Problem 6.1:

1. 1 10001100000000010001000000000000 # lw r1, 0x1000 (r0)
   2 00000000001000000001000000100000 # add r2, r0, r1
   3 loop: 00100000000000110000000000000001 # addi r3, r3, 1
   4 00010000010000000000000000001100 # beqz r2, end
   5 00000000010001100011000000011001 # multu r2, r1, r3
   6 00101000010000100000000000000001 # subi r2, r2, 1
   7 00001011111111111111111111110000 # j loop
   8 end: 10101100000000110001000000000100 # sw r3, 0x1004 (r0)

Problem 6.2:

1. 1 lw r1 , 0 x1000 (r0) # 10001100000000010001000000000000 ; 0x8c011000
   2 lw r2 , 0 x1004 (r0) # 10001100000000100001000000000100 ; 0x8c021004
   3 loop : beqz r1 , end # 00010000001000000000000000010010 ; 0x10200012
   4 slt r3, r1, r2 # 00000000001000100001100000101010 ; 0x0022182a
   5 bnez r3 , branch # 00010000011000000000000000001110 ; 0x1060000d
   6 sub r3 , r1 , r2 # 00000000001000100001100000100010 ; 0x00221822
   7 add r1 , r2 , r0 # 00000000010000000000100000100000 ; 0x00400820
   8 add r2 , r3 , r0 # 00000000011000000001000000100000 ; 0x00601020
   9 j loop # 00001011111111111111111111110000 ; 0x0bfffff0
   10 branch: sub r3, r2, r1 # 00000000010000010001100000100010 ; 0x00411802
   11 add r2, r1, r0 # 00000000001000000001000000100000 ; 0x00201020
   12 add r1, r3, r0 # 00000000011000000000100000100000 ; 0x00600820
   13 j loop # 00001011111111111111111111110000 ; 0x0bfffff0
   14 end: sw 0x1008 (r0), r2# 10101100000000100001000000001000 ; 0xac021008