

```
Enter number of vertices: 4
Enter adjacency matrix:
0 1 0 0
1 0 0 1
0 1 0 1
0 0 1 0
The graph is CONNECTED.
Process returned 0 (0x0)   execution time : 21.165 s
Press any key to continue.
```

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Type here to search



Gold +0.95% 11:53:46 AM 01-12-2025

```

#include <stdio.h>

#define MAX 100

int visited[MAX];

void DFS(int adj[MAX][MAX], int n, int v) {
    visited[v] = 1;

    for (int i = 0; i < n; i++) {
        if (adj[v][i] == 1 && !visited[i]) {
            DFS(adj, n, i);
        }
    }
}

int main() {
    int n, adj[MAX][MAX];

    printf("Enter number of vertices: ");
    scanf("%d", &n);

    printf("Enter adjacency matrix:\n");
    for (int i = 0; i < n; i++) {
        for (int j = 0; j < n; j++) {
            scanf("%d", &adj[i][j]);
        }
    }

    for (int i = 0; i < n; i++) {
        visited[i] = 0;
    }

    DFS(adj, n, 0);

    int connected = 1;
    for (int i = 0; i < n; i++) {
        if (!visited[i]) {
            connected = 0;
            break;
        }
    }
}

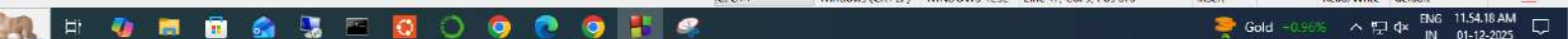
```

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Project Projectfile

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C/C++ Windows (CR+LF) WINDOWS-1252 Line 47, Col 9, Pos 870 Insert Read/Write default ENG 11:54:18 AM 01-12-2025



```
DFS(adj, n, 1);  
}  
}  
  
int main() {  
    int n, adj[MAX][MAX];  
  
    printf("Enter number of vertices: ");  
    scanf("%d", &n);  
  
    printf("Enter adjacency matrix:\n");  
    for (int i = 0; i < n; i++) {  
        for (int j = 0; j < n; j++) {  
            scanf("%d", &adj[i][j]);  
        }  
    }  
  
    for (int i = 0; i < n; i++) {  
        visited[i] = 0;  
    }  
  
    DFS(adj, n, 0);  
  
    int connected = 1;  
    for (int i = 0; i < n; i++) {  
        if (!visited[i]) {  
            connected = 0;  
            break;  
        }  
    }  
  
    if (connected)  
        printf("The graph is CONNECTED.\n");  
    else  
        printf("The graph is NOT CONNECTED.\n");  
  
    return 0;  
}
```

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Project Projectfile

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