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main.c

```c
#include<stdio.h>
#include<conio.h>
void main()
{
    int a[20][20],rem[20],ind,n,i,j,flag=0,t=0;
    printf("\nEnter the value of n \n");
    scanf("%d",&n);
    printf("\nEnter the adjacency matrix\n");
    for(i=0;i<n;i++)
    {
        rem[i]=0;
        for(j=0;j<n;j++)
        {
            scanf("%d",&a[i][j]);
        }
    }
    while(flag==0)
    {
    flag=1;
        for(i=0;i<n;i++)
        {
            if(rem[i]==0)
            {
                ind=0;
                for(j=0;j<n;j++)
                {
                    if(!(rem[j]==1||a[j][i]==0))
                    {
                        ind=1;
```

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main.c

```
        if(rem[i]==0)
        {
            ind=0;
            for(j=0;j<n;j++)
            {
                if(!(rem[j]==1||a[j][i]==0))
                {
                    ind=1;
                    break;
                }
            }
            if(ind==0)
            {
                printf("%s",t==0?"\nTopological ordering is ":"");
                rem[i]=1;
                printf("%d ",i+1);
                flag=0;
                t++;
                break;
            }
        }
    }
    if(t!=n)
    {
        printf("\nTopological ordering is not possible(it can only be partially ordered)!!");
    }
    getch();
}
```

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main.c

input

```
Enter the value of n
4

Enter the adjacency matrix
0
1
1
0
0
0
0
1
0
1
0
0
0
0
0
0

Topological ordering is 1 3 2 4

...Program finished with exit code 255
Press ENTER to exit console.
```

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main.c

input

```
Enter the value of n
3

Enter the adjacency matrix
0
1
0
0
0
1
1
0
0

Topological ordering is not possible(it can only be partially ordered)!!

...Program finished with exit code 255
Press ENTER to exit console.
```

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