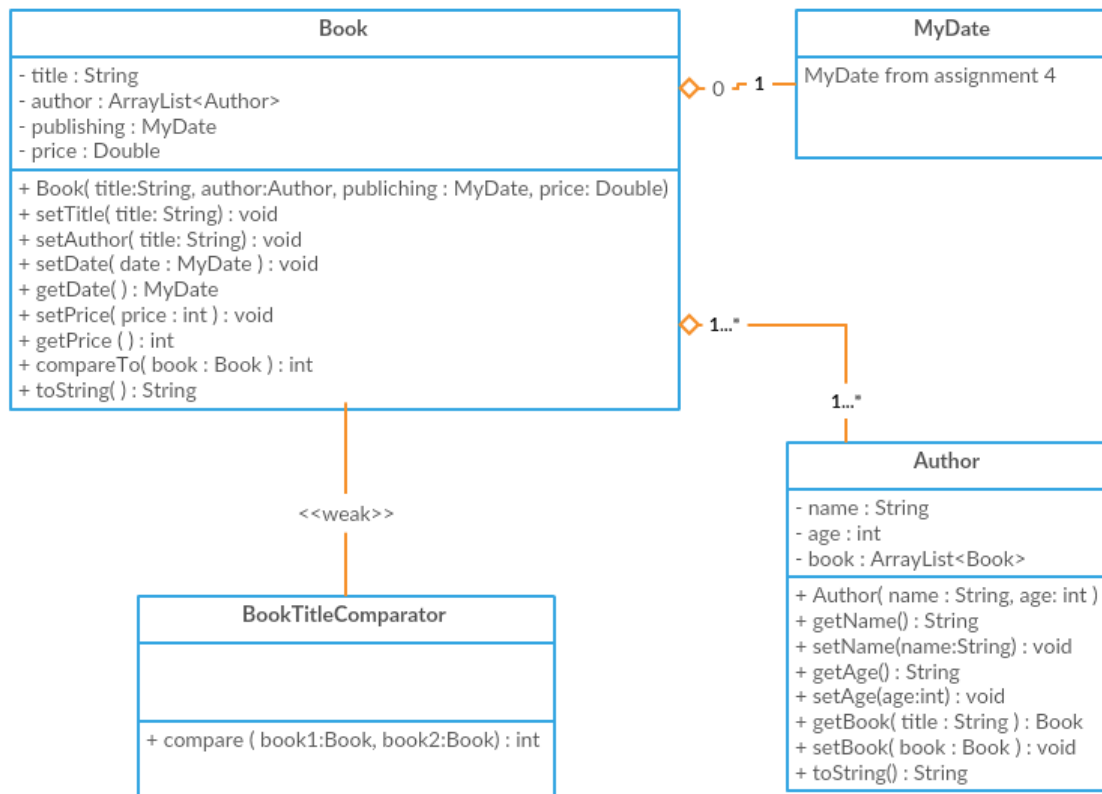


Project#5:

Implement the classes in the following class diagram. The Book class implements the Comparable interface. Use *implements Comparable<Book>* in the class definition. Now, all book objects are instances of the java.lang.Comparable interface. Write a test program that creates an array of ten books.

1. Use Arrays.sort(Book[] books) from the java.util package to sort the array. The order of objects in the array is determined using *compareTo(...)* method.
2. Write a method that returns the most expensive book in the array of objects (Books).
 - The method signature is: public static Book max (Book[] books)
3. Create another class BookTitleComparator that implements the Comparator interface in which overrides the *compare(Book a, Book b)* method. Use the *implements Comparator<Book>* in the class definition in order to compare objects of type Book. The *compare(Book a, Book b)* method should compare the titles of the two books.
4. Using Arrays.sort(Book[] books, new BookTitleComparator()) to sort books by the title.
 - Arrays.sort(books, new BookTitleComparator());
5. Create a method to show each element in the array with the following method signature:
 - public static void showBooksArray (books)



Note : You need to write a class MyDate that have method getDate , setDate and toString() method

Feel free to add any method that you think is useful.