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#include <stdio.h>

int visited[100];

void dfs(int graph[100][100], int n, int v) {
    int i;
    visited[v] = 1;
    printf("%d ", v);

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

int main() {
    int graph[100][100], n, i, j, start;
    printf("Enter number of vertices: ");
    scanf("%d", &n);

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

    printf("Enter starting vertex: ");
    scanf("%d", &start);

    printf("DFS traversal: ");
    dfs(graph, n, start);

    return 0;
}

```