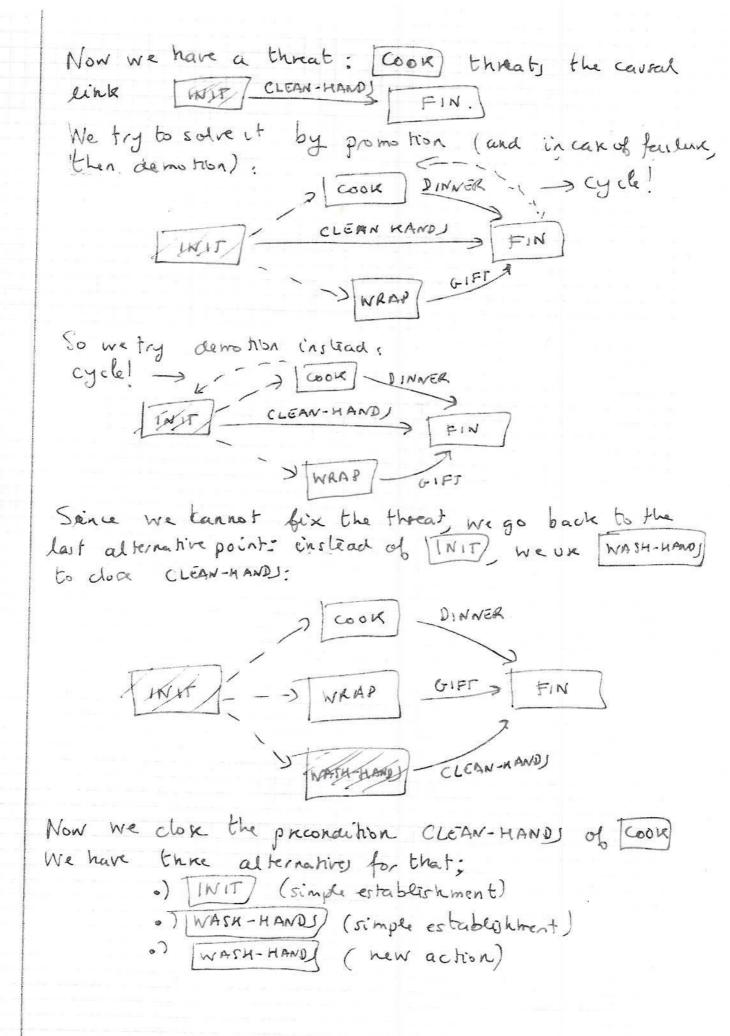
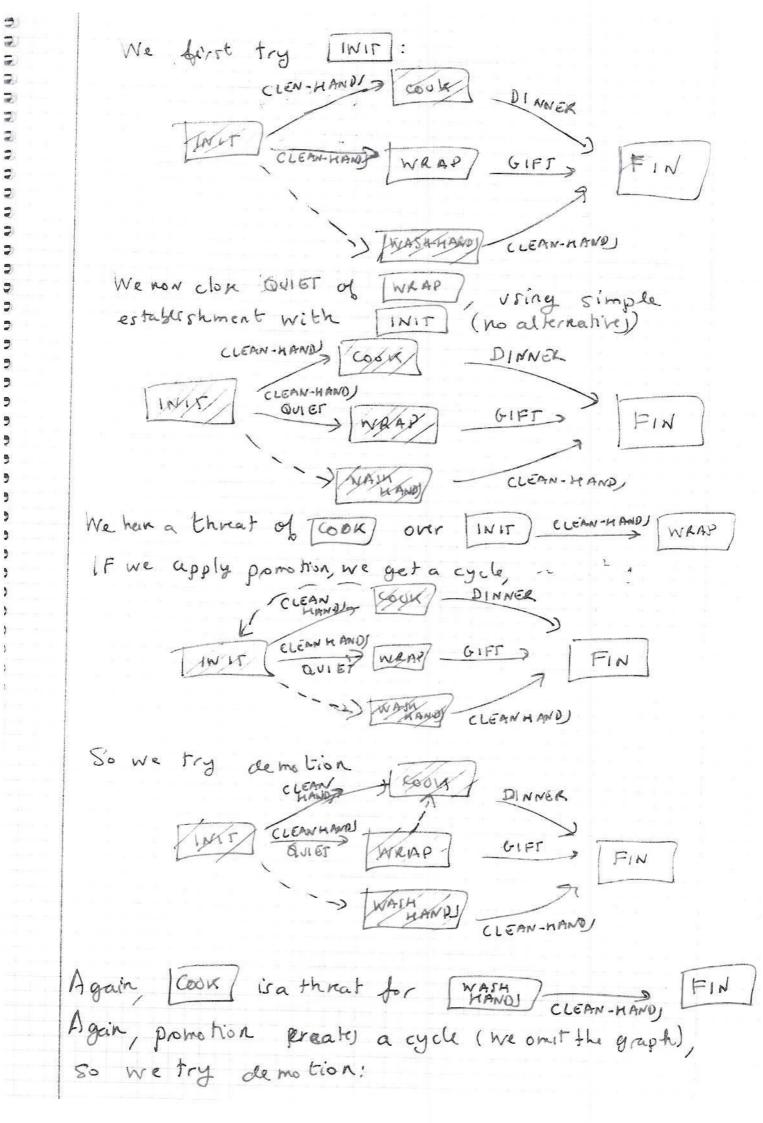
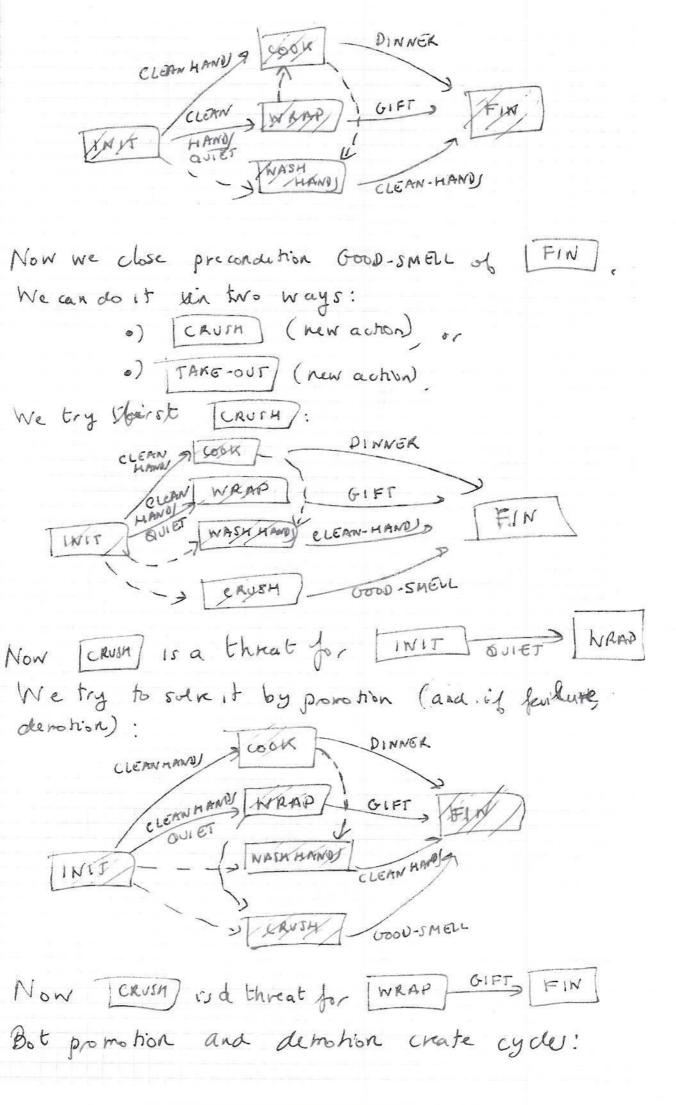
UNII 6	
Pres	open(x), robot-in (y), connect(x, y, z)  Trobot-in (y), robot-in (z)
CARR-THI Pre: [Effe:	open (p), connects (p, hl,h2), robot-in (hl) in (c,h)  Trobot-in (hl), Tin (c,hl), robot-in (h2), in (c,h
CLOSE (X Prec:)  Effe:	open(x), robot-in(h), connects(x, hl, h2)  Topen(x)
OPEN (x Prec:) Effe:	Topen (x) robot-in (hl), connects (x, hl, hz) open (x)
12)  (+) Actions Can Dar applicable but we obtain repeated states in branc	A 3P19 D  1P3y  1P2, P4y  1P3, P4y  1P4, P2, P4y
actions A, Cand D	7.92,93, 94 4 Final state.

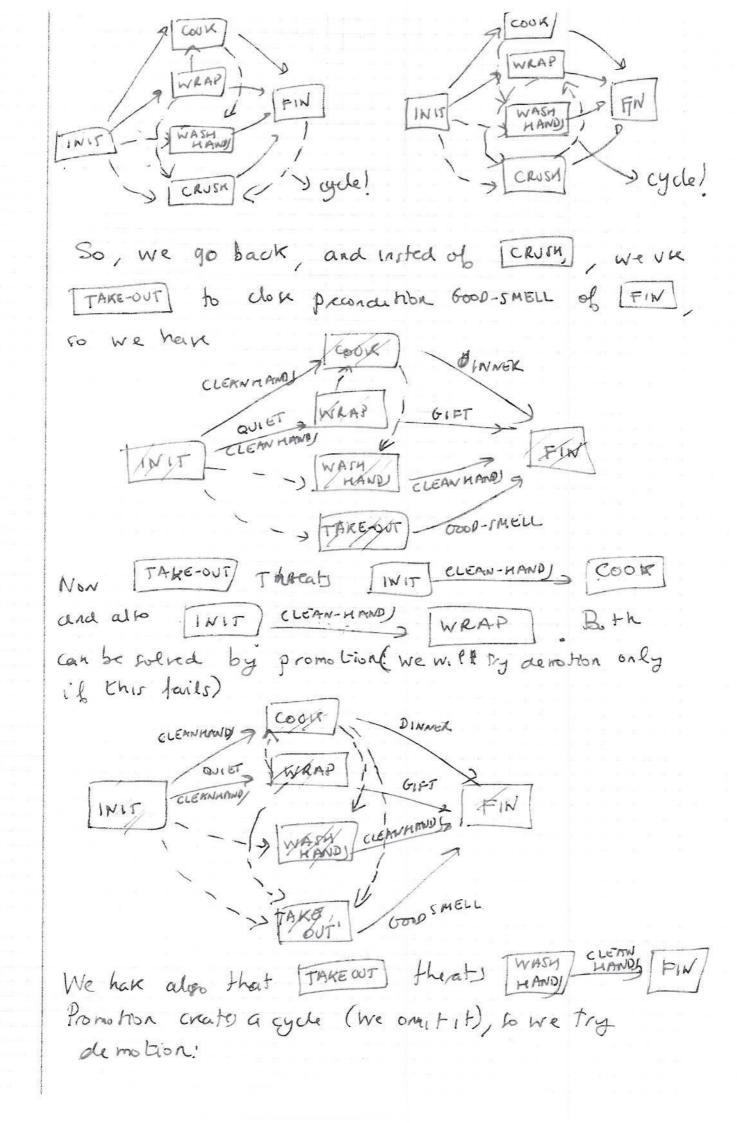
Solution: D, A, GB

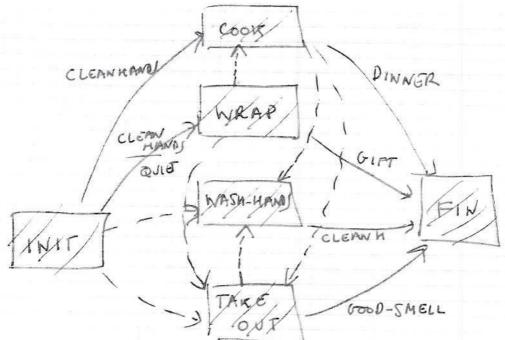
(19) Acrow: CRUJH() TAKEOUN Prec: 44 Prec: 14 Effe: 7 QUIET, 7 GIFT, GOOD SMELL Effe: 7 CLEAN-HAMPS, GOOD-SMELL COORC) WRAPC) Prec: CLEAN-HANDS Pres QUIET, CLEAN-HANDS Effe: TCLEAN-HANDS, DINNER Effe: GIFT WASH-HANDS Prec. () Effec: CLEAN-HANDS · Initial state: {QUIET, CLEW-4ANDS} · Goal: & DINNER, GIFT, CLERN-MONDS GOOD-SMELLS Let us apply the Por algorithm to solve this planning problem: TINIT | ---> | FIN | We close preconcutions DINNER and GIFT of [FIN] bying actions (Cook) and [WRAP], respectively (no alternative) The precondition CLEAN-HANDS can be closed by. actions: [INIT] (simple establishment) or [WAFH-HANDS (new action). We try first with INIT and go back to WASH-HANDS in can of failure: ANIT - CLEAN-HANDS GIFT 3 FIN





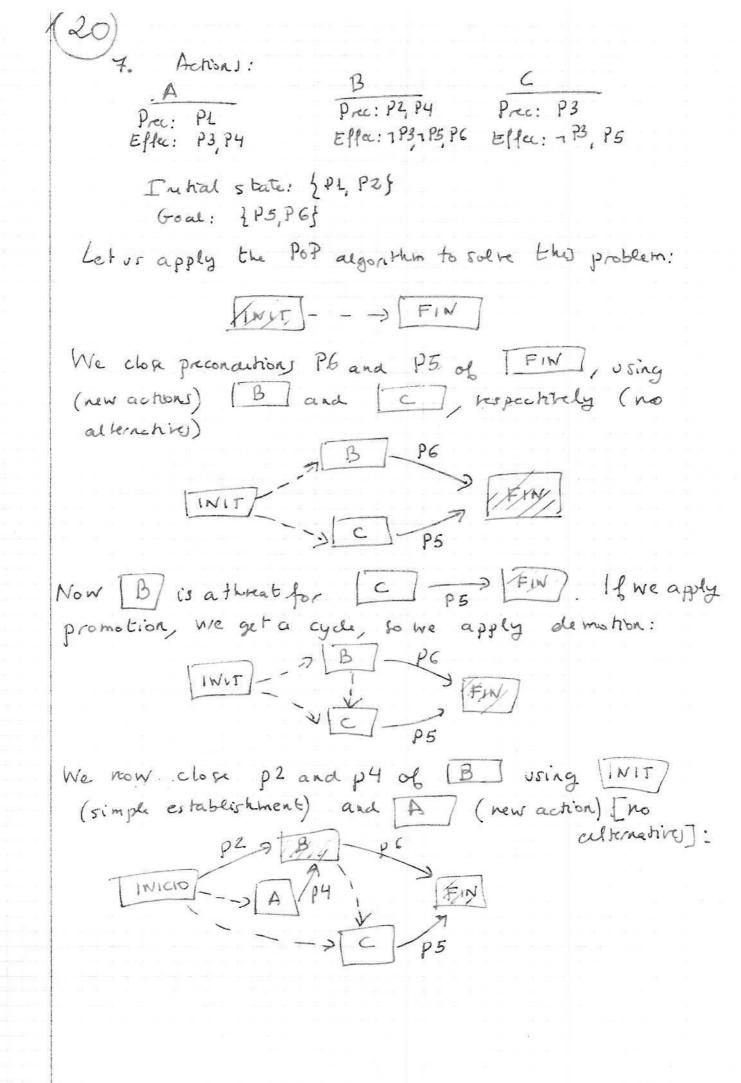


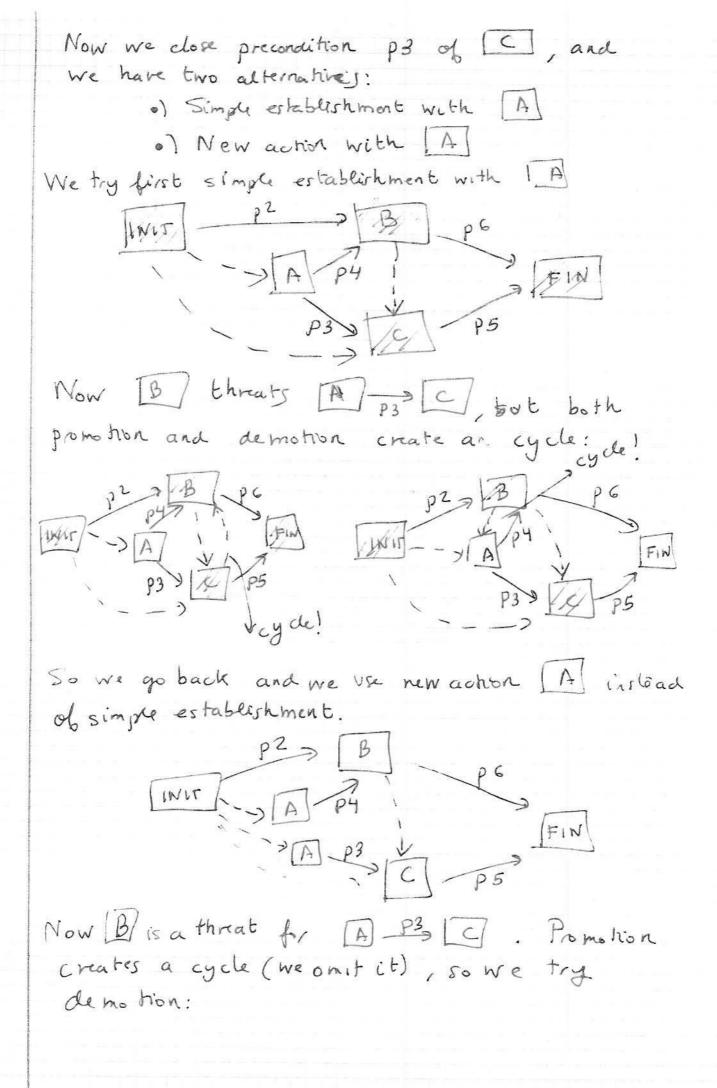


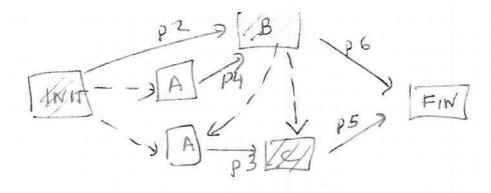


Nowwe have a partial plan with no threats, no cycles and no open precondutions. So we have a partial plan and we can extract from it a pollution to our planning problem, just linearizing the actions:

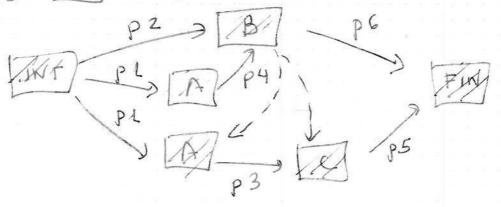




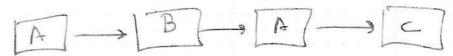




We finally slock preconditions pl of the two actions [A] in the plan. We clock both using [INIT] (simple establishment):



Now we have a final partial plan; and we obtain a solution linearizing it:



Let us check that indeed is a wendron.

1 p1, p2 } -> 1 p1, p2, p3, p4 } -> 1 p1, p2, p4, p6 } -> 1 p1, p2, p3, p4, p6 } -> 1 p1, p2, p4, p6 y

the goal 185, 864