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
0	1	7	5	1										
1				1										
2				1										
3				1										
4				1										
5				1										
6				0										
7														

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

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
0	0	9	1	1	7	17	1	1						
1	1		-1				1							
2	2						1							
3	3						1							
4	4						1							
5	5						1							
6	6						1							
7	7						1							
8	8						0							
9	9						1							
8	-1						1							
7	0						1							
6	1						1							
5	2						1							
4	3						1							
3	4						1							
2	5						1							
1	6						1							
0	7						0							
-1	8													
	9													

Monitor

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