Introduction to References

What do you think will be printed by this code?

```
Dissertation diss1 = new Dissertation();
Dissertation diss2 = diss1;
diss1 CurrentPage = 0;
diss2 CurrentPage = 16;
Console WriteLine(diss1 CurrentPage);
Console WriteLine(diss2 CurrentPage);
```

Did you guess 0 and 16? The answer is 16 and 16!

To understand what's happening here, we need to understand *references*. They might not be obvious in this code, but learning how to use them unlocks a whole new set of superpowers in C#. This lesson explains:

How references work in C#

Why references are useful

How to upcast a reference

How to create a null reference

✓Instructions

This lesson uses the Book, Dissertation, and Diary classes and the IFlippable interface. Look through each file to get acquainted.

IFlippable is the interface

Book is the base class

Dissertation and Diary are classes that extend the base class and implement the interface

IFlippable CurrentPage Flip()

Author
Title
Book(string, string)
Stringify()





Dissertation: Book, IFlippable

Author

Title

CurrentPage

Disseration(int)

Flip()

Stringify()

Define()

Diary: Book, IFlippable

Author

Title

CurrentPage

Diary(int)

Flip()

Stringify()

SpillSecret()

If you need to refresh yourself with interfaces and inheritance, take the C# Interfaces and Inheritance lessons.