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                                      USN: IBMIGCSIZY
                                     ADA LAB TEST 1
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                                      1965
      interested uniques up to the first to the opening to the ter
int temp [10], k=0 top=-1;
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include < stdio. h >

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void topo (int n, int indegree [10], int a [10] [10])
    int i, j:
   for (i=1; i <= n; i++)
        if (indegree [i] = = 0]
         indegree (i)=1;
          temp [++k]=i;
           forlj=1 sje=nsj++)
              if (ali][j] == 1.44 indegree (j] !=-1)
               indegree (j] -- ;
          i=0;
     4
int main()
   int isj, n, indegree [10], a [10][10];
   printf ("enter the number of vertices:");
   scanf ("7.d", gn))
   for (i=1 ; 1 <= n; i++)
```

```
indegree (i) = 0
    prints ("In enter the adjacency matrix In");
     for (i=1; i = n; i++)
      tor ( j= 1 ; i = n ; j++)
      scang ("1.d", & a (1) (1) );
       if (ali][j] ==1)
       indegree (j)++;
      topo (n, indegree, a);
                                                          (1 = -[W][M] D) | i
      if (11=n)
     printf [ "topological ordering is not possible in");
                                             it (replied to 15 (0 + plate by) it
     else
      printf ("In topological ordering is: In");
     for ( i=1; i == k ; i++)
     print ("V".d/t", temp (i)))
   4
                                                      ((111, p()) +1011)
        Modification DJs method.
#include < Italion>
# include < conio.h>
                                        purity (" takes the value of m: );
                                                      (n), 'bs ") (n))
 int a (107) (101), n, indugree (10);
                              il at minous possention wit what of I flowing
 void find_indegree ()
                                                        ( Tri, ani; 101) , -
   int j,i, sum;
                                                     ( nije najeo of ) rot
    for (1=0; icn; i++)
                                               illilias, by sport
    sum + = a [i](j];
    indegre (j ) = sum;
                                                             ch hampalages
```

```
for (i=0; izn si++)
if I indegration ) s[++top]=i;
1
while (top! = -1)
4 = s[top -- ];
+ (x++]=u;
for (v=0; V <n; V++)
 if (a [u][v] == 1)
                      L'ar alditres ton se prisebre sompalaget I train,
 indegre (v) --;
if (idugre(v]==0) s (++ top ]=v;
                            ( of 1) parties beigaloget of 1 + tong
                                                (++1: 1-21:11 1 197
 frints l'The topological sequence is: (n");
                                           Williamote How I then
  for (i=o jicn; i++)
  printf (">d",t (i));
  void moun ()
   int is d;
   print + l" Enter the value of n:");
   scanf (" 1.d", &n);
                                              : Lail Brandon 11, Pail Call 18
   printf l" In Enter ten adjauncy matrix: In" );
    for ( i=0 ; ian ; i++)
      for (j=0 ;jzn ;j++)
      scanf L"1.d", ga [i][j]);
     topologoy ();
```