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Implementation of BFS
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#include <stdio.h>
#include <stdlib.h>
#define MAX_SIZE 7
int queue[MAX_SIZE];
int front = -1, rear = -1;
int isEmpty() { return front == -1 && rear == -1; }
int isFull() { return rear == MAX_SIZE - 1; }
void enqueue(int val) {
  if (!isFull()) {
     if (isEmpty()) {
       front = rear = 0;
     } else {
       rear = (rear + 1) % MAX_SIZE;
     queue[rear] = val;
  } else {
     printf("\nQUEUE IS FULL!\n");
  }
}
int dequeue() {
  if (!isEmpty()) {
     int val = queue[front];
     if (front == rear) {
       front = rear = -1;
     } else {
       front = (front + 1) % MAX_SIZE;
     return val;
  } else {
     printf("\nQUEUE IS EMPTY!\n");
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return -1;
  }
}
int visited[MAX_SIZE] = {0};
int main() {
  int g[MAX_SIZE][MAX_SIZE] = {
     \{0, 1, 1, 0, 0, 0, 0\},\
     \{0, 0, 0, 0, 0, 0, 0, 0\},\
     \{0, 0, 0, 1, 0, 1, 0\},\
     \{1, 1, 0, 0, 0, 0, 1\},\
     \{0, 1, 0, 0, 0, 0, 0\}
     \{0, 0, 0, 0, 0, 0, 1\},\
     \{0, 0, 0, 0, 1, 0, 0\}
  };
   int i = 0;
   visited[i] = 1;
   printf("%d -> ", i);
   enqueue(i);
   while (!isEmpty()) {
     int i = dequeue();
     for (int j = 0; j < MAX_SIZE; j++) {
        if (g[i][j] && !visited[j]) {
           visited[i] = 1;
           printf("%d -> ", j);
           enqueue(j);
        }
     }
   return 0;
Implementation of DFS
#include<stdio.h>
#include<stdlib.h>
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```
#define size 7
int s[size];
int top=-1;
int pop();
void push(int);
void main(){
  int
0,0,1\},\{0,0,0,0,1,0,0\}\};
  int visited[size]={0};
  int j,i=0;
  while(i>-1 && i<size)
  {
    if(visited[i]!=1)
    printf("%d ",i);
    visited[i]=1;
    for(i,j=0;j<size;j++)
      if(g[i][j]==1 && visited[j]!=1){
      push(j);
      }
    i=pop();
  }
}
void push(int data)
    top=top+1;
    s[top]=data;
}
int pop()
{
    int temp;
    temp=s[top];
    top=top-1;
```

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return temp;
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}