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**Problem Set 3: Problems 1 and 2**

* 1. Line 2: ocular allergy, line 3: treat with anti-allergy eyedrops
  2. DALK/PK
  3. Lines 11 and 13 need to be switched
  4. Line 19 should be moved and placed between lines 17 and 18 because in its current location, all paths would result in giving CL/Scleral lenses, but not all paths actually end with that result, only those after the first initial vision test is unsatisfactory.

1. >> PCAvect = [0 1.5 3 6 6 6 0];

BGvect = [0 0 0 0 1.5 3 0];

state = 3;

while (state > 1) and (state < 7)

wait 4 hr and check on the patient

if the patient is asleep (somnolent),

then minimum dose PCA

else if the patient rates his/her pain at least a 7 (NRS),

then maximum dose PCA

end if

set PCA = PCAvect [state]

set BG = BGvect [state]

end while

if state == 1

then hold PCA, call primary team

else

Patient is assigned to receive open label opioids or other analgesic agents

end