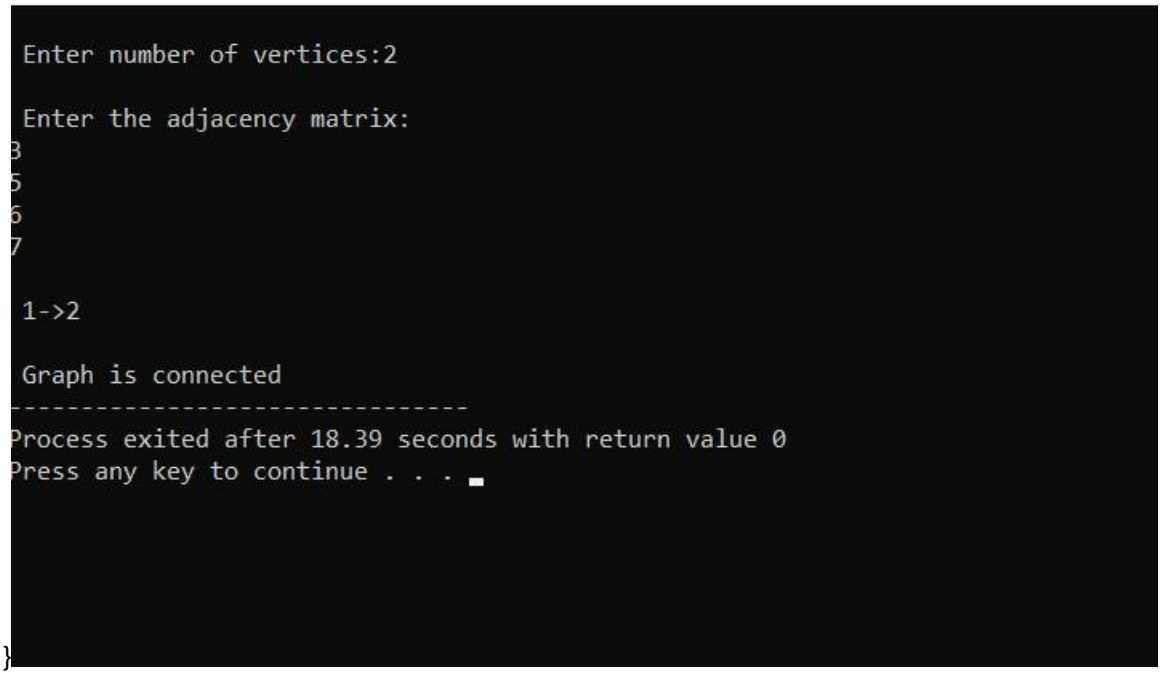
```
#include<stdio.h>
#include<conio.h>
int a[20][20],reach[20],n;
void dfs(int v) {
int i;
reach[v]=1;
for (i=1;i<=n;i++)
 if(a[v][i] && !reach[i]) {
printf("\n %d->%d",v,i);
dfs(i);
}
}
int main() {
int i,j,count=0;
printf("\n Enter number of vertices:");
scanf("%d",&n);
for (i=1;i<=n;i++) {
reach[i]=0;
for (j=1;j<=n;j++)
 a[i][j]=0;
}
printf("\n Enter the adjacency matrix:\n");
for (i=1;i<=n;i++)
 for (j=1;j<=n;j++)
 scanf("%d",&a[i][j]);
dfs(1);
printf("\n");
for (i=1;i<=n;i++) {
if(reach[i])
 count++;
}
```

```
if(count==n)
 printf("\n Graph is connected"); else
 printf("\n Graph is not connected");
```




```
}
```