BFS and DFS Algorithms

Breadth-First Search (BFS) Algorithm

```
from collections import deque
def bfs(graph, start):
  visited = set()
  queue = deque([start])
  while queue:
     node = queue.popleft()
     if node not in visited:
        print(node, end=' ')
        visited.add(node)
        queue.extend(neighbor for neighbor in graph[node] if neighbor not in visited)
graph = {
  'A': ['B', 'C'],
  'B': ['D', 'E'],
  'C': ['F'],
  'D': [],
  'E': ['F'],
  'F': []
}
print("BFS Traversal:")
```

BFS and DFS Algorithms

```
bfs(graph, 'A')
```

Depth-First Search (DFS) Algorithm

```
def dfs(graph, node, visited=set()):
  if node not in visited:
     print(node, end=' ')
     visited.add(node)
     for neighbor in graph[node]:
        dfs(graph, neighbor, visited)
graph = {
  'A': ['B', 'C'],
  'B': ['D', 'E'],
  'C': ['F'],
  'D': [],
  'E': ['F'],
  'F': []
}
print("DFS Traversal:")
dfs(graph, 'A')
```