

DFS.c - Code::Blocks 25.03

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```
1 #include <stdio.h>
2 #include <stdlib.h>
3 #define MAX 20
4
5 struct Node {
6     int vertex;
7     struct Node* next;
8 };
9
10 struct Node* adj[MAX];
11 int visited[MAX];
12
13 void addEdge(int u, int v) {
14     struct Node* newNode = (struct Node*)malloc(sizeof(struct Node));
15     newNode->vertex = v;
16     newNode->next = adj[u];
17     adj[u] = newNode;
18
19     newNode = (struct Node*)malloc(sizeof(struct Node));
20     newNode->vertex = u;
21     newNode->next = adj[v];
22     adj[v] = newNode;
23 }
24
25 void DFS(int node) {
26     visited[node] = 1;
27
28     struct Node* temp = adj[node];
29     while (temp != NULL) {
30         if (!visited[temp->vertex]) {
31             DFS(temp->vertex);
32         }
33         temp = temp->next;
34     }
35 }
36
37 int main() {
38     int n, e, u, v;
39
40     printf("Enter number of vertices: ");
41     scanf("%d", &n);
42
43     printf("Enter number of edges: ");
44     scanf("%d", &e);
45 }
```

Logs & others

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ParsellManager::CreateParser: Finish creating a new parser for project "NONE"
ParsellManager::OnParserEnd: Project "NONE" parsing stage done!

C:\Users\BMSCECSE-L4\Desktop\DFS.c

C/C++ Windows (CR+LF) WINDOWS-1252 Line 58, Col 12, Pos 1158 Insert Read/Write default

21°C Sunny Search 11:21:08 08-12-2025

```

42
43 printf("Enter number of edges: ");
44 scanf("%d", &e);
45
46 for (int i = 0; i < n; i++)
47     adj[i] = NULL;
48
49 printf("Enter edges (u v):\n");
50 for (int i = 0; i < e; i++) {
51     scanf("%d %d", &u, &v);
52     addEdge(u-1, v-1);
53 }
54
55 for (int i = 0; i < n; i++)
56     visited[i] = 0;
57
58 DFS(0);
59 int connected = 1;
60 for (int i = 0; i < n; i++) {
61     if (!visited[i]) {
62         connected = 0;
63         break;
64     }
65 }
66
67 if (connected)
68     printf("The graph is CONNECTED.\n");
69 else
70     printf("The graph is NOT connected.\n");
71
72 return 0;
73
74
75

```

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fsWatcher: notified about path: C:\tr952.tmp
fsWatcher: notified about path: C:\\$Recycle.Bin

C:\Users\BMSCECSE-L4\Desktop\DFS.c

C/C++

Windows (CR+LF)

WINDOWS-1252

Line 68, Col 45, Pos 1383

Insert

Read/Write

default



Breaking news
Kerala sexual ass...



Search



ENG
IN

11:48:50
08-12-2025

Enter number of vertices: 6

Enter number of edges: 8

Enter edges (u v):

1 2

1 3

2 6

3 4

3 6

4 5

4 6

5 6

The graph is CONNECTED.

Process returned 0 (0x0) execution time : 11.526 s

Press any key to continue.

|