

**CISS240: Introduction to Programming**  
**Quiz q0302**

Name: \_\_\_\_\_

Score: 

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

Q1. Here's a code fragment. Notice that there's a repeating chunk of code. (The repeating chunk of code appears 8 times.)

```
int i = 0;

std::cout << i << '\n';
i = i + 1;

std::cout << i << '\n';
i = i + 1;

std::cout << i << '\n';
i = i + 1;

std::cout << i << '\n';
i = i + 1;

std::cout << i << '\n';
i = i + 1;

std::cout << i << '\n';
i = i + 1;

std::cout << i << '\n';
i = i + 1;

std::cout << i << '\n';
i = i + 1;
```

(a) What is the last line of output?

ANSWER:

(b) What is the final value of i?

ANSWER:

Q2. Here's another code fragment:

```
int i = 42;

i = i + 1;
std::cout << i << '\n';

i = i + 1;
std::cout << i << '\n';

i = i + 1;
std::cout << i << '\n';

i = i + 1;
std::cout << i << '\n';

i = i + 1;
std::cout << i << '\n';

i = i + 1;
std::cout << i << '\n';

i = i + 1;
std::cout << i << '\n';

i = i + 1;
std::cout << i << '\n';

i = i + 1;
std::cout << i << '\n';

i = i + 1;
std::cout << i << '\n';

i = i + 1;
std::cout << i << '\n';
```

(a) What is the last line of output?

ANSWER:

(b) What is the final value of i?

ANSWER:

Q3. Here's a code fragment:

```
int i = 10;

i = i - 1;
std::cout << i << '\n';

i = i - 1;
std::cout << i << '\n';

i = i - 1;
std::cout << i << '\n';
```

Note that there is a repeating chunk of code. This chunk of code appears 3 times. How many times must this repeating chunk of code appear if you want the last line of output to be -1?

ANSWER:

Q4. Here's a code fragment:

```
int i = 42;

std::cout << i << '\n';
i = i * (-1);

std::cout << i << '\n';
i = i * (-1);

std::cout << i << '\n';
i = i * (-1);
```

Note that there is a repeating chunk of code. This chunk of code appears 3 times. What is the last output if this chunk of code appears 100 times?

ANSWER: