

## SI@UCF Object-Oriented Homework: Book Class

Write a Book class that describes a “Book” object.

Here are the instance variables of the Book class:

```
author
title
pages
curpage
```

Here are the methods your class should include:

```
# Creates a book object with the given information, setting
# the current page to 0.
def __init__(self, author, thistitle, pages):

# Advances the bookmark by numpages. If there are fewer pages
# to read, then the curpage is set to the last page.
def read(self, numPages):

# Creates a new Book object with the same author as this Book
# the same title with "II" appended to it, with numpages
# number of pages and sets the bookmark to 0. This new object
# is returned.
def makeSequel(self, numPages):

# Returns the number of pages left to read in this Book.
def pagesLeft(self):

# Returns the number of pages in the Book.
def getNumPages(self):
```

The code above should be stored in Book.py

After completing the Book class, write a main method that takes care of the following:

- 1) Prompts the user for the necessary book information.
- 2) Simulates the user reading some pages from that book every day.
- 3) When the user finishes, the program should print out how many days it took for the user to finish the book, the average number of pages read a day, and automatically create a new Book object, the sequel, to the original book.
- 4) Then simulate the user reading some pages from this sequel every day.
- 5) When this is done, also print out how many days the user took to read this sequel, the average number of pages read a day for this book, and the average number of pages read over the course of reading both books.

Follow the format shown below. In particular, assume that the user will always read a positive number of pages, but if they enter too many pages to read (more than are left in the book), provide an error message that states this and tells the user how many pages they actually read to finish the book.

After the first book is done, always ask the user how many pages are in the sequel.

The program should terminate after the second book is read and the statistics are all printed.

**Sample Run (User input in bold)**

What is the title of your book?

**TomSawyer**

Who is the author?

**MarkTwain**

How many pages is the book?

**248**

Now you are reading TomSawyer by MarkTwain!

How many pages did you read on day 1?

**40**

How many pages did you read on day 2?

**30**

How many pages did you read on day 3?

**108**

How many pages did you read on day 4?

**50**

How many pages did you read on day 5?

**26**

You only had 20 pages left, so this is what you read.

Congrats on finishing your book!

You read 248 pages in 5 days for an average of 49.6 pages/day.

How many pages does the sequel have?

**300**

Now, you are reading TomSawyerII by MarkTwain!

How many pages did you read on day 1?

**100**

How many pages did you read on day 2?

**100**

How many pages did you read on day 3?

**100**

Congrats on finishing your book!

You read 300 pages in 3 days for an average of 100 pages/day.

In all, you read 548 pages in 8 days for an average of 68.5 pages/day.