```
#include<stdio.h>
#include<conio.h>
int a[20][20],q[20],visited[20],n,i,j,f=0,r=-1;
void bfs(int v) {
        for (i=1;i<=n;i++)
         if(a[v][i] && !visited[i])
          q[++r]=i;
        if(f<=r) {
                 visited[q[f]]=1;
                 bfs(q[f++]);
        }
}
void main()
{
        int v;
        printf("\n Enter the number of vertices:");
        scanf("%d",&n);
        for (i=1;i<=n;i++) {
                 q[i]=0;
                 visited[i]=0;
        }
        printf("\n Enter graph data in matrix form:\n");
        for (i=1;i<=n;i++)
         for (j=1;j<=n;j++)
          scanf("%d",&a[i][j]);
        printf("\n Enter the starting vertex:");
        scanf("%d",&v);
        bfs(v);
        printf("\n The node which are reachable are:\n");
        for (i=1;i<=n;i++)
         if(visited[i])
```