```
Topological Sorting
Lab 5
# include (stdio, h)
# included time. by
 int math ()
inti, j. K.n. a[10][10], endeg[10], flag[10], count=6;
 clock_t start, end;
 double timen;
 posenty (" enter the na of vertices");
 Stang (" %d", fb);
 printy (" Enter the adjacency matria n");
 Start = clock ();
 for (i=0; "<n; i++)
 painty (" enter 900 %d n", iti);
 tor (j=0; j/n; j++)
   Scang ( ">d", falilij);
for (1=0; 1cn; 1++)
  indeg[i]=0;
  flag [i]=0;
for (1=0; icn; i++)
tar(j=0; j<n; j++)
  indegs:] = indegsi] tasj][i];
 and = clock();
```

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time\_M = (double) (end-stast) / CIUCKS-PERSEC; Bainty ("(tome complexity = 2/5 %", time-u); brintp ("In the topological order is ">h"); Withile (count 2n) For (K=0; K<n; K++) 4 (indeg [k] = =0) 44 (flag(k) = =0)) painty (\$d", CK+1); flag(1c)= 1; for (1:0; ich ; 1++) of (a [][r]==1) indeg[r] -- ; count++; seturno;

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