

## Classes Review

1. What's a *constructor*? Write a constructor for the Book class that lets you specify the title, author, publication year, and number of pages in a particular book.
2. Suppose you're in some other part of the program. Write a line of code to declare a variable called `book1` that holds information about "The Fellowship of the Ring," by J.R.R. Tolkien, which was first published in 1954 and has 423 pages.
3. Now declare another variable called `book2` that holds information about "The Two Towers," also by J.R.R. Tolkien, which was first published in 1954 and has 352 pages.
4. What's an *instance variable*? What does it mean for an instance variable to be *private*, and why might we want private instance variables?

5. Why can I *not* write the line of code `book1.author = "Kristy Gardner"`?

6. Why can I also *not* write the line of code `Book.setAuthor("Kristy Gardner")`?

7. What happens if we call `book1.setAuthor("Kristy Gardner")`?

8. What happens if we call `book1.compareLength(book2)`?