

enter no of nodes:3

Enter the adjacency matrix:1

0

1

0

1

0

1

0

1

The nodes visited from 0:02

The nodes visited from 1:1

The nodes visited from 2:20

BFS 26/02/24

#include &lt;stdio.h&gt;

Void bfs (int a[10][10], int n, int v)

{

int f, r, a[10], v;

int s[10] = {0};

printf("the nodes visited from %d:", v);

f=0;

r=-1;

q[++r]=v;

s[v]=1;

printf("%d", v);

while (f &lt;= r)

{

v = q[f++];

for (v=0; v&lt;n; v++) {

if (a[v][v] == 1) {

if (s[v] == 0) {

printf("%d", v);

s[v]=1;

q[++r]=v;

}

}

}

printf("\n");

}

O/p: enter no. of nodes : 3

Enter the adjacency matrix :

0 1 0 1

0 0 0 1

1 0 1

0 1 0

1 0 1

The nodes starting for bfs: 0

visited 0

visited 2.

```
Enter the number of vertices: 3
Enter the adjacency matrix:
1
0
1
0
1
0
1
0
1
0
1
Enter the starting vertex for DFS: 0
Visited 0
Visited 2
```



DFS 26/02/24

```

#include <stdio.h>
#include <stdlib.h>
#define MAX_VERTICES 20

int graph[MAX_VERTICES][MAX_VERTICES];
int visited[MAX_VERTICES];
int n;

void dfs(int start) {
    int i;
    visited[start] = 1;
    printf("visited %d\n", start);
    for (i = 0; i < n; i++) {
        if (graph[start][i] && !visited[i]) {
            dfs(i);
        }
    }
}

```

O/p:

Enter the number of vertices : 3

Enter the adjacency matrix;

1 0 1

0 1 0

1 0 1

Enter the starting vertex for DFS : 0

Visited 0

Visited 2

26.02.24