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

int visited[7] = {0,0,0,0,0,0,0};
    int A [7][7] = {
        {0,1,1,1,0,0,0},
        {1,0,1,0,0,0,0},
        {1,1,0,1,1,0,0},
        {1,0,1,0,1,0,0},
        {0,0,1,1,0,1,1},
        {0,0,0,0,1,0,0},
        {0,0,0,0,1,0,0}
    };

void DFS(int i){
    printf("%d ", i);
    visited[i] = 1;
    for (int j = 0; j < 7; j++)
    {
        if(A[i][j]==1 && !visited[j]){
            DFS(j);
        }
    }
}

int main(){
    // DFS Implementation
    DFS(0);
    return 0;
}
```