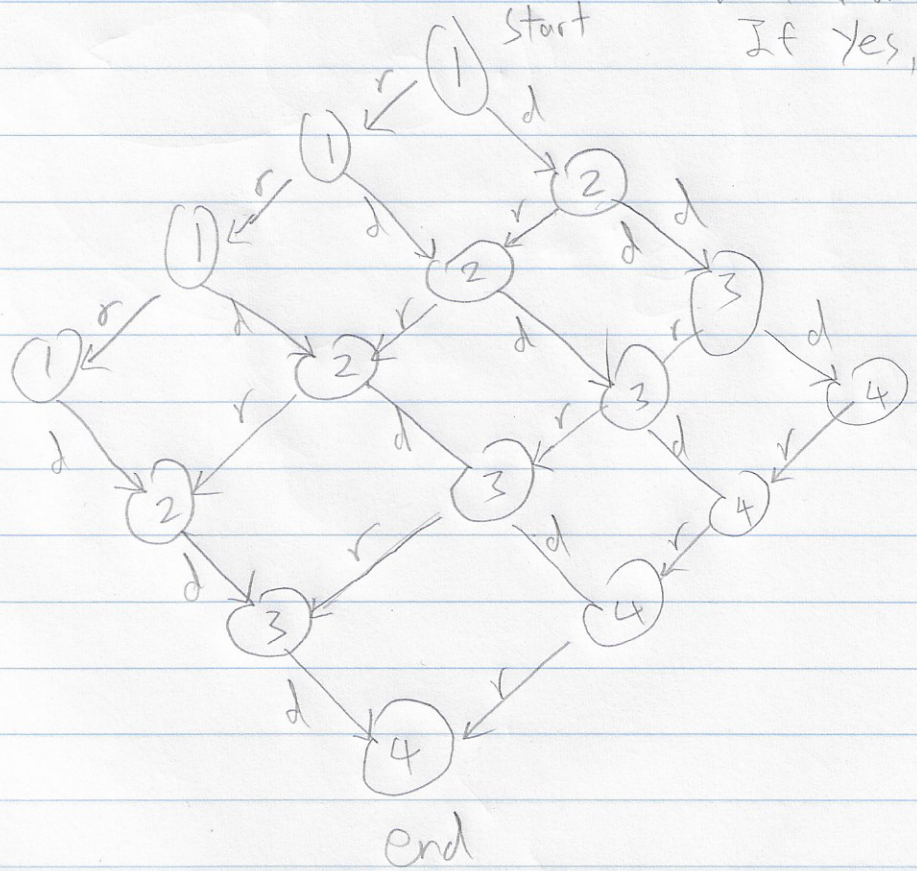
Operations for the right Sum

Q1

1 → 1 → 1 → 1 ↓
2 2 2 ↓
2 2 2 2 ↓
3 3 3 3 ↓
4 4 4 4

Idea: use DFS and get all paths from start to end each path has a distance attribute. Sort the paths from least distance to highest. Binary Search if ∃ a path with dist = sum. If yes, print this path.



Given any sum, I want a path from start to end.