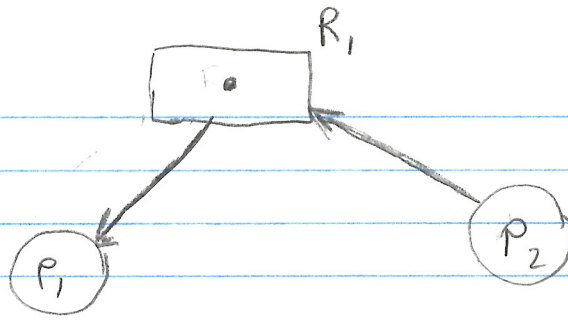CIS3110
Cameron Fisher

Q1

R_1

It is not possible to become deadlocked. This is because there is no mutual exclusion, hold and wait, circular wait, and no preemption.

Q2)

a)

	Need
P0	0000
P1	0750
P2	1002
P3	0020
P4	0642

b) The system is in a safe state since all the processes can get the resources they need. This can be shown in this safe sequence: P0, P2, P3, P4, P1, which shows the sequence of the processes that should be run in order for the system to achieve a safe runtime.