Agent is at hardware store (HWS). Agent has to buy milk and eggs from supermarket and return home.

Start State:

At(HWS) ∧ ¬ Have (Milk) ∧¬ Have (Eggs) ∧ Sells (SM,Milk) ∧ Sells (SM,Eggs)

Goal State:

At(Home) ∧ Have (Milk) ∧ Have (Eggs)

Actions Available:

Op(ACTION: Go (there)
PRECOND:At(here)
EFFECT: At(there) ∧ ¬ At(here))

Op(ACTION:Buy(x)
PRECOND:At(store) ∧ Sells(store,x)
EFFECT:Have(x))