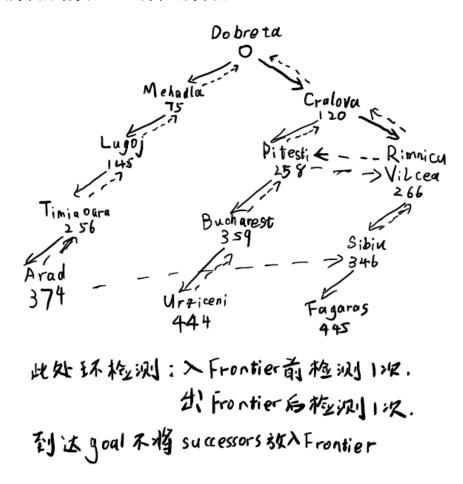
AI (Fall 2020) - Assignment 1

Search and game tree search Due: 11:59pm, Tuesday, Sept. 29, 2020

1. Consider travel in Romania from Drobeta to Fagaras. Trace the operation of uniform-cost search with cycle-checking: draw the search tree. 图中画的节点均为从Fontier内取出的节点



2. The missionaries and cannibals problem (see the lecture notes): Consider the case of M = 3 and K = 2. Use the heuristic function h(n) = M + C - 2B. Trace the operation of A^* with cycle checking: Draw the search tree; for each node, mark its g and h values.

3. Perform alpha beta pruning on the following game tree and compute the utility value of the root.

