

Quiz 4

CMPS 405: Operating Systems

Name:

ID:

Imagine a system that has 2 resources of A, 4 of B, and 5 of C. Consider the following state of the system:

Max Demand			
	A	B	C
P0	1	1	2
P1	2	3	5
P2	2	0	3
P3	1	1	2
P4	1	4	1

Initial Allocation			
	A	B	C
P0	1	0	1
P1	0	2	1
P2	1	0	0
P3	0	1	1
P4	0	0	0

Part (a)

If P1 requests one instance of B, should it be granted? If so, give the escape sequence that verifies this is safe. If not, show why not.

Part (b)

Pretend part (a) never happened. If P3 requests one instance of C, should it be granted? If so, give the process escape sequence that verifies this is safe. If not, show why not.