```c
1   #include<stdio.h>
2   #include<conio.h>
3   int a[10][10],n,indegre[10];
4   void find_indegre()
5   { int j,i,sum;
6   for(j=0;j<n;j++)
7   {
8   sum=0;
9   for(i=0;i<n;i++)
10  sum+=a[i][j];
11  indegre[j]=sum;
12  }
13  }
14  void topology()
15  {
16  int i,u,v,t[10],s[10],top=-1,k=0;
17  find_indegre();
18  for(i=0;i<n;i++)
19  {
20  if(indegre[i]==0) s[++top]=i;
21  }
22  while(top!=-1)
```

input

```c
{
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++)
printf("%d ",t[i]);
}
void main()
{
int i,j;
printf("Enter number of vertices:");
scanf("%d",&n);
printf("\nEnter the adjacency matrix:\n");
for(i=0;i<n;i++)
{
for(j=0;j<n;j++)
scanf("%d",&a[i][j]);
}
topology();
getch();
```

```
Enter number of vertices:5

Enter the adjacency matrix:
0 1 0 1 0
0 0 1 1 0
0 0 0 0 0
0 0 1 0 1
0 0 0 0 0
The topological Sequence is:
0 1 3 4 2


...Program finished with exit code 255
Press ENTER to exit console.
```

```c
#include <stdio.h>
#include <conio.h>
int a[10][10], n, indegree[10];
void find-indegree()
{
int j,i,sum;
for(j=0; j<n; j++)
{
sum = 0;
for(i=0; i<n; i++)
sum+=a[i][j];
indegree[i]=sum;
}
}
void topology()
{
int i,v,u,t[10],s[10], top=-1, k=0;
find-indegree();
for(i=0; i<n; i++)
{
if(indegree[i]==0)  s[++top]=i;
}
while(top!=-1)
{
u=s[top--];
t[k++]=u;
for(v=0; v<n; v++)
```

```c
if (a[u][v]==1)
{
indegree[v]--;
if(indegree[v]==0) s[++top]=v;
}
}
}
printf("The topological sequence is : \n");
for (i=0; i<n; i++)
printf("%d", t[i]);
}
void main ()
{
int i,j;
printf("Enter the no. of vertices: ");
scanf("%d", &n);
printf("\nEnter the adjacency matrix: ");
for(i=0; i<n; i++)
{
for(j=0; j<n; j++)
scanf("%d", &a[i][j]);
}
topology ();
getch();
}
```