CIS 351 Sample AL5 Problem Solutions

Mon 21st Mar, 2022

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.