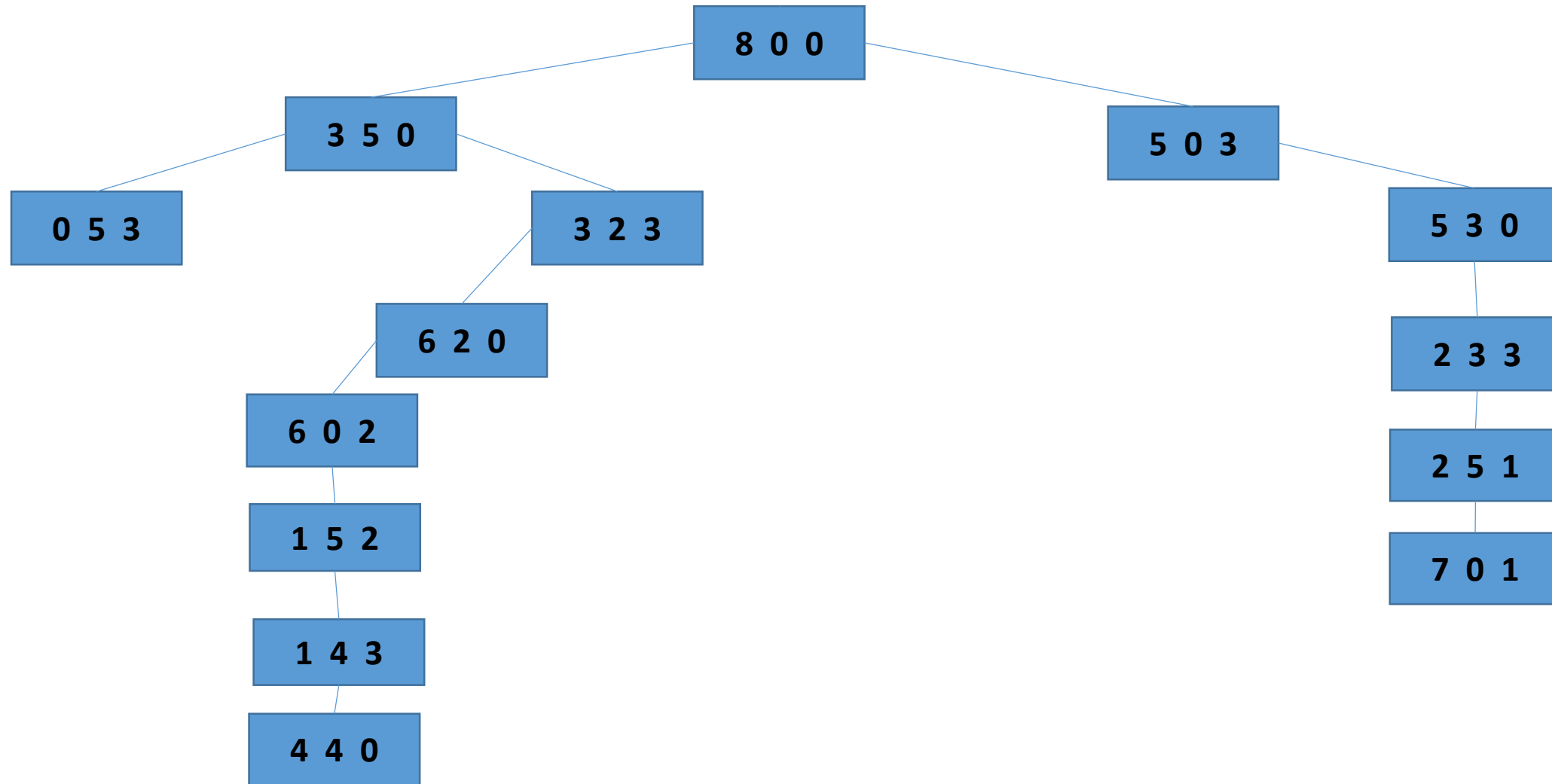# Backtracking: Jug Puzzle

- Input: Capacities of the bowls 8 5 3   Final   4 4 0

- Backtracking Algorithm can be thought of as **dynamic BFS/DFS**

Backtracking

- Q.enqueue(initial)
- While(!Q.isEmpty()) {
  - state = Q.dequeue();
  - If(state == final) {
  - print the states from initial to final
  - }
  - Generate all possible next states which are not yet generated, and enqueue them into Q.
- }
- Maintaining Queue/Stack and the visited Linked list.