

```
In [2]: def dfs(graph, node, visited):
        if node not in visited:
            print(node)
            visited.add(node)
            for neighbor in graph[node]:
                dfs(graph, neighbor, visited)

        # sample graph represented as an adjacency List
        graph = {
            'A': ['B', 'C'],
            'B': ['A', 'D', 'E'],
            'C': ['A', 'F', 'G'],
            'D': ['B'],
            'E': ['B'],
            'F': ['C'],
            'G': ['C']
        }
        dfs(graph, 'A', set())
```

A
B
D
E
C
F
G

```
In [3]: def bfs(graph, start):
        visited, queue = set(), [start]
        while queue:
            vertex = queue.pop(0)
            if vertex not in visited:
                visited.add(vertex)
                queue.extend(graph[vertex]-visited)
        return visited

        # sample graph represented as an adjacency List
        graph = {
            'A': set(['B', 'C']),
            'B': set(['A', 'D', 'E']),
            'C': set(['A', 'F', 'G']),
            'D': set(['B']),
            'E': set(['B']),
            'F': set(['C']),
            'G': set(['C'])
        }
        bfs(graph, 'A')
```

Out[3]: {'A', 'B', 'C', 'D', 'E', 'F', 'G'}

In []: