

Aidan Lopez

862162380

## HW1\_ISA1

Q1. 2 reads AND 1 write

Q2. (R6 = 512, X = 0, R5 = 24), (R6 = 512, X = 24, R5 = 0)

Q3. (bne and j)

start

subi R3, R5, 0x07

bne R4, R3, skip

add R4, R5, R0

j skip2

skip

addi R4, R4, 0x02

skip2

end

(beq and j)

start

subi R3, R5, 0x07

beq R4, R3, skip

addi R4, R4, 0x02

j skip2

skip

add R4, R5, R0

skip2

end

Q4.  $R1 = 4$

Q5.  $R1 = 5, R2 = 5, R3 = 0$

Q6.  $24 = 3(\text{variable A}), R6 = 3(\text{variable A})$