move(state(middle,onbox,middle,hasnot),

grasp,

state(middle,onbox,middle,has)).

move(state(P,onfloor,P,H),

climb,

state(P,onbox,P,H)).

move(state(P1,onfloor,P1,H),

drag(P1,P2),

state(P2,onfloor,P2,H)).

move(state(P1,onfloor,B,H),

walk(P1,P2),

state(P2,onfloor,B,H)).

canget(state(\_,\_,\_,has)).

canget(State1) :-

move(State1,\_,State2),

canget(State2).

Queries:

?- canget(state(middle, onfloor, middle, hasnot)).