NON LINEAR PLANNING EXAMPLE

Given the following initial state ontable(a,p1), ontable(d,p3), on(c,d), ontable (b,p2), clear(a), clear(c), clear(b), handempty and the goal ontable(a,p2)

Actions are described as follows

pickup(X,Pos)

PRECOND: ontable(X,Pos), clear(X), handempty DELETE: ontable(X,Pos), clear(X), handempty

ADD: holding(X), empty(Pos)

putdown(X,Pos)

PRECOND: holding(X), empty(Pos)
DELETE: holding(X), empty(Pos)

ADD: ontable(X,Pos), clear(X), handempty

stack(X,Y)

PRECOND: holding(X), clear(Y)
DELETE: holding(X), clear(Y)

ADD: handempty, on(X,Y), clear(X)

unstack(X,Y)

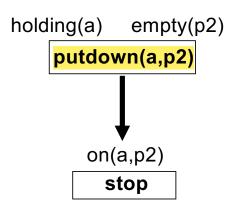
PRECOND: handempty, on(X,Y), clear(X) DELETE: handempty, on(X,Y), clear(X)

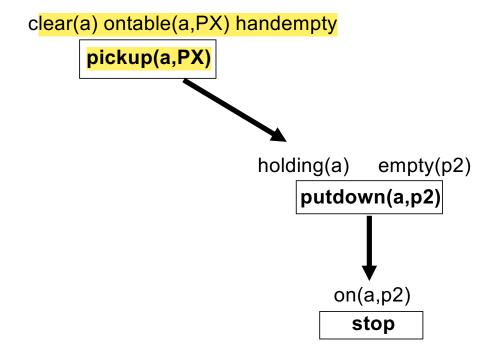
ADD: holding(X), clear(Y)

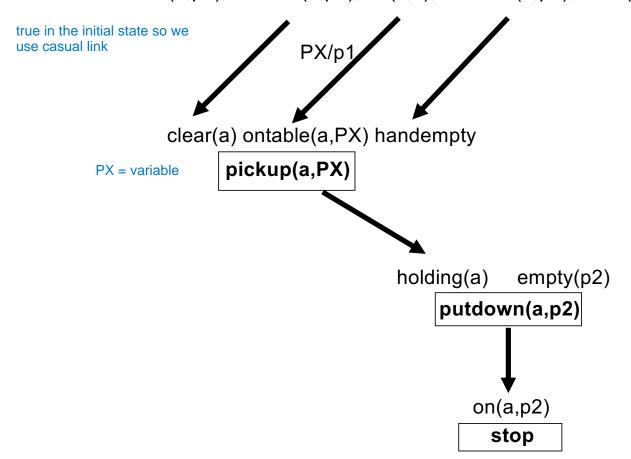
ontable(a,p1), ontable(d,p3), on(c,d), ontable (b,p2), clear(a), clear(c), clear(b), handempty

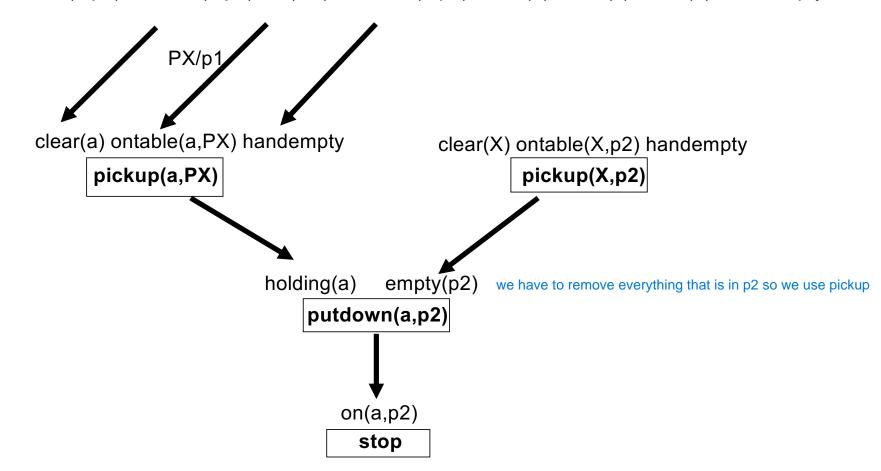
on(a,p2)

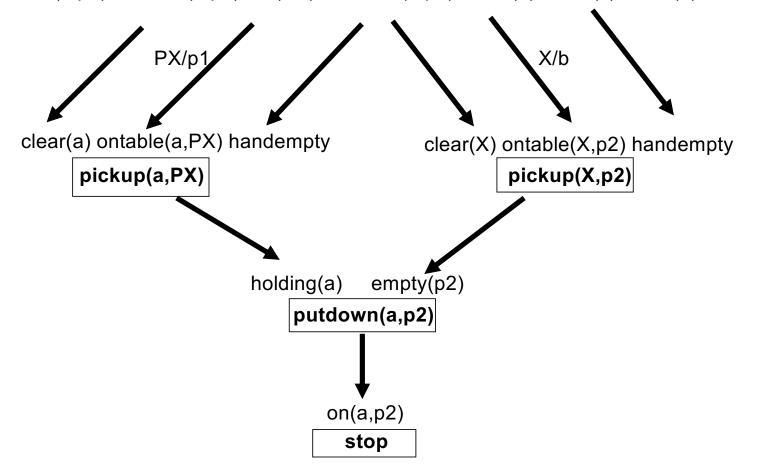
stop

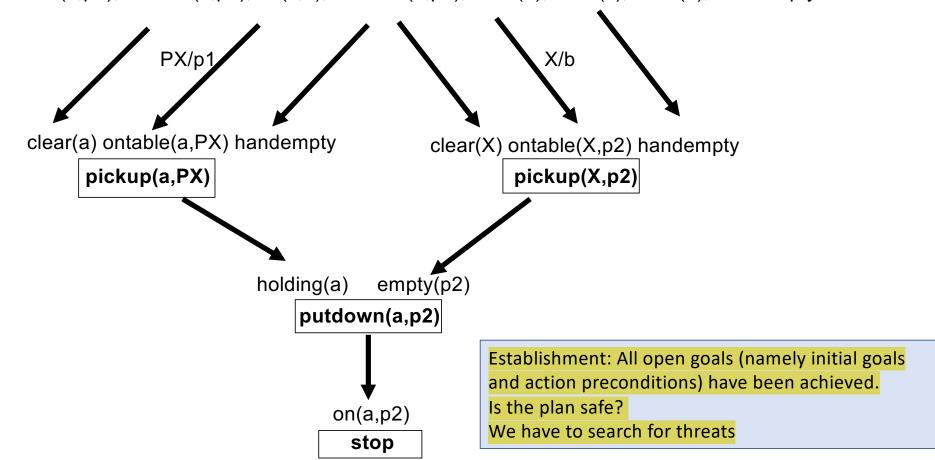


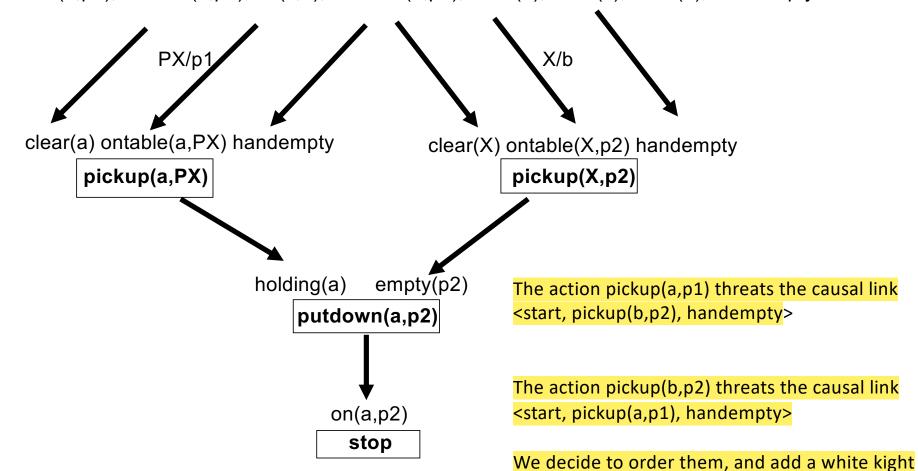












on(a,p2)

stop

