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Eli Sobylak
1-dec-15
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Ch 6: 6.1, 6.2, 6.4, 6.5 6.6, 6.11, 6.14, 6.15, 6.16, *6.18

6.1:

Mutual exclusion: This applies to figure 6.1a with the cars because only one car can be using a given section of the road at a given time

Hold and wait: They are all waiting for each other to go first in this situation No preemption: Once a car starts moving, there's not much you can do to get it out of the way

Circular wait: If a car has already started moving into the turn lane, or if they all make a turn into their turns they will all be deadlocks.

6.2:

Two key factors of deadlock avoidance that could be applied to the scenario in figure 6.1 are not starting a process if its demands might lead to deadlock, and don't grant an incremental resource request to a process if this allocation might lead to deadlock. Obviously there are rules on the road so at a four way stop, this situation doesn't seem to happen, and when it does, someone has to make a decision to go first.

6.4:

Deadlock occurs inevitably in the fatal region. The existence of a fatal region depends on the logic of the two process. These two processes do not run into that problem.

6.15:

$$c = \{3,2,9,7\}$$
 $a = \{1,1,3,2\}$

 $n = \{2,1,6,5\}$

6.16:

a. 1.3

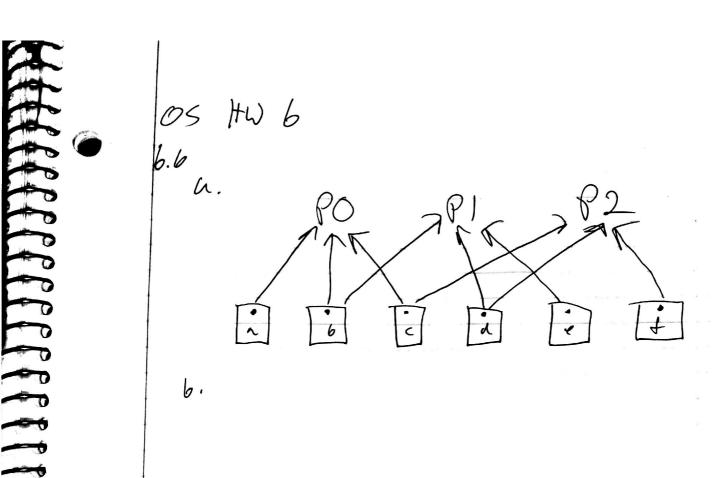
2.2

3.1

4.6

5.5

6.4



6.5 May Clam: Each Profess ever Clasm Weed Matrix = Map - Alloc AN ATT = 6. 3 total = alloc + Aunil - 411x D 5 5 3 -01 0 100 -02 75 4 4 4 ~-P3 3 2 O 0 1 3 3 43 - PY 52 O 4 - 85 0 4 Horry ABCD PI 82 788 11 56 84 15 10 156

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