The Little Singleton

A small Socratic exercise in the style of The Little Lisper

How would you create a single object?	new MyObject();
And, what if another object wanted to create a MyObject? Could it call new on MyObject again?	Yes, of course.
So as long as we have a class, can we always instantiate it one or more times?	Yes. Well, only if it's a public class.
And if not?	Well, if it's not a public class, only classes in the same package can instantiate it. But they can still instantiate it more than once.
Hmm, interesting. Did you know you could do this? public MyClass { private MyClass() {} }	No, I'd never thought of it, but I guess it makes sense because it is a legal definition.
What does it mean?	I suppose it is a class that can't be instantiated because it has a private constructor.
Well, is there ANY object that could use the private constructor?	Hmm, I think the code in MyClass is the only code that could call it. But that doesn't make much sense.

creating a singleton

Because I'd have to have an instance of the Why not? class to call it, but I can't have an instance because no other class can instantiate it. It's a chicken-and-egg problem: I can use the constructor from an object of type MyClass, but I can never instantiate that object because no other object can use "new MyClass()". Okay. It was just a thought. MyClass is a class with a static method. We can call the static method like this: What does this mean? MyClass.getInstance(); public MyClass { public static MyClass getInstance() { Why did you use MyClass instead of Well, getInstance() is a static method; in other some object name? words, it is a CLASS method. You need to use the class name to reference a static method. Very interesting. What if we put things together? Wow, you sure can. Now can I instantiate a MyClass? public MyClass { private MyClass() {} public static MyClass getInstance() { return new MyClass(); } } MyClass.getInstance(); So, now can you think of a second way to instantiate an object? Can you finish the code so that only ONE instance Yes, I think so... of MyClass is ever created? (You'll find the code on the next page.)