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#include<stdio.h>
#include<stdlib.h>
#include<stdbool.h>
#define MAX 100

void initializeGraph(int *graph, int num) {
    for (int i = 0; i < num; i++) {
        for (int j = 0; j < num; j++) {
            *((graph + i * num) + j) = 0;
        }
    }
}

void addEdge(int *graph, int src, int dest, int num) {
    *((graph + src * num) + dest) = 1;
}

void print(int *graph, int num) {
    for (int i = 0; i < num; i++) {
        for (int j = 0; j < num; j++) {
            printf("%d ", *((graph + i * num) + j));
        }
        printf("\n");
    }
}

void DFS(int *graph, int src, int num, int *visited) {
    printf(" %d ", src);
    visited[src] = 1;
    for (int j = 0; j < num; j++) {
        if (*((graph + src * num) + j) == 1 && !(visited[j])) {
            DFS((int *)graph, j, num, (int *)visited);
        }
    }
}

void DFSWrapper(int *graph, int num, int *visited) {
    for (int i = 0; i < num; i++) {
        if (!visited[i]) {
            DFS((int *)graph, i, num, (int *)visited);
        }
    }
}

void printSCC(int *graph, int num) {
    int revGraph[num][num];
    for (int i = 0; i < num; i++) {
        for (int j = 0; j < num; j++) {
            revGraph[i][j] = *((graph + j * num) + i);
        }
    }
}

```

