```c
#include<stdio.h>
void DFS(int);
int G[10][10],visited[10],n;   //n is no of vertices and graph is sorted in array G[10][10]

void main()
{
int i,j;
printf("Enter number of vertices:");

scanf("%d",&n);

//read the adjecency matrix
printf("\nEnter adjecency matrix of the graph:");

for(i=0;i<n;i++)
for(j=0;j<n;j++)
scanf("%d",&G[i][j]);
```

```c
//visited is initialized to zero
for(i=0;i<n;i++)
visited[i]=0;

DFS(0);
}

void DFS(int i)
{
int j;
printf("\n%d",i);
visited[i]=1;

for(j=0;j<n;j++)
if(!visited[j]&&G[i][j]==1)
DFS(j);
}
```
Output

```
Enter number of vertices:4

Enter adjecency matrix of the graph:
0 1 1 0
0 0 1 1
0 1 1 1
0 0 1 1

0
1
2
3

...Program finished with exit code 4
Press ENTER to exit console.
```