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Part 1 Instructions

Object 1:

- The book's name: Naruto
- The book's author(s) (a book can have more than one author): Masashi

Kishimoto

- The book's publisher: Shueisha
- The book's ISBN number: 9781569319000
- The book's price: \$9.99
- The book's year of publication: 1999

Object 2:

- The book's name: Gateways to Arts: Understanding the Visual Arts
- The book's author(s) (a book can have more than one author): Debra J Dewitte,

Ralph M Larmann, M Kathryn Shields

- The book's publisher: Thames & Hudson
- The book's ISBN number: 9780500841150

- The book's price: \$175.49
- The book's year of publication: 2018

Object 3:

- The book's name: Steve Jobs
- The book's author(s) (a book can have more than one author): Walter Isaacson
- The book's publisher: Simon & Shuster
- The book's ISBN number: 9781451648539
- The book's price: \$17.33
- The book's year of publication: 2011

First, answer the following questions before the design:

1. What is a suitable name for this class? (Pick a name that best describes it).

Book

2. What attributes should this class have?

String name, vector <string> authors, string publisher, string ISBN_number,
double price, int year_of_publication

3. What methods do you think would be essential for this class?

Getter, void

- a. Do we need getters/setters? Consider the attributes needed and what operations this class needs to support. Justify briefly each operation chosen.

Yes, we do need getters to use the attributes of private in public. We also might have used setters, if, i.e the publisher might change and in this case, we will need them.

Class Book
Attributes
-title: String
-string: Vector <authors>
-ISBN_number: String
-price: Double
-year_of_publication: Integer
-publisher: String
Methods
<constructor> +Class Book ()
+ show_info(): None
+getTitle: String
+getAuthor: String
+getPublisher: String
+getISBN_number: String
+getPrice: Double
+getYear_of_publication: Integer

“-“ -> private attributes

“+” -> public attributes

Methods:

+show_info is a void function,
that's why it has “None”.

All the getters return the values
that their names indicate along with the
values according to their assigned types.

F.e. +getTitle is a getTitle method

located in a public section, and has a
string return value.