Problem Set 4

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MIPS Assembly Workshop)

LC		ADDI	$v0	$zero	0	# Initialize Counter	PC
		8	2	0	0		
0	2002 0000						4
	Loop:	LW	$v1	0	$a0	# Read the next word	
		35	3	0	4		
4	2083 0000						8
		SW	$v1	0	$a1	# Copy to the destination	
		43	3	0	5		
8	ACA3 0000						12
		ADDI	$v0	$v0	1	# Count the copied word	
		8	2	2	1		
12	2022 0002						16
		ADDI	$a0	$a0	4	# The next source word	
		8	4	4	4		
16	2084 0004						20
		ADDI	$a1	$a1	4	# Move destination pointer	
		8	5	5	4		
20	2085 0005						24
		BNE	$v1	$zero	loop	# Next, if not zero value	
		5	3	0	4		
24	1483 0000						4
		JR	$ra			# Return to caller	
		8	31				
28	2000 001F						