

CISS240: Introduction to Programming
Quiz q1901

Name: _____

Score:

This is a closed-book, no C++ compiler, 6-minute quiz.

Q1. Complete the following function to check if an integer is prime. For instance `isprime(2)` returns true, `isprime(-3)` returns false, `isprime(1)` returns false, and `isprime(10)` return false,

ANSWER:

```
// isprime(n) return true exactly when n is a prime.
bool isprime(int n)
{
    // TODO
}
```

Q2. Complete the following function to compute powers. For instance `mypow(2, 0)` returns 1 and `mypow(2, 4)` returns 16.

ANSWER:

```
// mypow(x, y) return x to the power of y. Both x and y are integers.
// Assume y >= 0. Obviously you are not allowed to use the pow function.
// HINT: You need a loop.
int mypow(int x, int y)
{
    // TODO
}
```

Q3. Complete the following function that returns the number of digits in an integer. For instance `numdigits(0)` is 1, `numdigits(4030201)` is 7, `numdigits(-4030201)` is 7.

ANSWER:

```
int numdigits(int n)
{
    // TODO
}
```