4/3/2018 HackerRank



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Day 13: Abstract Classes ☆



Problem

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Objective

Today, we're taking what we learned yesterday about *Inheritance* and extending it to *Abstract Classes*. Because this is a very specific Object-Oriented concept, submissions are limited to the few languages that use this construct. Check out the Tutorial tab for learning materials and an instructional video!

Task

Given a Book class and a Solution class, write a MyBook class that does the following:

- Inherits from Book
- Has a parameterized constructor taking these **3** parameters:
 - 1. string *title*
 - 2. string author
 - 3. int *price*
- Implements the *Book* class' abstract *display()* method so it prints these **3** lines:
 - 1. Title:, a space, and then the current instance's title.
 - 2. Author:, a space, and then the current instance's author.
 - 3. Price:, a space, and then the current instance's *price*.

Note: Because these classes are being written in the same file, you must not use an access modifier (e.g.: **public**) when declaring *MyBook* or your code will not execute.

Input Format

You are not responsible for reading any input from stdin. The *Solution* class creates a *Book* object and calls the *MyBook* class constructor (passing it the necessary arguments). It then calls the *display* method on the *Book* object.

Output Format

The *void display()* method should print and label the respective *title*, *author*, and *price* of the *MyBook* object's instance (with each value on its own line) like so:

Title: \$title
Author: \$author
Price: \$price

Note: The **\$** is prepended to variable names to indicate they are placeholders for variables.

Sample Input

The following input from stdin is handled by the locked stub code in your editor:

The Alchemist Paulo Coelho 4/3/2018 HackerRank

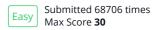
248

Sample Output

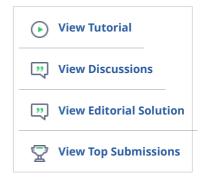
The following output is printed by your *display()* method:

Title: The Alchemist Author: Paulo Coelho

Price: 248



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```
Current Buffer (saved locally, editable) & • •
                                                                         lava 8
                                                                                                        Ö
 1 ▶ import ↔;
 2
 3 ▼ abstract class Book {
 4
        String title;
 5
        String author;
 6
 7 ▼
        Book(String title, String author) {
 8
            this.title = title;
            this.author = author;
 9
10
        }
11
12
        abstract void display();
    }
13
    // Declare your class here. Do not use the 'public' access modifier.
14
        // Declare the price instance variable
15
16
17 ▼
18
            Class Constructor
19
20
            @param title The book's title.
            @param author The book's author.
21
22
            @param price The book's price.
23
        // Write your constructor here
```