HW1 Keys

You need to show how you find out the answers in your submission.

Always write brief comments in your code.

Q1

Work on hex digits or bits. For example, addition is done on hex digits.

ADD: B9AB2802

AND: 00AB4808

OR: B8FFDFFA

XOR: B85497F2

ADDI: 98ABD064

ANDI: 98ABCD60

SLLI: BCD6A000

SRAI: FF98ABCD

Q2

The solutions have 5 instructions, two of which are branches.

Test your code in RARS.

Q3

a. The total number of executed instructions is 146.

b. Your code may have a different number. Here are the numbers from the code in solutions. If s0 = 0, the number of executed instructions is 5. If s0 = 0xFF00FF00, the total number of executed instructions is 90.

Q4

There are 11 instructions in the solutions, 4 of which are branches.