## CIS 351 Sample AL5 Problem Solutions

Fri 31st Oct, 2025

## AL5: Read Assembly

Describe in common English what the following functions do.

```
(a) mysteryFunction1:
slt $t0, $a0, $a1
slt $t1, $a1, $a2
and $v0, $t0, $t1
jr $ra
```

## It returns whether the parameters are in strictly increasing order.

(b) Describe in common English what the following function does. Hint: It takes two integer parameters. sra stands for "shift right arithmetic". It moves all the bits in the register to the right the specified amount.

```
mysteryFunction2:
add $v0, $a0, $a1
sra $v0, $v0, 1
jr $ra
```

It returns the average of the two numbers.