

SOLID Principles Exercise

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The 1st Problem: Rectangle & Square

- ◇ You should find the following files inside the downloaded zip:
 - ◇ Rectangle.java
Rectangle class contains width, height, and a method to calculate area.
 - ◇ Square.java
Square class extends Rectangle and override some of its methods.
 - ◇ Main.java
Main.java demonstrates the problem. Feel free to edit the file as you see fit.
- ◇ **Please refactor the Rectangle and Square class to avoid the problem from LSP violation!**
- ◇ **After refactoring, Rectangle and Square must be somehow related.**

The 2nd Problem: Book Printing

- ◇ You should find the following files inside the downloaded zip:
 - ◇ Book.java
Book class contains title, pages (a list of strings) and methods to print pages.
 - ◇ BookReader.java
BookReader class demonstrates how a reader print pages from an instance of Book.
 - ◇ BookPublisher.java
BookPublisher class demonstrates how a publisher print pages from an instance of Book.
- ◇ **Please refactor the Book class to avoid the problem from SRP & ISP violation!**

About refactoring

- ◇ Refactoring must be done based on good OOP design.
- ◇ Feel free to add new files if you see fit!
- ◇ Please do not edit specified parts of the files as indicated by the comments.
- ◇ Please **DO NOT REMOVE** the code on your GitHub until your grade is out!!
- ◇ If any question, feel free to ask.