```c
#include<stdio.h>
#include<conio.h>
int a[10][10],n,indegre[10];
void find_indegre()
{ int j,i,sum;
  for(j=0;j<n;j++)
  {
  sum=0;
  for(i=0;i<n;i++)
  sum+=a[i][j];
  indegre[j]=sum;
  }
}
void topology()
{
  int i,u,v,t[10],s[10],top=-1,k=0;
  find_indegre();
  for(i=0;i<n;i++)
  {
  if(indegre[i]==0) s[++top]=i;
  }
  while(top!=-1)
  {
  u=s[top--];
  t[k++]=u;
  for(v=0;v<n;v++)
  {
  if(a[u][v]==1)
  {
  indegre[v]--;
  if(indegre[v]==0) s[++top]=v;
  }
  }
  }
  printf("The topological Sequence is:\n");
  for(i=0;i<n;i++)
```

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*topologicalOrder.c X

```c
18      for(i=0;i<n;i++)
19      {
20          if(indegre[i]==0) s[++top]=i;
21      }
22      while(top!=-1)
23      {
24          u=s[top--];
25          t[k++]=u;
26          for(v=0;v<n;v++)
27          {
28              if(a[u][v]==1)
29              {
30                  indegre[v]--;
31                  if(indegre[v]==0) s[++top]=v;
32              }
33          }
34      }
35      printf("The topological Sequence is:\n");
36      for(i=0;i<n;i++)
37      printf("%d ",t[i]);
38      }
39      void main()
40      {
41          int i,j;
42          printf("Enter number of jobs:");
43          scanf("%d",&n);
44          printf("\nEnter the adjacency matrix:\n");
45          for(i=0;i<n;i++)
46          {
47              for(j=0;j<n;j++)
48              scanf("%d",&a[i][j]);
49          }
50          topology();
51      }
52
```

```
Enter number of jobs:6

Enter the adjacency matrix:
0 0 1 1 0 0
0 0 0 1 1 0
0 0 0 1 0 1
0 0 0 0 0 1
0 0 0 0 0 1
0 0 0 0 0 0
The topological Sequence is:
1 4 0 2 3 5
Process returned 6 (0x6)   execution time : 56.674 s
Press any key to continue.
```