Dr. Bassem Al-Halabi, S&E362 February 3, 2000

Name: Grade: /50

1) For each of the following *program segments*, execute the program one instruction at a time. At the end of each instruction execution, indicate any changes in registers, condition flags, and/or memory locations. Note that the result of any instruction may be an operand for succeeding instructions.

	N	Z	V	C	D1	A1
	0	0	1	0	AAAA 0000	8888 8888
MOVE.W #$8877, D1						
MOVEA.L #$0A000, A1						
MOVE.L D1, (A1)						

00A000	55	
00A001	55	
00A002	55	
00A003	55	
FFA000	55	
FFA001	55	
FFA002	55	
FFA003	55	

	N	Z	V	C	D2	A2
	0	0	1	1	1111 1100	0000 1104
MOVE.L (A2)+, -2(A2)						
MOVE.W -(A2), D2						

001100	81	
001101	82	
001102	83	
001103	84	
001104	91	
001105	92	
001106	93	
001107	94	

	N	Z	V	C	D3	A3
	0	0	1	0	1111 0000	0000 0102
MOVE.W (A3), 2(A3,D3.B)						
ADDI.W #$204, D3						
MOVE.W (A3,D3.B), -2(A3)						

000100	A1	
000101	A2	
000102	A3	
000103	A4	
000104	B1	
000105	B2	
000106	B3	
000107	B4	

	N	Z	V	C	D4	PC
	1	1	0	1	1111 1111	0000 00F6
MOVE.W $10(PC), D4						

	N	Z	V	C	D5	PC
	1	0	0	1	1111 0100	0000 0004
MOVE.W $02(PC,D5.W), $0104						

000100	78	
000101	77	
000102	76	
000103	75	
000104	74	
000105	73	
000106	72	
000107	71	