

AI coding Homework 4

Hong Pengfei 1002949

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1 Q1

Domain file is defined with name q1-domain.pddl.

2 Q2

Problem file is defined with name q2-problem.pddl

This is the solution found online [1](#), the solution is:

1. move Truck from tampinese to bedok
2. load package at bedok
3. move Truck from bedok to changi
4. unload package at changi

3 Q3

Problem file is q3-problem.pddl and domain file is q3-problem.pddl

This is the solution found online [2](#), solution is:

1. move truck from tampinese to changi
2. load package2 at changi
3. move truck from changi to bedok
4. unload package2 at bedok
5. load package1 at bedok
6. move truck from bedok to changi
7. unload package1 at changi

Found Plan (output)

(move tampinese bedok)	<pre>(:action move :parameters (tampinese bedok) :precondition (and (truck-in tampinese) (connected tampinese bedok)) :effect (and (truck-in bedok) (not (truck-in tampinese))))</pre>
(load bedok)	
(move bedok changi)	
(unload changi)	

Figure 1: Solution For Q2

Found Plan (output)

(move tampinese changi)	<pre>(:action move :parameters (tampinese changi) :precondition (and (truck-in tampinese) (connected tampinese changi)) :effect (and (truck-in changi) (not (truck-in tampinese))))</pre>
(load pkg2 changi)	
(move changi bedok)	
(unload pkg2 bedok)	
(load pkg1 bedok)	
(move bedok changi)	
(unload pkg1 changi)	

Figure 2: Solution For Q3