0

```
main.c
                                                                                     8
     #include<stdio.h>
 1
 2
     int temp[10], k=0;
 3
     void topo(int n,int indegree[10],int a[10][10])
 4
     {
 5
     int i,j;
 6
     for(i=1;i<=n;i++)
 7
 8
     if(indegree[i]==0)
 9
     indegree[i]=1;
10
     temp[++k]=i;
11
12
     for(j=1;j<=n;j++)
13
14
     if(a[i][j]==1&&indegree[j]!=-1)
15
     indegree[j]--;
16
     }
17
     i=0;
18
     }
19
     }
20
     int main()
21
22
23
     int i, j, n, indegree [10], a [10] [10];
     printf("enter the number of vertices:");
24
25
     scanf("%d",&n);
26
     for(i=1;i<=n;i++)
27
     indegree[i]=0;
28
     printf("\n enter the adjacency matrix\n");
29
     for(i=1; i<=n; i++)
30
     for(j=1;j<=n;j++)
31
     {
32
     scanf("%d",&a[i][j]);
     if(a[i][j]==1)
33
34
     indegree[j]++;
35
36
     topo(n,indegree,a);
37
     if(k!=n)
     printf("topological ordering is not possible\n");
38
39
     else
40
41
     printf("\n topological ordering is :\n");
42
     for(i=1; i<=k; i++)
43
     printf("v%d\t",temp[i]);
     } }
44
```

```
8
      Console
                 Shell
     clang-7 -pthread -lm -o main main.c
                                                                            Q ×
     ./main
     enter the number of vertices:5
      enter the adjacency matrix
     01100
     00010
     00010
     00001
     00000
      topological ordering is:
 Ħ
     v1 v2 v3 v4 v5 🕨 🛚
```

음+ Invite

Q