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Lab 8 – LC-3 Instruction Set Architecture

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Addr	Assembler	Action/Comment
x7FFF	LD R0,9	R0 ← M[x8009] = 12
x8000	LD R1,9	$RI \leftarrow M[x800A] = x800D$
x8001	LDR R2,R1,0	$R2 \leftarrow 1/(8000) + 00 = 18$
x8002	LEA R4,8	R44 x8003+8= x800B
x8003	STR R2,R4,0	M[x800B] - R2= 18
x8004	AND R3,R3,O	R3 ← 0
x8005	STR R3,R4,1	M[x8006+]= M[x800c] - R3 = 0
x8006	ADD R5,R0,R0	R5-R0+R0=12+12=24
x 8007	STI R5,2	N[N[x(008+2]]= N[x800D] <- R5= 2
x8008	TRAP x25	HALT
x8009	.FILL 12	
x800A	.FILL x800D	
x800B	.FILL 0	value changes to 18
x800C	.FILL -1	value changes to 18 value changes to 0 value changes to 24
x800D	.FILL 18	value changes to 24
x800E	.FILL 0	