

Instruction number	Instruction	Hex
000001	set r1, 0x55	0Xe155
000002	sset r1, 0x12	0Xe912
000003	sset r1, 0x10	0Xe910
000004	sset r1, 0x20	0Xe920
000005	sset r1, 0x00	0Xe900
000006	set r6, 0x22	0Xe622
000007	sset r6, 0x06	0Xee06
000008	sset r6, 0x02	0Xee02
000009	sset r6, 0x11	0Xee11
00000a	eqv r3, r6, r1	0X03c7
00000b	sub r0,r0,r0	0X0801
00000c	lw r1, 0(r0)	0X8100
00000d	lw r2, 1(r0)	0X8201
00000e	lw r3, 2(r0)	0X8302
00000f	addi r4, r4, 10	0X448a
000010	sub r4,r4,r4	0X0c91
000011	add r4,r2,r4	0X0c50
000012	slt r5,r2,r3	0X0d4e
000013	beq r5,r0,2	0X7502
000014	add r2,r1,r2	0X0a28
000015	beq r0,r0,-5	0X701b
000016	sw r4, 0(r0)	0X8c00
000017	jal func	0Xf806
000018	ror r6, r6, 8	0X6ec8
000019	lw r4, 1(r0)	0X8401
00001a	lw r5, 2(r0)	0X8502
00001b	add r6, r6, r5	0X0ed4
00001c	beq r0,r0,-1	0X701f
00001d	func: sub r0,r0,r0	0X0801
00001e	lw r1, 0(r0)	0X8100
00001f	lw r2, 0(r1)	0X8220
000020	lw r3, 1(r1)	0X8321
000021	and r4,r2,r3	0X044c
000022	or r5, r2, r3	0X054d
000023	sw r4, 1(r0)	0X8c01
000024	sw r5, 2(r0)	0X8d02
000025	jr r7	0Xd701

Output

R0= 0x00000000

R1= 0x00000001

R2= 0x0000000a

R3= 0x0000000a

R4= 0x00000037

R5= 0x00000000

R6= 0x22060211

R7= 0x00000017

Memory address	Value
0x00000000	0x00000037
0x00000001	0x00000037
0x00000055	0x430a1f9b
0x00000056	0x728cd2e3