CISS240: Introduction to Programming
Quiz q0701

Name: _____   Score: _____

This is a closed-book, no C++ compiler, 4-minute quiz.

Q1. Complete the following code fragment that tells you an input is even.

```
int n;
std::cin >> n;
bool n_is_even = _____;

if (n_is_even)
    std::cout << n << " is even\n";
```

The following are some executions of the program:
TEST 1
```
6
6 is even
```
TEST 2
```
5
```
(There is no output.)
ANSWER:

Q2. What is the output of the following code fragment?

```
int n = 7;
int d = 1;
bool b = true;

if (n % d == 0)
{
    b = !b;
}
d = d + 1;

if (n % d == 0)
{
```

```
    b = !b;
}
d = d + 1;

if (n % d == 0)
{
    b = !b;
}
d = d + 1;

if (n % d == 0)
{
    b = !b;
}
d = d + 1;

if (n % d == 0)
{
    b = !b;
}
d = d + 1;

std::cout << b << '\n';
```

ANSWER:

Q3. What is the output of the following code fragment? The repeating chunk of code appears 5 times; only 3 are shown below.

```
int n = 7;
int d = 2;
bool b = true;

b = b && (n % d != 0);
d = d + 1;

b = b && (n % d != 0);
d = d + 1;

b = b && (n % d != 0);
d = d + 1;

... etc ...

std::cout << b << '\n';
```

Answer:

Q4. Complete the following code fragment so that if the user enters an integer value that is at least 5, the program prints a message.

```
int hours;
std::cout << "how many hrs do you spend in front of the tv each day?";
std::cin >> hours;

bool too_much_telly = _____;

if (too_much_telly)
    std::cout << "don't have a life, do u?" << std::endl;
```

The following are some executions of the program:

Test 1

```
5
don't have a life, do u?
```

Test 2

```
1
```

(There is no output.)

Answer: