PC	Assembly Code	Description	Machine Code	Display
0	load $r1, 0($r0)	r1 = M[0]	01 00 01 00	00
1	load $r2, 1($r0)	r2 = M[1]	01 00 10 01	01
2	add $r1, $r1, $r2	r1 = r1 + r2	00 01 10 01	01
3	store $r1, 0($r0)	M[0] = r1	10 00 01 00	XX
4	load $r1, 0($r0)	r1 = M[0]	01 00 01 00	01
5	load $r2, 1($r0)	r2 = M[1]	01 00 10 01	01
6	add $r1, $r1, $r2	r1 = r1 + r2	00 01 10 01	02
7	store $r1, 0($r0)	M[0] = r1	10 00 01 00	XX
8	load $r1, 0($r0)	r1 = M[0]	01 00 01 00	02
9	load $r2, 1($r0)	r2 = M[1]	01 00 10 01	01
10	add $r1, $r1, $r2	r1 = r1 + r2	00 01 10 01	03
11	store $r1, 0($r0)	M[0] = r1	10 00 01 00	XX
12	load $r1, 0($r0)	r1 = M[0]	01 00 01 00	03
13	load $r2, 1($r0)	r2 = M[1]	01 00 10 01	01
14	add $r1, $r1, $r2	r1 = r1 + r2	00 01 10 01	04
15	store $r1, 0($r0)	M[0] = r1	10 00 01 00	XX
16	load $r1, 0($r0)	r1 = M[0]	01 00 01 00	04
17	load $r2, 1($r0)	r2 = M[1]	01 00 10 01	01
18	add $r1, $r1, $r2	r1 = r1 + r2	00 01 10 01	05
19	store $r1, 0($r0)	M[0] = r1	10 00 01 00	XX
20	jump -1	PC = (PC+1) - 1	11 00 00 11	XX