# Graph using Array

```c
#include <stdio.h>
#include "Queue.h"

void BFS(int G[][7],int start,int n)
{
    int i=start,j;

    int visited[7]={0};

    printf("%d ",i);
    visited[i]=1;
    enqueue(i);

    while(!isEmpty())
    {
        i=dequeue();
        for(j=1;j<n;j++)
        {
            if(G[i][j]==1 && visited[j]==0)
            {
                printf("%d ",j);
                visited[j]=1;
                enqueue(j);
            }
        }
    }


}

void DFS(int G[][7],int start,int n)
{
    static int visited[7]={0};
    int j;

    if(visited[start]==0)
```

```c
{
    printf("%d ",start);
    visited[start]=1;

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


int main()
{
    int G[7][7]={{0,0,0,0,0,0,0},
                 {0,0,1,1,0,0,0},
                 {0,1,0,0,1,0,0},
                 {0,1,0,0,1,0,0},
                 {0,0,1,1,0,1,1},
                 {0,0,0,0,1,0,0},
                 {0,0,0,0,1,0,0}};

    DFS(G,4,7);

    return 0;
}
```