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#include<iostream>
using namespace std;

void print(int** edges, int n, int sv, bool* visited){
    cout << sv << endl;
    visited[sv] = true;
    for(int i=0; i<n; i++){
        if(i==sv){
            continue;
        }
        if(edges[sv][i]==1){
            if(visited[i]){
                continue;
            }
            print(edges, n, i, visited);
        }
    }
}

int main(){
    int n;
    int e;
    cin >> n >> e;

    int** edges = new int*[n];
    for(int i=0; i<n; i++){
        edges[i]=new int[n];
        for(int j=0; j<n; j++){
            edges[i][j]=0;
        }
    }

    for(int i=0; i<e; i++){
        int f,s;
        cin >> f >> s;
        edges[f][s]=1;
        edges[s][f]=1;
    }

    bool* visited = new bool[n];

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

    print(edges, n, 0, visited);
    // Delete all the memory

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    return 0;  
}
```