

Lesson 3:
Advanced OOP

SEARCH

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Access Specifiers

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Inherited Access Specifiers

Just as access specifiers (i.e. `public`, `protected`, and `private`) define which class members *users* can access, the same access modifiers also define which class members *users of a derived classes* can access.

Public inheritance:

the public and protected members of the base class listed after the specifier keep their member access in the derived class

Protected inheritance:

the public and protected members of the base class listed after the specifier are protected members of the derived class

Private inheritance:

the public and protected members of the base class listed after the specifier are private members of the derived class

Source:

C++ reference

In the exercise below, you'll experiment with access modifiers.

Instructions

1. Update the derived classes so that one has `protected` inheritance and one has `private` inheritance.

2. Try to access a `protected` member from `main()`. Is it possible?

3. Try to access a `private` member from `main()`. Is it possible?

4. Try to access a member of the base class from within the derived class that has `protected` inheritance. Is it possible?

5. Try to access a member of the base class from within the derived class that has `private` inheritance. Is it possible?

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