

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

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

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

21°C Sunny ENG IN 11:21:08 08-12-2025

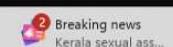
```
41
42     scanf(" %d\n", &e);
43
44     printf("Enter number of edges: ");
45     scanf("%d", &e);
46
47     for (int i = 0; i < n; i++)
48         adj[i] = NULL;
49
50     printf("Enter edges (u v):\n");
51     for (int i = 0; i < e; i++) {
52         scanf("%d %d", &u, &v);
53         addEdge(u-1, v-1);
54     }
55
56     for (int i = 0; i < n; i++)
57         visited[i] = 0;
58
59     DFS(0);
60     int connected = 1;
61     for (int i = 0; i < n; i++) {
62         if (!visited[i]) {
63             connected = 0;
64             break;
65         }
66     }
67
68     if (connected)
69         printf("The graph is CONNECTED.\n");
70     else
71         printf("The graph is NOT connected.\n");
72
73     return 0;
74 }
```

Logs & others

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fsWatcher: notified about path: C:\vtr952.tmp
fsWatcher: notified about path: C:\\$Recycle.Bin

```
C:\Users\BMSCECSE-L4\Desktop + X - D X
Enter number of vertices: 6
Enter number of edges: 8
Enter edges (u v):
1 2
1 3
1 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.
```



Breaking news
Kerala sexual ass...



^ & ENG IN 11:48:00
08-12-2025