























def search(state): if state.is.goal(): return state else: for s in state.next_states(): result = search(s) if result! = None: return result return None return result How is this different?

def search(state): if state.is_goal(): return state else: for s in state.next_states(): result = search(s) if result != None: return result return None return None Returns ALL solutions found, not just one

Missionaries and Cannibals

Three missionaries and three cannibals wish to cross the river. They have a small boat that will carry up to two people. Everyone can navigate the boat. If at any time the Cannibals outnumber the Missionaries on either bank of the river, they will eat the Missionaries. Find the smallest number of crossings that will allow everyone to cross the river safely.

What is the "state" of this problem (it should capture all possible valid configurations)?

Missionaries and Cannibals

Three missionaries and three cannibals wish to cross the river. They have a small boot that will carry up to two people. Everyone can navigate the boot. If at any time the Cannibals outnumber the Missionaries on either bank of the river, they will eat the Missionaries. Find the smallest number of crossings that will allow everyone to cross the river safely.

