CIS 351 Sample AL5 Problem Solutions

Sun 19th 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.

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

It returns the average of the two numbers.