Prodigy

- A classical STRIPS-style planner
 - Domain Representation: objects, operators
 - Problem Representation: initial state, goal state
- Operators have preconditions and effects

Example - Blocksworld

(On A B)
(On B Table)
(On C Table)
(Clear A)
(Clear C)
(Clear Table)
(Arm-empty)

Initial State

A C

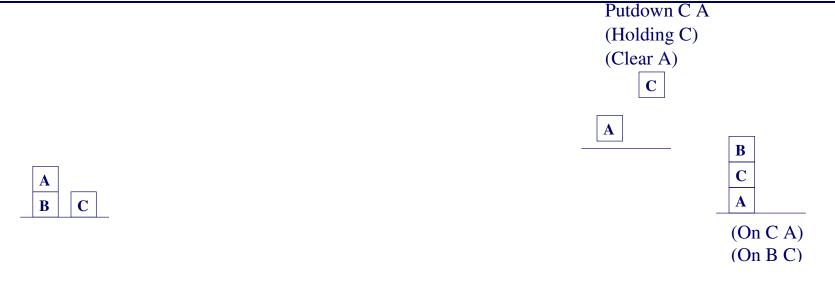
B C

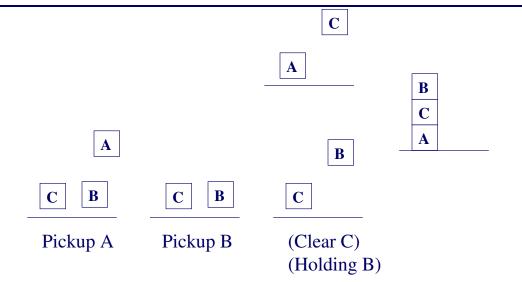
A

(On C A)

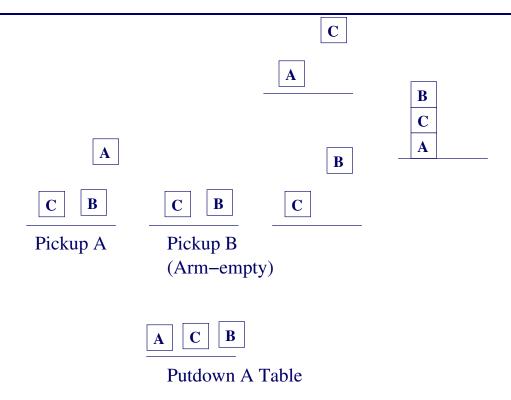
(On B C)

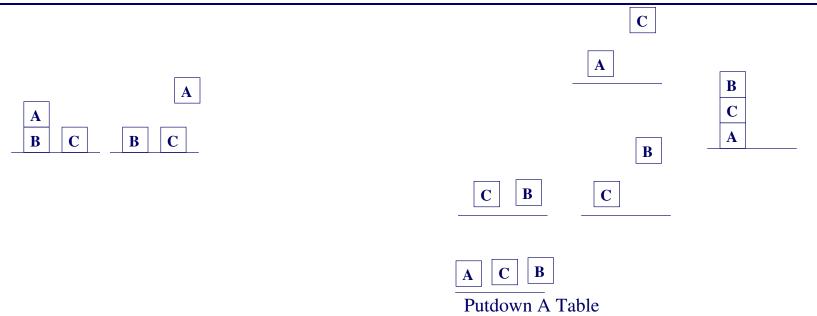
[+ whatever]

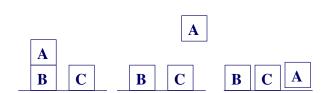


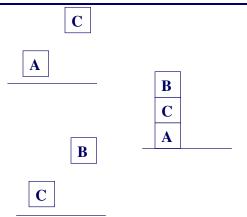


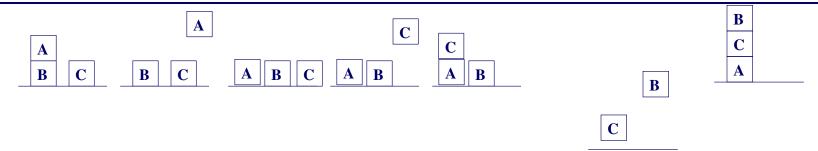
C











Issues in Planning

- Representations
- Algorithms
- Conditional effects
- Dynamic worlds
- Mixing planning and execution
- Learning
- Large-scale applications

Fairly mature field

Example - Blocksworld

(On A B)
(On B Table)
(On C Table)
(Clear A)
(Clear C)
(Clear Table)
(Arm-empty)

Initial State

A C

B C

A

(On C A)

(On B C)

[+ whatever]