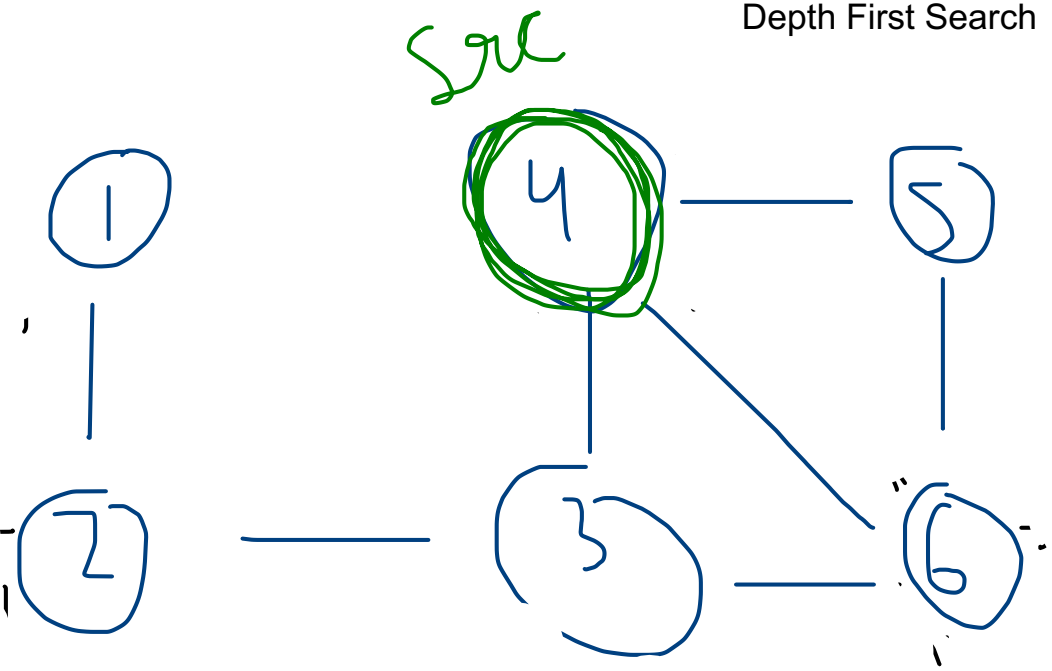
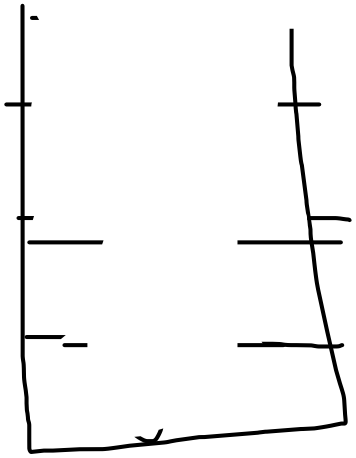
Depth First Search



4 → 1 → 6 → 5

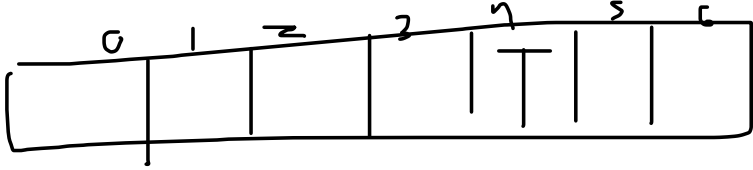
4 → 3 → 2 → 1



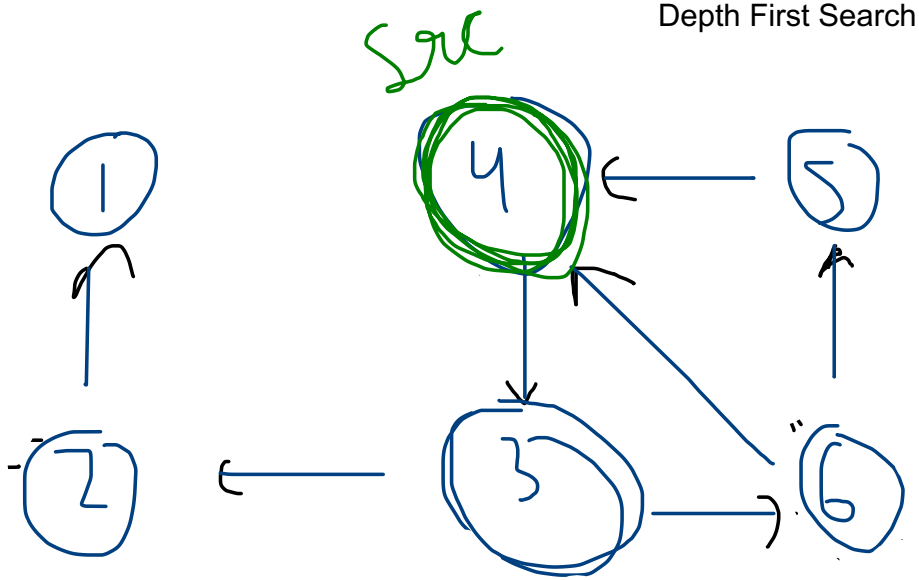
4 → 5 → 6 → 3 → 2 → 1

4 → 6 → 5

4 → 6 → 1 → 2 → 1



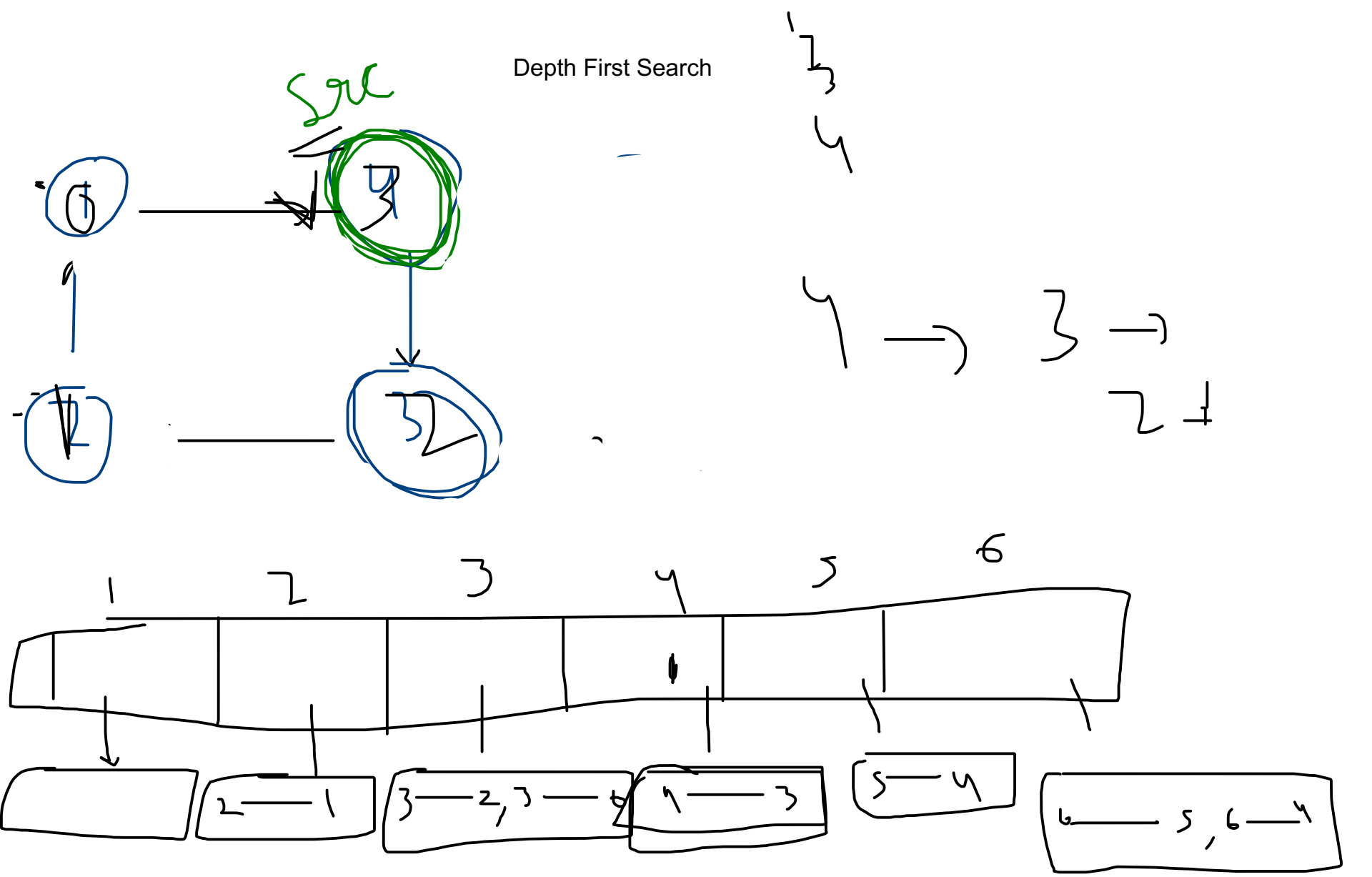
Depth First Search

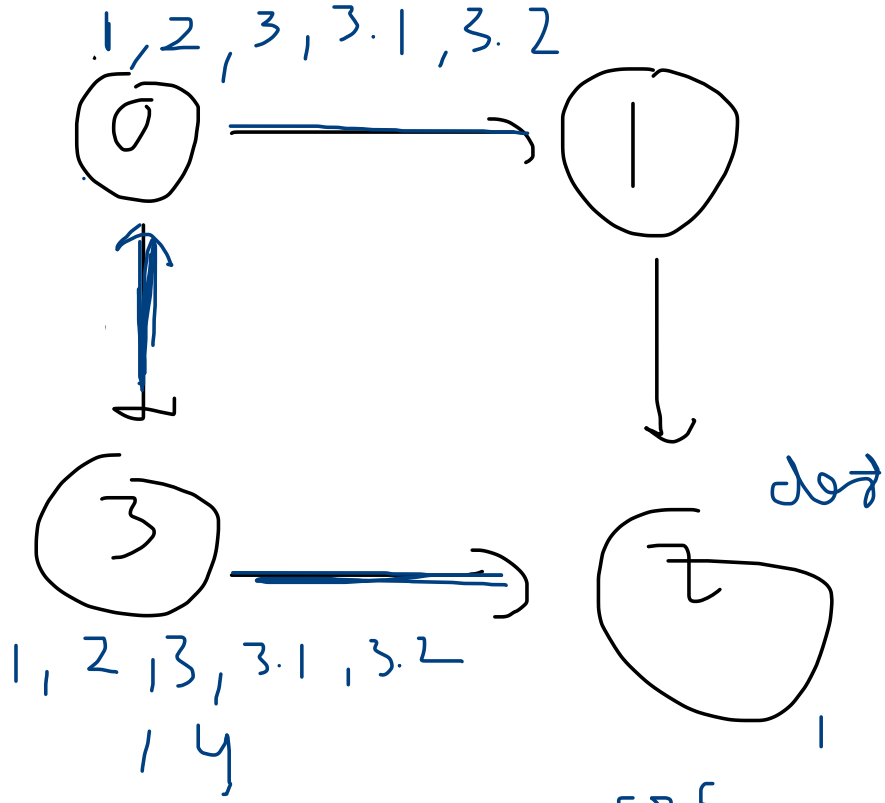


4 → 3 → 2 → 1

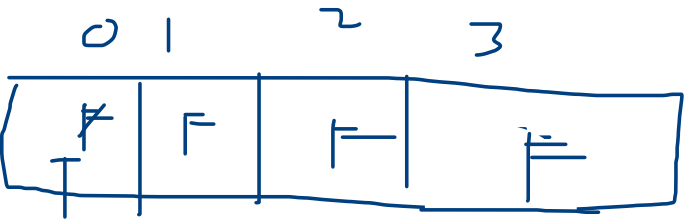
4 → 3 → 6 → 5

Depth First Search

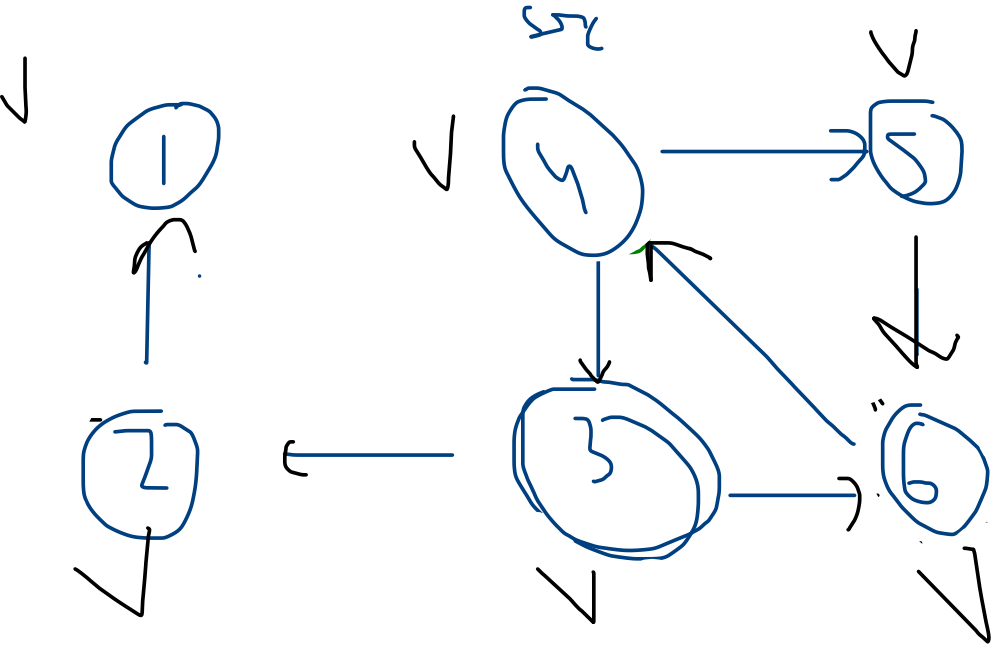




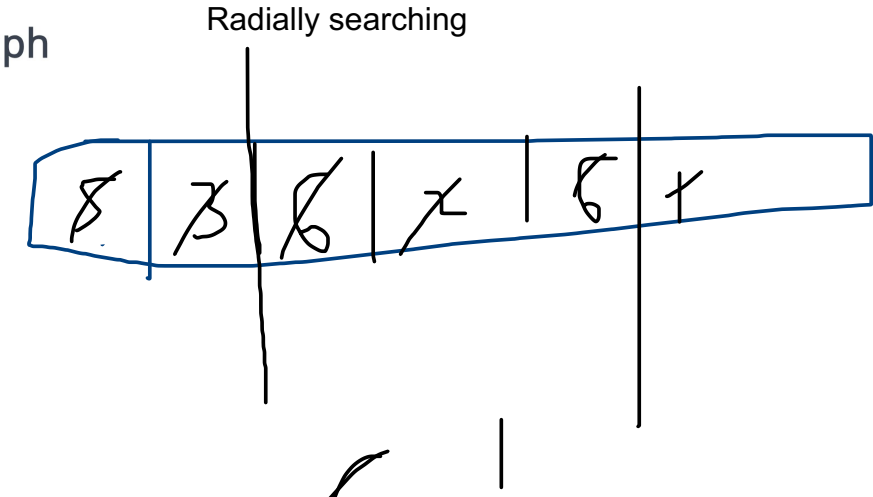

```java
if (srcVertex == dest){
    System.out.println(path);
    return;
}


visited[srcVertex] = true;

for (Edge e: graph[srcVertex]) {

    if (!visited[e.nbr]) {
        dfs(e.nbr, graph, visited, dest, path + e.nbr);
    }
}

visited[srcVertex] = false; // backtracking
```

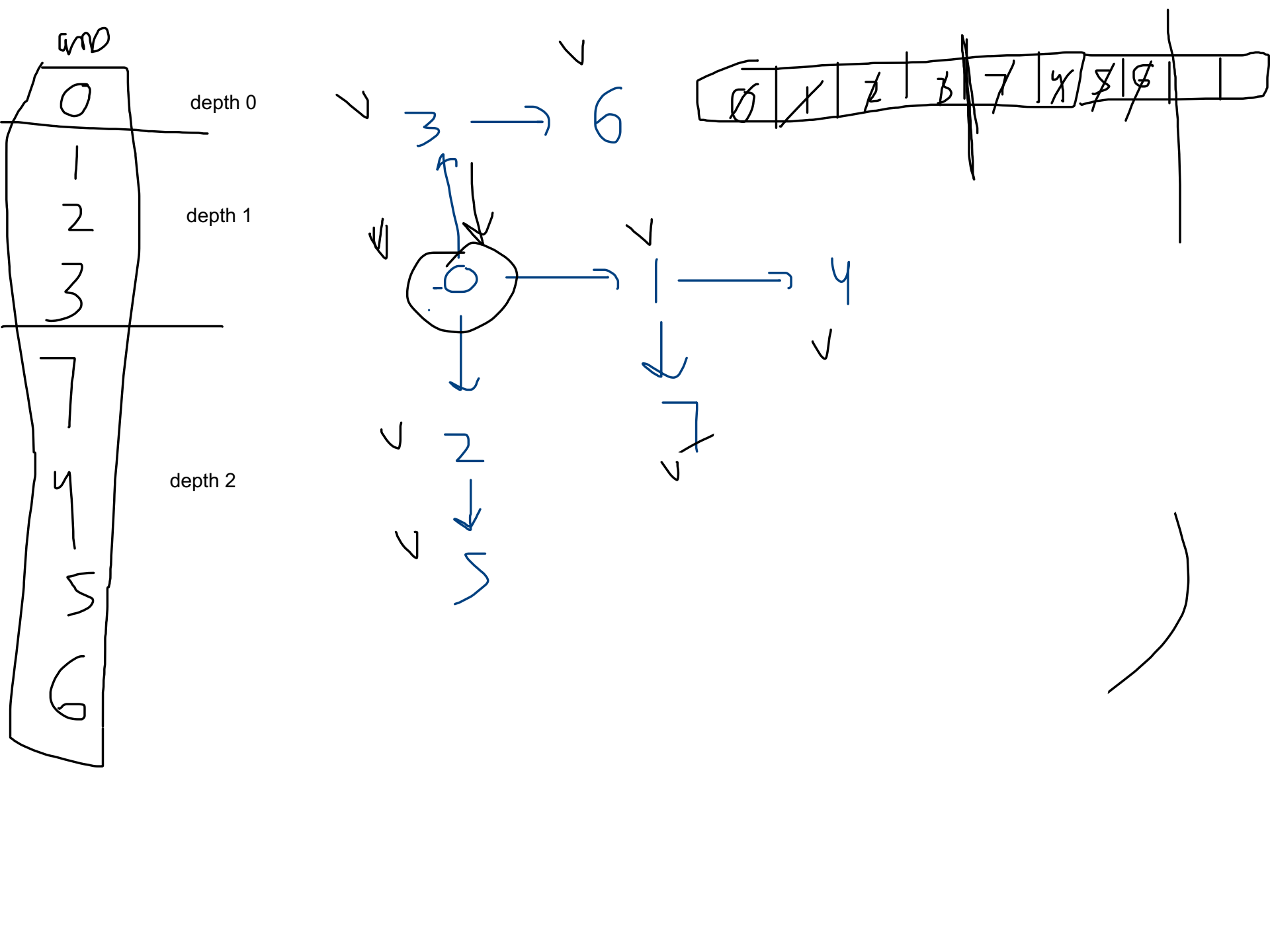


BFS (Breadth-First Traversal) of Graph



Radially searching




end
depth 0
depth 1
depth 2