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#Undirected graph where each node is connected to their adjacent node on both ways
graph = {"francfurt":["mainhain", "wulzburg", "kassel"],
        "mainhain": ["karlsruhe", "francfurt"],
        "wulzburg": ["francfurt", "numburg", "earthfurt"],
        "kassel": ["francfurt", "munchen"],
        "karlsruhe": ["ausburg", "mainhain"],
        "numburg": ["statgaurd", "wulzburg"],
        "ausburg":["karlsruhe"],
        "statgaurd":["numburg"],
        "earthfurt":["wulzburg"],
        "munchen":["kassel"]}

visited_list=[]

def DFS2(node1,target_node):
    """
    """
    visited_list.append(node1)
    if node1==target_node:
        return True
    for i in graph[node1]:
        if i not in visited_list:
            if DFS2(i,target_node):
                return True
    return False

DFS2("numburg","kassel")
print(visited_list)

    ['numburg', 'statgaurd']

visited_list=[]

queue_list=[]

def BFS2(node1,target_node):
    """
    """
    visited_list.append(node1)
    if node1==target_node:
        return True
    for i in graph[node1]:
        if i not in visited_list and i not in queue_list:
            queue_list.append(i)
            # if BFS2(i,target_node):
            #     return True
    if queue_list:
        node1=queue_list.pop(0)
        if BFS2(node1,target_node):
            return True
    return False

BFS2("francfurt","munchen")
print(visited_list)
# print(queue_list)

    ['francfurt', 'mainhain', 'wulzburg', 'kassel', 'karlsruhe', 'numburg', 'earthfurt', 'munchen']

```