Code:

```c
#include<stdio.h>
#include<conio.h>

void insertq(int q[],int node, int *f, int *r)
{
   if((*f==-1) && (*r==-1))
   {
      (*f)++, (*r)++, q[*f]=node;
   }
   else{
     (*r)++, q[*r]=node;
      }
  }

  int deleteq(int q[],int *f,int *r)
  {
     int temp;
     temp=q[*f];
     if(*f == *r) *f=*r=-1;
     else (*f)++;
     return temp;
   }
```

```c
   void bfs(int n, int adj[][10],int src, int visited[])
   {
     int q[20], f=-1,r=-1,v,i;
     insertq(q,src,&f,&r);
     while((f <=r ) && (f != -1))
     {
         v=deleteq(q,&f,&r);
         if(visited[v]!=1)
         {
              visited[v]=1;
               printf("%d",v);
          }
          for(i=1;i<=n;i++)
               if((adj[v][i]==1) && (visited[i] !=1))
            insertq(q,i,&f,&r);
       }
     }
```

```
41      void main()
42      {
43     int n,i,j,adj[10][10],src,visited[10];
44     //clrscr();
45     printf("enter number of vertices\n");
46     scanf("%d",&n);
47     printf("Enter adjacency matrix\n");
48     for(i=1;i<=n;i++)
49     {
50            visited[i]=0;
51       for(j=1;j<=n;j++)
52          scanf("%d",&adj[i][j]);
53      }
54      printf("enter starting vertex\n");
55      scanf("%d",&src);
56      printf("The nodes reachable from src are\n");
57      bfs(n,adj,src,visited);
58      getch();
59        }
```

Output:

```
enter number of vertices
4
Enter adjacency matrix
1 1 0 1
0 0 0 1
0 1 0 1
1 1 0 0
enter starting vertex
1
The nodes reachable from src are
124

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