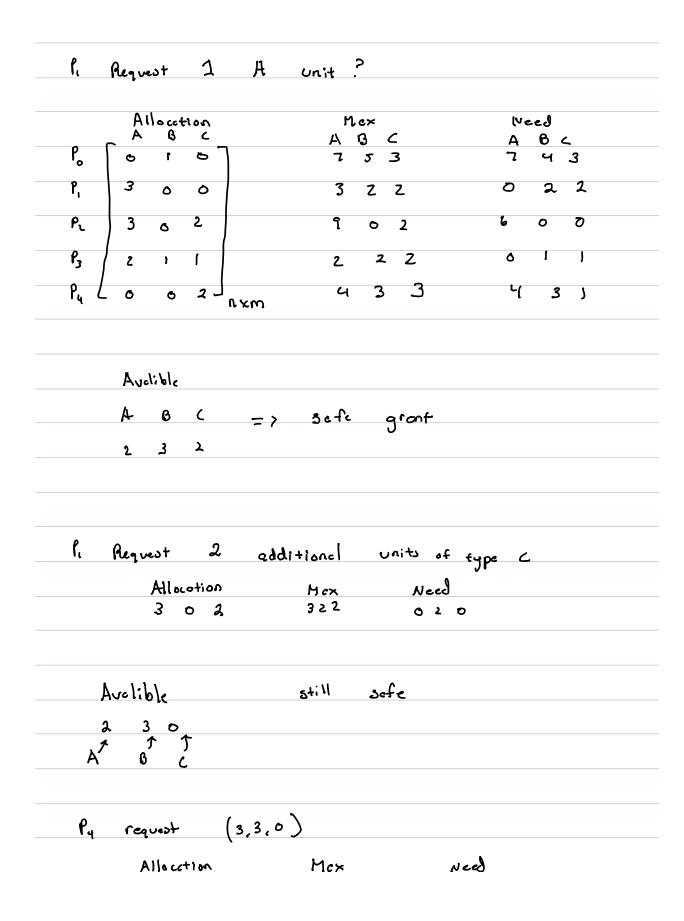
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3	3	2	
(10-7)	(5-2)	(7-5)	

Asome P, con finish



Py 3 3 2 4 33 101 Avolible 2 30 => Deny request 3 Detection and Recovery Single instant of resource · weit for graph If a cycle exists => System is decolocked (P, ) -> D Multiple instats [ Work = Avelible, Finish[i] = Folice Find process i s.t. finish[i] == Folse; request i & Work If no such i, go to (4) 3) Work = work + allocation: Finish[i] = True:

go to 2 If finish == folse for some (i) these are deadlocked Project 2 Gone 3 rounds P. Pz D Ρ, Round 1 Shoffle cords - Checking to see if highest cord is present function Decler () } pthreeds Deoler exit () each player

· Declers run first · Must lock & unlock -> woit for Pi resources.

pthread soin

exit()

-> weit for Pz - Requires Pthreed join Mutcx pthread\_mutex\_ + handler; pthread mutex : init(); handler. loch (); -> hardler, unlock(); Condition Vericbles pthread - condition-ty; pthread - condition - wait ( condition, mutex) pthread - condition - signal ( condition ); Lloch 1.6. pthreed mutex - loch ( x x); pthreed = cond\_weit (kg, kx) woit -> condition is but the signal locks pthread \_ mutck. unlock (&x) pthred\_mutex\_lach ( & X ) 2 leyers unlocking pthreed - cond - signal (dy) pthread\_mutex. unlock (&x) \*

Player fonction (Poss number of players)
and organish would tell you if it divished properly
7. J.
<u>16</u>
# 4