CISS240: Introduction to Programming
Quiz q0303

Name: _____   Score: [   ]

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

Q1. Here's a code fragment. The repeating chunk of code appears 5 times.

```
int i = 0, s = 0;

s = s + i;
i = i + 2;

s = s + i;
i = i + 2;

s = s + i;
i = i + 2;

s = s + i;
i = i + 2;

s = s + i;
i = i + 2;
```

(a) What is the final value of `s`?
ANSWER:

[   ]

(b) What is the final value of `i`:
ANSWER:

[   ]

Q2. Here's a code fragment. The repeating chunk of code appears 8 times, but I'm only showing 3 of them:

```
int i = 0, s = 0;

s = s + i;
i = i + 2;

s = s + i;
i = i + 2;

s = s + i;
i = i + 2;

// ... some code not shown ...
```

(a) What is the final value of `s`?

Answer:

(b) What is the final value of `i`:

Answer:

Q3. Here's a code fragment. The repeating chunk of code appears 7 times (only 3 are shown).

```
int i = 1, s = 2;

s = s + i;
std::cout << s << '\n';
i = i + 2;

s = s + i;
std::cout << s << '\n';
i = i + 2;

s = s + i;
std::cout << s << '\n';
i = i + 2;
```

(a) What is the output of last line?

Answer:

(b) What is the final value of `i`:

Answer:

Q4. The following code fragment has a chunk of repeating code which appears 3 times.

```
int i = 0, j;

j = i * i;
i = i + 1

j = i * i;
i = i + 1

j = i * i;
i = i + 1
```

What is the least number times the repeating chunk of code must appear if the final value of j is greater than 42?
ANSWER:

Q5. Two integer variables i and j are already declared. Write down 3 C++ statements to swap the values of i and j. You can create exactly *one* variable in the code.
ANSWER: