

```
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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```
#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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```
        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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