```
Topological ordering of vertices
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```
# include (Hdio. h)
#include (stdlib.h)
 int a [10] [10], n, indegree [10];
   void And-indégrée ()
 { int j, i, sum;
   For ( j=0; j (n; j++)
  1
    sum = 0
   for (i=0; i <n; i+t)
   sum + = a [i][j];
   indegree[i] = sum;
   3
   3
    int topology ()
  int
   i, u, v, t [10], s[10], top = -1, h=0;
   Find - indegree ();
   for (i=0; i<n; i++)
  if [indegree [i] = = 0) S[+++ ++++++ ;
  while (+0p! = - 1)
```

```
:[-- a got] 2= N
+ [h++] = u;
 for(v=0; v<n; v++)
  ( [ = = [ v ] [ v ] = = ]
 1
   indegree [v] --;
  if (indegree[v] = = 0) s[++top] = v;
  pointf ( The Topological sequence 17: 1m");
  for (i=0; i < m; i++)
  point ("1.d", t[i]);
  void main ()
 2
   int i, i
  pointfl" Enter no. of vertices: ");
  scanf ("y.d", fn);
  printf (" In Enter the adjancency matrix: In");
  For (i= 0; i < n; i++)
  for (j=0; j <n; j++)
   scanf (4y. d", fa (i)[;];
   topology ();
```

ADA LAB TEST-1

```
Source Removal (Modification)
contespool experience to perfect
#include < stdio. h>
 int temp[10], k=0
void topo (int n, int degree [10], int a [10][10])
 int i, i;
  for (i=1; i <=n; i++)
     if (in degree [i] == 0)
      indegree [i] = 1;
       temp[++k]=i;
          for(j=1;j <=m;j++)
         if [a [i]
    [j]==1f4indegree[j]!=-1)
                  indegree[j]--;
              1= 0;
   void main ()
   int i, j, n, Indegoee [10], a[10][10];
   points ("Enter the number of vertices:");
scanf ("y.d", fn);
```

```
for (i=1; i <=n; i++)
in degree [i] = 0;
printf ("In enter the adjancency matrix In");
  for (i=1; i <= n; i++)
  for (j=1; j<=n;j++)
 1
   scanf (41. d4, 4 a [i][i]);
    if (a[i][j] == 1)
    indegree [j]++;
   topo (n, indegree, a);
   printf (" Topological ordering is not possible In");
   if(k! = n)
   else
    printf ("In Topological ordering is: In");
     for (i=1; i <= h; i++)
    printf ("v/. d/t", temp[i]);
```