Component of a Problem

Initial State (初始状态)

Actions(state) → {action1，action2, action3......} (the function Actions(state) that take a state as input and output a set of actions)

Result(state,action) → new state (the function Result(state,action) take a state and a action as input and output a new state)

GoalTest(state) → True/False (the function GoalTest(state) take a state as input and output a boolean value True/False)

PathCost(Sequence of state-action transition) → n (the function PathCost(Sequence of state-action transition) take a sequence of state-action transition as input and output the cost of this path)