Topology

```
#include<stdio.h>
#include<conio.h>
int a[10][10],vis[10],E[10],n,J=0;
void dfs(int v);
void main(){
  int m,c,d,i,j;
  printf("Enter the number of vertices ");
  scanf("%d",&n);
  for(i=1;i<=n;i++){}
     for(j=0;j<=n;j++){
        a[i][j]=0;
     }
  }
  printf("Enter the number of edges");
  scanf("%d",&m);
  for(i=1;i<=m;i++){
     printf("Enter the edges ");
     scanf("%d%d",&c,&d);
     a[c][d]=1;
  for(i=1;i \le n;i++){
     if(vis[i]==0){
        dfs(i);
     }
  printf("Topological Order\n");
  for(i=n-1;i>=0;i--){}
     printf("%d\t",E[i]);
  }
void dfs(int v){
  vis[v]=1;
  for(int i=1;i<=n;i++){
     if(a[v][i]==1 \&\& vis[i]==0){
        dfs(i);
     }
  E[J++]=v;
```

Output:

```
Enter the number of vertices 5
Enter the number of edges 5
Enter the edges 1 3
Enter the edges 2 3
Enter the edges 3 4
Enter the edges 3 5
Enter the edges 4 5
Topological Order
2 1 3 4 5
```