

Move Operators Exercises

Move operators

- What are the names of the move operators?
- Briefly explain their purpose
- Write down prototypes for the move operators for a class Test

Move operator syntax

- What differences in syntax are there between move operators and their copy equivalents?
- Briefly explain why these differences exist

Move Operator Implementation

- Add copy and move operators to the following class
- Each operator should print out a message when it is called, to say what kind of operator it is
- Write a program to test your class
- Explain your results

```
class Test {  
    private:  
        int i{0};           // Built-in member  
        MyClass m;          // Class member  
    public:  
        Test() = default;    // Constructor (calls m's constructor)  
};
```

Move Operator Implementation

- Explain your results

Move operators for derived classes

- When writing a move operator for a derived class, are there any special considerations you should bear in mind?

Compatibility with older versions of C++

- What happens if we have a class that was written for an older version of C++ and does not have any move operators?
 - The class will behave in the same way as it did before
 - An rvalue object of this class will be copied, or copy assigned (assuming it has copy operators)