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PALAK SHARMA
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#include <stdio.h>
#include <stdlib.h>
int vis[100];
struct Graph {
        int V;
        int E;
        int** Adj;
};
struct Graph* adjMatrix()
{
        struct Graph* G = (struct Graph*)
                malloc(sizeof(struct Graph));
        if (!G) {
                printf("Memory Error\n");
                return NULL;
        G->V=7;
        G->E=7:
        G->Adj = (int**)malloc((G->V) * sizeof(int*));
        for (int k = 0; k < G->V; k++) {
                G->Adj[k] = (int*)malloc((G->V) * sizeof(int));
        }
        for (int u = 0; u < G > V; u++) {
                for (int v = 0; v < G->V; v++) {
                        G \rightarrow Adj[u][v] = 0;
                }
        G->Adj[0][1] = G->Adj[1][0] = 1;
        G->Adj[0][2] = G->Adj[2][0] = 1;
        G->Adj[1][3] = G->Adj[3][1] = 1;
        G->Adj[1][4] = G->Adj[4][1] = 1;
        G->Adj[1][5] = G->Adj[5][1] = 1;
        G->Adj[1][6] = G->Adj[6][1] = 1;
        G->Adj[6][2] = G->Adj[2][6] = 1;
        return G;
}
// DFS function to print DFS traversal of graph
void DFS(struct Graph* G, int u)
        vis[u] = 1;
        printf("%d ", u);
```

for (int v = 0; v < G > V; v++) {

}

}

if (!vis[v] && G->Adj[u][v]) { DFS(G, v);