

Planning Study Guide

Artificial Intelligence

1 Symbolic Planning

1. What is the closed world assumption?
2. What are the two main limitations of atomic state-space search for planning?
3. How does Planning Domain Definition Language (PDDL) planning address the limitations of atomic state-space search?
4. Is $At(Truck_1, Melbourne)$ a ground atomic fluent? Why, or why not?
5. Is $At(t_1, from)$ a ground atomic fluent? Why, or why not?
6. Assuming the following action schema:
$$Action(Fly(p, from, to),$$
$$PRECOND : At(p, from) \wedge Plane(p) \wedge Airport(from) \wedge Airport(to)$$
$$EFFECT : \neg At(p, from) \wedge At(p, to))$$
after $Fly(P_1, SFO, JFK)$, what is true about P_1 ?