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#include<stdio.h>

int a[10][10],vis[10],exp[10],n,i,j=0;

void dfs(int v)
{
    int i;

    vis[v]=1;

    for(i=1;i<=n;i++)
    {
        if(a[v][i]==1 && vis[i]==0)
            dfs(i);
    }

    exp[j++]=v;
}

void main()
{
    int i,k,m,p,q;

    printf("Enter number of vertices:");

    scanf("%d",&n);

    for(i=1;i<=n;i++)
    {
        for(k=1;k<=n;k++)

            a[i][k]=0;
    }

    printf("Enter number of edges:");

    scanf("%d",&m);

```

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for(i=1;i<=m;i++)
{
    printf("Enter edge:");
    scanf("%d%d",&p,&q);
    a[p][q]=1;
}

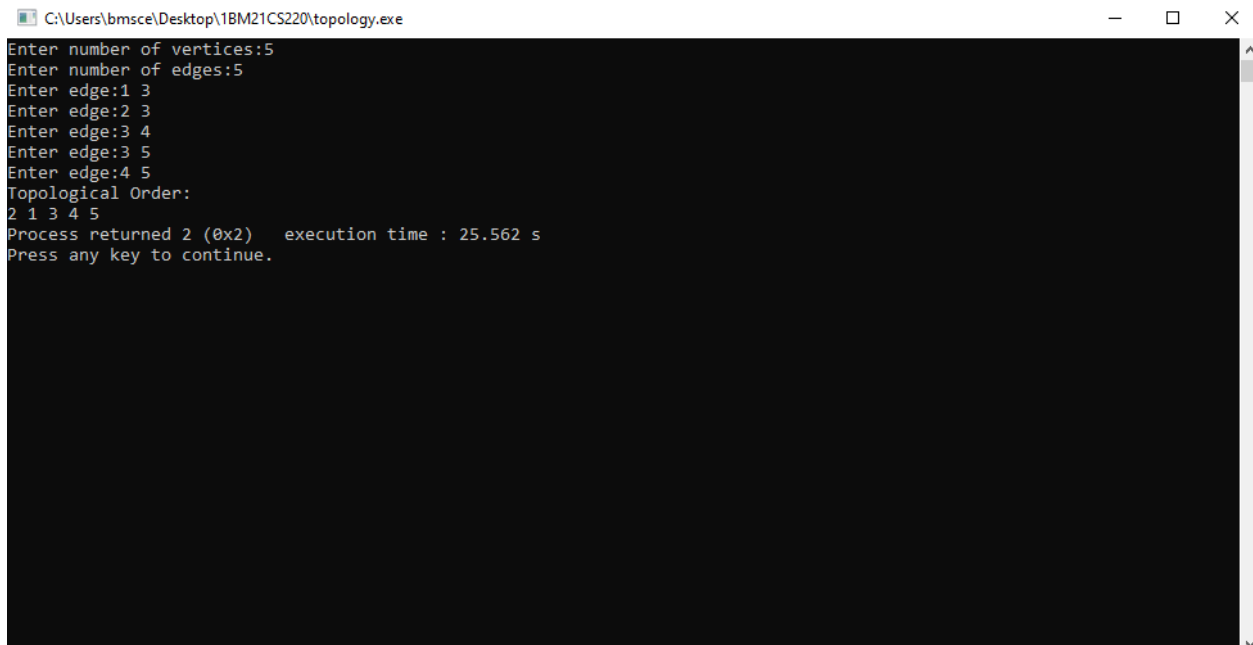
for(i=1;i<=n;i++)
    vis[i]=0;

for(i=1;i<=n;i++)
{
    if(vis[i]==0)
        dfs(i);
}

printf("Topological Order:\n");

for(i=n-1;i>=0;i--)
    printf("%d ",exp[i]);
}

```



The screenshot shows a Windows command prompt window titled "C:\Users\bmsce\Desktop\1BM21CS220\topology.exe". The program prompts the user to enter the number of vertices (5) and edges (5). It then asks for 5 edges, which are entered as (1, 3), (2, 3), (3, 4), (3, 5), and (4, 5). The program outputs the topological order as "2 1 3 4 5". At the bottom, it shows "Process returned 2 (0x2) execution time : 25.562 s" and "Press any key to continue."

```

C:\Users\bmsce\Desktop\1BM21CS220\topology.exe
Enter number of vertices:5
Enter number of edges:5
Enter edge:1 3
Enter edge:2 3
Enter edge:3 4
Enter edge:3 5
Enter edge:4 5
Topological Order:
2 1 3 4 5
Process returned 2 (0x2)   execution time : 25.562 s
Press any key to continue.

```