

Worksheet #9

CS 1405

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Name: _____

Score: _____

1. The `switch` statement and `if` statement are examples of _____ statements.
2. The `switch` statement uses the value of a(n) _____ expression to determine which group of statements to branch through.
3. In a `switch` statement the _____ branch is followed if none of the `case` expressions match the given `switch` expression.
4. C++ _____ (does/does not) allow c-strings to be compared with relational operators.
5. Explain why you cannot convert the following `if/else if` statement into a `switch` statement.

```
if (temp == 100)
    x = 0;
else if (population > 1000)
    x = 1;
else if (rate < 0.1)
    x = -1;
```

6. Rewrite the following `if/else` statement as a conditional expressions.

```
if (temp > 45)
    population = base * 10;
else
    population = base * 2;
```

7. Rewrite the following conditional expression as an `if/else` statement.

```
total += count == 1 ? sales : count * sales;
```