Project: reference database

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# Step 1: development of a single class

To refer to an article in a scientific journal one needs

1. the title;
2. the author(s);
3. the name of the journal it was published in;
4. the issue number of the journal;
5. the year of publication.

A Java class should be defined to represent journal articles. This class should have the attributes listed above. It should define setters and getters for each of the attributes. The name of an author is given as last name, first name, e.g., “Einstein, Albert”. Since an article can have multiple authors, this attribute is represented as an array.

Define and implement the following methods

1. an inspector that returns the number of authors
2. an inspector that returns an array of authors, but represented as strings consisting the author’s initial and the last name, e.g., “A. Einstein”;
3. a mutator that capitalizes the title, if the original title was “Brownian motion in fluids”, it should be changed to “Brownian Motion In Fluids”;
4. an inspector that returns true if the article was published more that 10 years ago.

Obviously, the implementation should adhere to the design principles presented in the course. Attention should be paid to documentation and proper (informal) specification.

Feel free to use the Java standard library in your implementation.