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#include <stdio.h>
#include <stdlib.h>

#define MAX 10

int graph[MAX][MAX];
int visited[MAX];

void addEdge(int u, int v) {
graph[u][v] = 1;
graph[v][u] = 1;
}

void DFS(int start, int n) {
int i;
printf("%d ", start);
visited[start] = 1;

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

int main() {
int n, e, u, v, start, i, j;

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

printf("Enter number of connections (edges): ");
scanf("%d", &e);


for (i = 0; i < n; i++)
for (j = 0; j < n; j++)
graph[i][j] = 0;

printf("Enter connections (building1 building2):\n");
for (i = 0; i < e; i++) {
scanf("%d%d", &u, &v);
addEdge(u, v);
}

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

// Reset visited array
for (i = 0; i < n; i++)
visited[i] = 0;

printf("\nDFS Traversal (Campus Path): ");
DFS(start, n);
```

```
return 0;
}
```