Level 1 Instruction Set				
Step	Instruction	Instruction		
0	set	Write 0 in cell a		
1	set	Write 1 in cell b		
2	set	Write 7 in cell c		
3	set	Write 5 in cell d		
4	plot	Draw pixel at column (cell a), row (cell a)		
5	+	Add (cell a) and (cell b). Write result in cell a.		
6	plot	Draw pixel at column (cell a), row (cell a)		

7	<	Compare cell a and cell c.
		If (cell a) is less than (cell c)
		    write 1 in cell e
		Otherwise
		    write 0 in cell e		

8	jump	Compare cell e
		If (cell e) is 1
		    go to step (cell d) and continue
		Otherwise
		    ignore this step and continue		

		If you get here, no more steps, then you are done! Check your answer!		

Memory Registers															
a	b	c	d	e	f	g	h	i	j	k	l	m	n	p	
1	1	7	5	1											
1	1	7	5												

Monitor									
x									
	x								

Level 2 Instruction Set

Step	Instruction	Instruction						
0	set	Write 0 in cell a						
1	set	Write 0 in cell b						
2	set	Write 9 in cell c						
3	set	Write 1 in cell d						
4	set	Write 1 in cell e						
5	set	Write 7 in cell f						
6	set	Write 17 in cell g						
7	plot	Draw pixel at column (cell a), row (cell b)	col 0 row 0	c1 r1	c3 r3	c4 r4	c5 r5	c6 r6
8	+	Add (cell a) and (cell d). Write result in cell a.						
9	+	Add (cell b) and (cell e). Write result in cell b.						

10	<	Compare cell b and cell c
		If (cell b) is less than (cell c)
		    write 1 in cell h
		Otherwise
		    write 0 in cell h
				false when b is 9				

11	jump	Compare cell h
		If (cell h) is 1
		    go to step (cell f) and continue
		Otherwise
		    ignore this step and continue
			go to step 7					

12	jump	Compare cell i
		If cell i is 1
		    go to step cell g and continue
		Otherwise
		    ignore this step and continue
			go to step 17					

13	set	Write 1 in cell i						
14	set	Write -1 in cell b						
15	set	Write -1 in cell d						

16	jump	Compare cell i
		If (cell i) is 1
		    go to step cell f and continue
		Otherwise
		    ignore this step and continue
			go to step 7					

		If you get here, no more steps, then you are	Done!					

Memory Registers

a	b	c	d	e	f	g	h	i	j	k	l	m	n	p
-1	9	9	-1	1	7	17	0	1						

Monitor

	0	1	2	3	4	5	6	7	8	9
0	x							x		
1		x					x			
2			x			x				
3				x	x					
4					x					
5				x	x					
6		x				x				
7		x						x		
8	x							x		
9									x	

Monitor

Memory Registers

a	b	c	d	e	f	g	h	i	j	k	l	m	n	p

Level 3 Instruction Set		
Step	Instruction	Instruction
0	set	Write 2 in cell a
1	set	Write 7 in cell b
2	set	Write 1 in cell c
3	set	Write 6 in cell e
4	set	Write 7 in cell f
5	plot	Draw pixel at column (cell a), row (cell b)
6	+	Add (cell a) and (cell c). Write result in cell a.
7	plot	Draw pixel at column (cell a), row (cell b)
8	<	Compare cell a and cell f
9	jump	Compare cell d
10	set	Write 2 in cell a
11	set	Write 2 in cell b
12	set	Write 7 in cell f
13	set	Write 15 in cell e
14	plot	Draw pixel at column (cell a), row (cell b)
15	+	Add (cell a) and (cell c). Write result in cell a.
16	<	Compare cell a and cell f
17	jump	Compare cell d
18	plot	Draw pixel at column (cell a), row (cell b)
19	set	Write 1 in cell a
20	set	Write 6 in cell b
21	set	Write 8 in cell f
22	set	Write 24 in cell e
23	plot	Draw pixel at column (cell a), row (cell b)
24	+	Add (cell a) and (cell c). Write result in cell a.
25	<	Compare cell a and cell f
26	jump	Compare cell d
27	plot	Draw pixel at column (cell a), row (cell b)

Monitor

Memory Registers														
a	b	c	d	e	f	g	h	i	j	k	l	m	n	p

Level 4 Instruction Set		
Step	Instruction	Instruction
0	set	Write 9 in cell a
1	set	Write 0 in cell b
2	set	Write 9 in cell c
3	set	Write 8 in cell d
4	set	Write 13 in cell e
5	set	Write 1 in cell f
6	plot	Draw pixel at column (cell b), row (cell a)
7	plot	Draw pixel at column (cell c), row (cell a)
8	-	Subtract (cell f) from (cell a). Write result in cell a.
9	plot	Draw pixel at column (cell b), row (cell a)
10	plot	Draw pixel at column (cell c), row (cell a)
11	jump	Compare cell a
12	jump	Compare cell f
13	set	Write 17 in cell d
14	set	Write 21 in cell e
15	set	Write 9 in cell a
16	plot	Draw pixel at column (cell a), row (cell b)
17	-	Subtract (cell f) from (cell a). Write result in cell a.
18	plot	Draw pixel at column (cell a), row (cell b)
19	jump	Compare cell a
20	jump	Compare cell f
21	plot	Draw pixel at column (cell b), row (cell b)
22	set	Write 2 in cell a
23	set	Write 2 in cell b
24	set	Write 33 in cell g
25	plot	Draw pixel at column (cell b), row (cell a)
26	+	Add (cell b) and (cell f). Write result in cell b.
27	plot	Draw pixel at column (cell b), row (cell a)

28	+	Add (cell a) and (cell f). Write result in cell a.
29	plot	Draw pixel at column (cell b), row (cell a)
30	-	Subtract (cell f) from (cell b). Write result in cell b.
31	plot	Draw pixel at column (cell b), row (cell a)
32	jump	Compare cell f
33	set	Write 25 in cell h
34	set	Write 2 in cell a
35	set	Write 6 in cell b
36	set	Write 38 in cell g
37	jump	Compare cell f
38	set	Write 4 in cell a
39	set	Write 4 in cell b
40	set	Write 42 in cell g
41	jump	Compare cell f
42	set	Write 3 in cell a
43	set	Write 6 in cell b
44	set	Write 5 in cell c
45	set	Write 7 in cell e
46	set	Write 54 in cell i
47	set	Write 48 in cell g
48	plot	Draw pixel at column (cell a), row (cell c)
49	plot	Draw pixel at column (cell b), row (cell c)
50	+	Add (cell c) and (cell f). Write result in cell c.
51	>	Compare (cell c) and (cell e).
52	jump	Compare cell d
53	jump	Compare cell f