Hindude (Stdjo 1) Findual (Stallb. W) # define MAX NODES 100 Stouce Node int data: Struct Node # nent; Struct Graphic int NamNodee; Stouct Node * Endylists [MAX_NODES]; int visided [MAX_NODES] Struct Node & createnade (int data) Struct Node * reworde = (5 truct NOV) mallock Size of Cerry works new Node > data = data; Newn Dde > nent = Null; retween new Node? Stouct Graph + create Graph Cint n/2 Struct Grapher grouph - (Struct Gray

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(SDe of (Stouct Grapal): graph > Num Nodes = no for (int 1=0; izn; i++) graph > adjusts[i] = NULLO, graphy visited [i] =0: return graph? Wid addidge (Stouct Grapho graph, int socient dest de Struct Node of nownode = createrode (dest); newNode ? next - graph > additists graph & adjusts [Till new Node; newword = createrlade (Src);
newworde > nent = graphs adglists
Edes (J; Juppropur > adj'listx [dest]-new Note Moid DFS (SNOW Egraph & graph, int Stand DFS (SNOW Node) = 1;

point (r1 1-2", start Node) Struct Node & temp= graphs adjuists [stary Node]: while (temp) int adjoode = temp 2 dans it Cigraph -> Vilited Fadeo DEC Grabu adjusati temp = temp > nent; p a niam toi fort NoumNodel; point (" Enter the number of nedy" Scarf ("Y.d", freun Nodes) 340 cet Graph & group 4 = create int Down Edges? points ("Enoter the number of edge: 11);

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Scarf (" /d", & numt dges);

for Cint i=0; « Encumt dges; it is?

Int Src, dest i

printf (" Enter edge /d (

Source destination);

i+1);

Scoup (" /d /d", & src, dest);

add Fdge (graph, Src, dest);

print ("Enter the starting Node

for DFS proversal.");

geouf ("Yd", & Start Node);

print ["DFS traversal starting;

from node-s.d", Start Node);

OFS (graph, Start Node);

return o;

out put Enter the number of inde are . number of edge [when edela (conser du horasses) 21 ENTON edge 2 (Source diestrostor): ENter edges (source dustination) ENTO edge a Course destinations cuton edge 5 (Sound destrustes centra edge & (some distration) cuter edge 7 C Coverce Listington Enter Soonting node for DFE sounds BAS toansor stooning from and