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EX NO 12

PERFORMING TOPOLOGICAL SORTING

#include <stdio.h>

int main(){

int i,j,k,n=6,indeg[6]={0},flag[6]={0},count=0;

int a[6][6]={{0, 1, 0, 0, 0, 0},

{0, 0, 1, 1, 0, 0},

{0, 0, 0, 0, 0, 1},

{0, 0, 0, 0, 0, 1},

{1, 0, 0, 0, 0, 0},

{0, 0, 0, 0, 0, 0}};

for(i=0;i<n;i++)

{

for(j=0;j<n;j++)

{

indeg[i]=indeg[i]+a[j][i];

}

}

printf("\nThe topological order is:");

while(count<n){

for(k=0;k<n;k++){

if((indeg[k]==0) && (flag[k]==0)){

printf("%d ",(k));

flag[k]=1;

}

for(i=0;i<n;i++){

if(a[i][k]==1)

indeg[k]--;

}

}

count++;

}

return 0;

}