```
#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 \le 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;
      clrscr();
     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 \le 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])
        printf("%d\t",i); else
         printf("\n Bfs is not possible");
      getch();
```