==NULD {

roburn (real (x);

} (x < temp -> value) {
temp -> left = instrt(temp -> left, x); else if (x > temp -> value) {

temp -> right = insert(temp -> right, x); vetwon temp; struct node* inorder (struct node* root) {

struct node* temp=root;

if (temp! = NULL) {

inorder (temp -> left);

print f("/.d", temp -> value);

inorder (temp -> right); struct node* postorder (struct node * voot) {

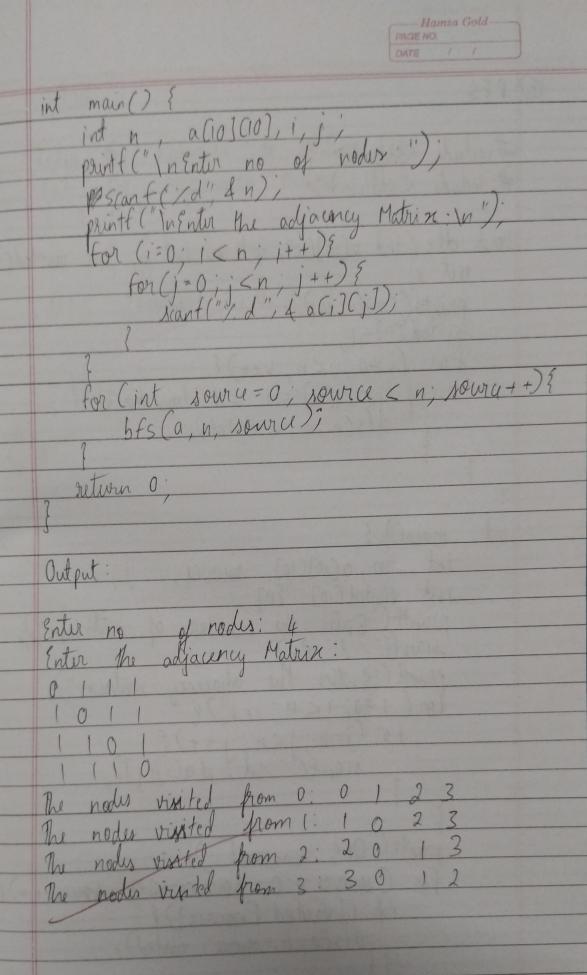
struct node * temp=root;

pif(temp!=NULL) {

**The struct node * voot) {

**The struc portorder (temp -> left) print F("/d", temp-> value) struct node* preorder (struct node * root) struct node* temp = voot, if (temp! = NULL) { printf(+,d", temp - value) proorder (temp -> left); priorder (temp -> right);

Output: 60 inordin: 10 20 39 50 poxtondur: 30 20 10 70 preorder: 50 10 20 30 50 BFS #include (stdip.h> bls(int a[10][10], int n, int u) {
int f, r, g(10], V;
int s(10] = 20];
printf("The nodes visited from /d", u) Void 1 ff s[v]= 0) { printf ("\n")



15) DFS # include (stdio.h) # include <stdlib.h> void des (int a Cio] Cio), int n, int u, int visited () ? print+("/d", "); visited Cul=1 for (v=0; v<n; v++) { if (acu3Cv]==1 & & !vin ted(v)) {
 dfs(a, n, v, visited); int n, a (10)(10), source, i, i; porint ("Enter the number of vertices:") print ("Enter the odjacency matrix:"); for (1=0; 1< n; 1++7 { for (j=0; j≤n; j++)?
scape("/d", dacij(jD); prints ("DFG transport"); for Counce = 0; source < n; youra++){ if Christed Commas) ? (dfs(o, n, soura, vinted))

