

Introduction to AI -Tutorial Planning-

Assignment Project Exam Help

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STRIPS: rocket domain

1. Formulate the rocket domain below in STRIPS. There are three possible actions:
 - to load a piece of cargo into a rocket
 - to unload a piece of cargo from a rocket
 - to move a rocket from a location to anotherwhere
 - for a rocket to be moved, it must have fuel, and moving uses up fuel
 - for a piece of cargo to be loaded/unloaded into/from a rocket, cargo and rocket must be at the same location
2. Modify your formulation of the *rocket domain* to accommodate fuel as a resource that can be consumed and produced

Graph-plan

Apply GRAPHPLAN to the shopping domain with

actions:

Go(x) *preconditions:* $At(y), x \neq y$ *effects:* $\neg At(x), At(y)$

Buy(x) *preconditions:* $At(s), Sells(s, x)$ *effects:* $Have(x)$

start state: $At(H), Sells(BS, B), Sells(SM, A), Sells(SM, M)$

goal: $At(H), Have(M), Have(A), Have(B)$

Show explicitly the graph (including mutex) for S0, A0, S1

Return the computed plan explicitly, and indicate the level at which the plan can be extracted.