1. BFS

```
#include<stdio.h>
#include <queue>
int V = 5;
int visited[5];
int G[5][5] = {
         \{0,1,0,0,1\},\
         {1,0,0,1,1},
         \{0,0,0,1,0\},\
         \{0,1,1,0,1\},\
         {1,1,0,1,0}
      };
void BFS(int v)
{
  std::queue<int> Q;
  visited[v] = 1;
  printf("%d ", v);
  Q.push(v);
  while(!Q.empty())
     int current = Q.front();
     Q.pop();
     for(int j=0; j<V; j++)
     {
        if(G[current][j]==1 && visited[j]==0)
        {
           visited[j] = 1;
           printf("%d ", j);
           Q.push(j);
        }
     }
```

```
}
int main()
{
    BFS(0);
}
```

2. DFS

```
#include<stdio.h>
int V = 5;
int visited[5];
int G[5][5] = {
         \{0,1,0,0,1\},
         {1,0,0,1,1},
         \{0,0,0,1,0\},
         \{0,1,1,0,1\},
         {1,1,0,1,0}
      };
void DFS(int current)
{
  visited[current] = 1;
  printf("%d ", current);
  for(int j=0; j<V; j++)
  {
     if(G[current][j]==1 && visited[j]==0)
     {
        DFS(j);
     }
  }
}
```

```
int main()
{
    DFS(0);
}
```