

(b) (9 points)

The ADDI instruction **does not** require any physical hardware changes to the single cycle datapath. Fill in the table below indicating the value of all existing control lines necessary to execute the ADDI instruction on the single cycle datapath. You **must use don't cares** where appropriate.

Type		ALU				Mem	Brch	ALU	
	Loc	Src	ToReg	Write	Read	Write		op1	op0
R-format	0	0	0	1	0	0	0	1	0
LDUR	X	1	1	1	1	0	0	0	0
STUR	1	1	X	0	0	1	0	0	0
CBZ	1	0	X	0	0	0	1	0	1
ADDI	0	1	0	1	1	0	0	()	0
X				0			1		