Assembly Code	Machine Code
add s2, s3, s4	0x01498933
sub t0, t1, t2	0x407302B3
addi s2, t1, -14	0xFF230913
lw t2, -6(s3)	0xFFA9A383

Address	Instructions
⋮	⋮
0000083C	F F A 9 A 3 8 3
00000838	F F 2 3 0 9 1 3
00000834	4 0 7 3 0 2 B 3
00000830	0 1 4 9 8 9 3 3	← PC
⋮	⋮

Main Memory