5.7 Dan wants to wash his clothes with a washing machine wm, wash his dishes in a dishwasher dw, and bathe in a bathtub bt. The water supply doesn't have enough pressure to do more than one of these activities at once. Here is a classical representation of the problem:

Corrections to the problem representation are shown in red.

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to do more than one of these activities at once. Here is a classical representation of
                        Corrections to the problem representation are shown in red
   Initial state: status(dw,ready), status(wm,ready), status(bt,ready),
        clean(dan,0), clean(clothes,0), clean(dishes,0),
        loc(dishes,dw), loc(clothes,wm), loc(dan,bt), use(water,0)
   Goal formula: clean(clothes,*), clean(dishes,*), clean(dan,*)
   Operators:
start-fill(x)
                                                end-fill(x)
                                                            status(x,fill)
 precond:
            status(x, ready), \neg use(water)
                                                precond:
 effects:
                                                effects:
                                                            status(x,full), \neg status(x,fill),
            status(x,fill), \neg status(x,ready)
            use(water)
                                                            ¬use(water)
                                  end-wash(x, y)
start-wash(x)
            status(x,full)
                                   precond:
                                              status(x, wash)
 precond:
 effects:
            status(x, wash)
                                   effects:
                                              status(x,ready), clean(y), \neg status(x,wash)
             \negstatus(x,full)
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Corrections to Figure 5.11 are shown in red \_use(water) status(bt,fill) status(bt, full) status(bt, wash) end-fill(bt) start-wash(bt) start-fill(bt) end-wash (bt, dan) status(dw,fill) status(wm,full) status (wm, wash) clean(dan)  $a_0$ start-fill(wm) end-fill(wm) start-wash(wm) end-wash(wm,clothes) clean(clothes) → clean(dishes) a\_ status(dw, wash) status (dw, fill) status(dw,full) start-fill(dw) end-fill(dw) start-wash (dw) end-wash(dw,dishes)