

Question(s) for rec03 - Classes, encapsulation, data hiding, output operator and nesting.

3. Consider the following code. What would be the result when attempting to build-and-run the program? Completely fill the circle next to your choice.

```
class Thing {
    friend ostream& operator<<(ostream& os, const Thing& rhs) {
        os << "I am a Thing and " << rhs.nest;          // Line 1
        return os;
    }

    class Nested {
        friend ostream& operator<<(ostream& os, const Nested& rhs) {
            os << "I am Nested!";
            return os;
        }
    };

    Nested nest;
};

int main() {
    Thing aThing;                // Line 2
    cout << aThing << endl;      // Line 3

    Thing::Nested aNestling;     // Line 4
    cout << aNestling << endl;   // Line 5
}
```

- | | |
|---|---|
| <input type="radio"/> I am a Thing and I am Nested! | <input type="radio"/> Compilation error at line 3 |
| <input type="radio"/> I am Nested! | <input type="radio"/> Compilation error at line 4 |
| <input type="radio"/> I am a Thing and I am Nested! | <input type="radio"/> Compilation error at line 5 |
| <input type="radio"/> I am Nested! | <input type="radio"/> Compiles but crashes |
| <input type="radio"/> Compilation error at line 1 | <input type="radio"/> None of the above |
| <input type="radio"/> Compilation error at line 2 | |