Check whether a given graph is connected or not using DFS method.

```c
#include<stdio.h>
#include<conio.h>

int a[20][20], reach[20], n;

void dfs(int v) {
    int i;
    reach[v] = 1;

    for (i = 1; i <= n; i++) {
        if (a[v][i] && !reach[i]) {
            printf("\n%d -> %d", v, i);
            dfs(i);
        }
    }
}

void main() {
    int i, j, count = 0;

    printf("\nEnter the number of vertices: ");
    scanf("%d", &n);

    for (i = 1; i <= n; i++) {
        reach[i] = 0;
        for (j = 1; j <= n; j++) {
            a[i][j] = 0;
```

```c
        }

    }


    printf("\nEnter the adjacency matrix:\n");
    for (i = 1; i <= n; i++)
        for (j = 1; j <= n; j++)
            scanf("%d", &a[i][j]);


    printf("\nDepth-First Search starting from vertex 1:\n");
    dfs(1);


    printf("\n");


    for (i = 1; i <= n; i++) {
        if (reach[i])
            count++;
    }


    if (count == n)
        printf("\nGraph is connected\n");
    else
        printf("\nGraph is not connected\n");
}
```