Toplogical Sort

#include<stdio.h>

#include<conio.h>

int main(){

int i,j,k,n,a[10][10],indeg[10],flag[10],count=0;

printf("Enter the no of vertices:\n");

scanf("%d",&n);

printf("Enter the adjacency matrix:\n");

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

printf("Enter row %d\n",i+1);

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

scanf("%d",&a[i][j]);

}

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

indeg[i]=0;

flag[i]=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+1));

flag [k]=1;

}

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

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

indeg[k]--;

} }

count++;

} return 0;

}

