

```
C:\Users\BMSCECSE-L4\Docu... X + v
Enter number of vertices: 5
Enter number of edges: 6
Enter edge (src dest): 1
2
Enter edge (src dest): 1
3
Enter edge (src dest): 2
4
Enter edge (src dest): 3
4
Enter edge (src dest): 3
5
Enter edge (src dest): 4
5
Graph is Connected

Process returned 0 (0x0)   execution time : 21.574 s
Press any key to continue.
|
```

9B.C - Code::Blocks 25.03

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Start here x 9A.C x 9B.C x

Management Projects Symbols Files Workspace

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

Logs & others

Code::Blocks x Search results x Cccc x Build log x Build messages x CppCheck/Vera++ x CppCheck/Vera++ messages x Cscope x Debugger x DoxyBlocks x Fortran info x Closed files list x Thread search x

File	Line	Message
		=== Build file: "no target" in "no project" (compiler: unknown) ===
		=== Build finished: 0 error(s), 0 warning(s) (0 minute(s), 0 second(s)) ===

C/C++ Windows (CR+LF) WINDOWS-1252 Line 60, Col 2, Pos 1174 Insert Read/Write default

C:\Users\BMSCECSE-L4\Documents\9B.C

23°C Sunny Search 11:48 08-12-2025

9B.C - Code::Blocks 25.03

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<global> main(): int

Management

Projects Symbols Files

Workspace

```
23     visited[v] = 1;
24
25     struct Node* temp = adj[v];
26     while (temp != NULL) {
27         if (!visited[temp->vertex])
28             dfs(temp->vertex);
29         temp = temp->next;
30     }
31 }
32
33 int main() {
34     int edges, src, dest;
35
36     printf("Enter number of vertices: ");
37     scanf("%d", &n);
38
39     printf("Enter number of edges: ");
40     scanf("%d", &edges);
41
42     for (int i = 0; i < edges; i++) {
43         printf("Enter edge (src dest): ");
44         scanf("%d %d", &src, &dest);
45         addEdge(src, dest);
46         addEdge(dest, src);
47     }
48
49     dfs(1);
50
51     for (int i = 1; i <= n; i++) {
52         if (!visited[i]) {
53             printf("Graph is NOT Connected\n");
54             return 0;
55         }
56     }
57
58     printf("Graph is Connected\n");
59     return 0;
60 }
61
```

Logs & others

Code::Blocks Search results Cccc Build log Build messages CppCheck/Vera++ CppCheck/Vera++ messages Cscope Debugger DoxyBlocks Fortran info Closed files list Thread search

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C:\Users\BMSCECSE-L4\Documents\9B.C

23°C Sunny

Search

11:49 08-12-2025

9A.C - Code::Blocks 25.03

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<global> main(): int

Management

Projects Symbols Files

Workspace

```
1 #include <stdio.h>
2 #include <stdlib.h>
3
4 #define MAX 20
5
6 struct Node {
7     int vertex;
8     struct Node* next;
9 };
10
11 struct Node* adj[MAX];
12 int visited[MAX];
13 int queue[MAX], front = 0, rear = 0;
14 int n;
15
16 void addEdge(int src, int dest) {
17     struct Node* newNode = (struct Node*)malloc(sizeof(struct Node));
18     newNode->vertex = dest;
19     newNode->next = adj[src];
20     adj[src] = newNode;
21 }
22
23 void bfs(int start) {
24     int v;
25     queue[rear++] = start;
26     visited[start] = 1;
27
28     printf("BFS Traversal: ");
29     while (front < rear) {
30         v = queue[front++];
31         printf("%d ", v);
32
33         struct Node* temp = adj[v];
34         while (temp != NULL) {
35             if (!visited[temp->vertex]) {
36                 queue[rear++] = temp->vertex;
37                 visited[temp->vertex] = 1;
38             }
39             temp = temp->next;
40         }
41     }
42 }
```

Logs and others

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C/C++ Windows (CR+LF) WINDOWS-1252 Line 66, Col 2, Pos 1367 Insert Read/Write default

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9A.C - Code::Blocks 25.03

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<global> main(): int

Management

Projects Symbols Files

Workspace

```
29 while (front < rear) {
30     v = queue[front++];
31     printf("%d ", v);
32
33     struct Node* temp = adj[v];
34     while (temp != NULL) {
35         if (!visited[temp->vertex]) {
36             queue[rear++] = temp->vertex;
37             visited[temp->vertex] = 1;
38         }
39         temp = temp->next;
40     }
41 }
42
43
44 int main() {
45     int edges, src, dest, start;
46     int main::start
47     printf("Enter number of vertices: ");
48     scanf("%d", &n);
49
50     printf("Enter number of edges: ");
51     scanf("%d", &edges);
52
53     for (int i = 0; i < edges; i++) {
54         printf("Enter edge (src dest): ");
55         scanf("%d %d", &src, &dest);
56         addEdge(src, dest);
57         addEdge(dest, src);
58     }
59
60     printf("Enter starting vertex: ");
61     scanf("%d", &start);
62
63     bfs(start);
64
65     return 0;
66 }
67
```

Logs and others

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```
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Enter number of vertices: 5
Enter number of edges: 6
Enter edge (src dest): 1
2
Enter edge (src dest): 1
3
Enter edge (src dest): 2
4
Enter edge (src dest): 3
4
Enter edge (src dest): 3
5
Enter edge (src dest): 4
5
Enter starting vertex: 1
BFS Traversal: 1 3 2 5 4
Process returned 0 (0x0)    execution time : 20.945 s
Press any key to continue.
|
```