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 \textit{not} write the line of code \texttt{book1.author = "Kristy Gardner"}?

6. Why can I also \textit{not} write the line of code \texttt{Book.setAuthor("Kristy Gardner")}?

7. What happens if we call \texttt{book1.setAuthor("Kristy Gardner")}?

8. What happens if we call \texttt{book1.compareLength(book2)}?