6.823 Computer Architecture DUE: 4/29/2002

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Problem Set 5 *Instructors: Krste Asanovic, Srinivas Devadas*

Problem 5

(a) Possible Results of execution (0,1), (1,1), (1,0), (1,2), (2,1), (0,2), (2,0), (2,2).
(b)

P1	P2
ADDI R1,R0,#1	ADDI R1,R0,#1
SW A(R0),R1	SW B(R0),R1
LW R2, B(R0)	LW R2, A(R0)
MEMBAR	MEMBAR
SW C(R0),R2	SW D(R0),R2