CISS240: Introduction to Programming
Quiz q0803

Name: _____   Score: _____

This is a closed-book, no C++ compiler, 2-minute quiz.

Q1. What is the value of x if i is 2 and j is 3:

```
int x = (1 < i && j > 3 ? i + 1 : j + 1);
```

ANSWER:

Q2. Rewrite the following without if-else. (Use ternary operator.)

```
if (a < b + c)
{
    x = i + j;
}
else
{
    x = i - j;
}
```

ANSWER:

Q3. Rewrite the following code fragment without if-else. (Use ternary operators.)
ANSWER:

```
int die0 = rand() % 6 + 1;
int die1 = rand() % 6 + 1;
int gain = 0;
if (die0 > 2)
{
    gain = gain + 1;
}
else
{
    gain = gain - 1;
}
if (die0 == die1)
{
    gain = gain + 1;
```

```
}
else
{
    gain = gain - 1;
}
if (die0 == 6 && die1 == 6)
{
    gain = gain + 2;
}
```

Q4. The following code fragment is wrong. Fix it!
ANSWER:

```
int die0 = rand() % 6 + 1;
int die1 = rand() % 6 + 1;
if (die0 == die1 == 6)
{
    std::cout << "double 6!!!\n";
}
```

(Why is it wrong? Initialize both variables to 6 and see what happens. Why? Restudy boolean notes if you don't see the error immediately!)