

1.)

Big Endian – MSB in lowest address

```

lbu $t0, 0($t1)    $t0 = 0x0000 0011
sw $t0, 0($t2)     $0x1000 0010 is 0x0000 0011

```

0x1000 0000 is: 0x11223344

So 0x11 is stored in 0x1000 0000

0x1000 0010 is: 0x0000 0011

2.)

1,500,000 Instructions

2 Cycles per instructions

2 GHz Clock rate == 2,000,000,000 Hz

Avg # of cycles = 1,500,000 inst * 2 cycles per inst = 3,000,000 cycles

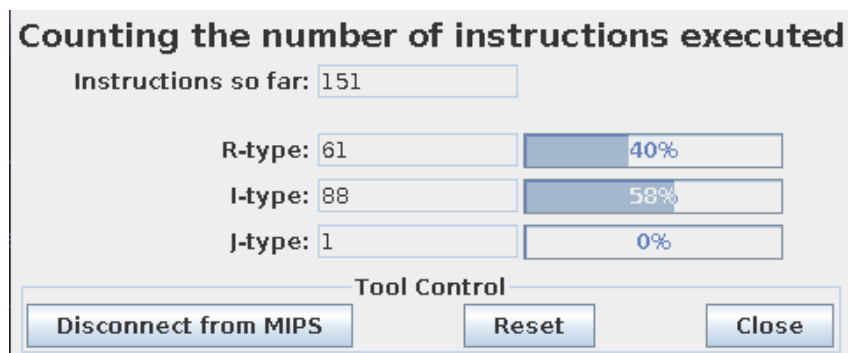
Exe time = # of cycles / clock rate

= 3,000,000 / 2,000,000,000

= .0015 seconds

3.)

Question 2 verify

# of instructions for my code should be $6 + (4 + a \cdot (7 + 7b))$ (6 for initialization)

$$6 + 4 + 10(7+7) = 10 + 140 = 150$$

I think the +1 is for creating the array, but I'm not actually sure.