Name:

Worksheet: L03 – Search

CSCI-534: Robot Planning & Manipulation

Spring 2020

http://www.neil.dantam.name/rpm/B03-search.pdf

1. **Search Domains – Automobile Navigation:** Pose navigation from Denver to Seattle as a search / planning problem:
   (a) What is the state space?
   (b) What is the start state?
   (c) What are the goal state(s)?
   (d) What is the transition function?

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2. **Iterative Deepening:** Solve the 3-peg, 2-disk Tower of Hanoi problem via Iterative Deepening Search:

3. **Bidirectional Search:** Solve the 3-peg, 2-disk Tower of Hanoi problem via Bidirectional Search:

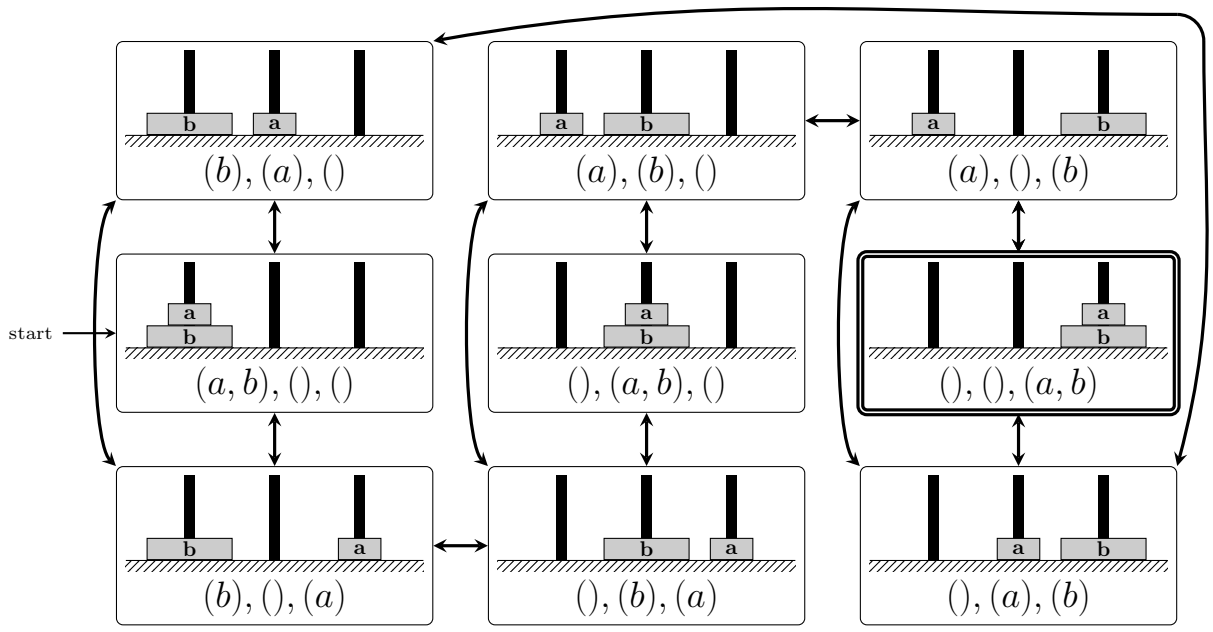

Figure 1: Transition Diagram for 3-peg, 2-disc Tower of Hanoi Problem