

Jesse Mayer

HW#6

Chapter 7

1.d.	LSRS	R1,R1,1	3.c.	LDR	R12,=32
	RRX	R0,R0		SUB	R12,R12,R1
	BX	LR		SUB	R3,R12,R2
3.b.	LDR	R12,=1		LSL	R0,R0,R3
	LSL	R3,R12,R3		ASR	R0,R0,R12
	SUB	R3,R3,1		BX	LR
	LSL	R3,R3,R2			
	BIC	R0,R0,R3			
	AND	R1,R1,R3			
	ORR	R0,R0,R1			
	BX	LR			

Chapter 8

1. $01011110_2 = (2^5 + 2^4 + 2^3 + 2^2 + 2^1) = 94_{10}$

	LDR	R1,R0,LSL6
	ADD	R1,R1,R0,LSL5
	SUB	R0,R1,R0,LSL1

3. $2^8 = 256 \Rightarrow 256/9 = 28.44 \Rightarrow 28$

7.

LSL	R2,R0,R1
MLS	R0,R2,R1,R0