

Front end development: Objects

Objects - Star - Book Utils

The following exercise contains the following subjects:

- Javascript

Question

1. create 2 book objects with properties: name, author, year.
2. create an empty object bookUtils (utils = short for utilities).
3. add to the bookUtils object a function getFirstPublished, that receives 2 books and returns the book with the smaller year.
4. add to the bookUtils object a function setNewEdition, that receives a book and an edition year and sets a new property latestEdition with the edition year, or updates an existing one.
5. add to the bookUtils object a setLanguage function, that receives a book and a language and sets a new property language with the language, or updates an existing one.
6. add to the bookUtils object a setTranslation function, that receives a book a language and a translator, and sets a new property of translation, which is an object that contains the translator and the language.
7. add to the bookUtils object a setPublisher function, that receives a book a name and a location, and sets a new property named publisher, which is an object that contains the name and location.
8. add to the bookUtils object a function isSamePublisher, that receives 2 books and checks if the publisher name and location are identical in the 2 books.

Tests

```
test_equal(bookUtils.getFirstPublished(book1, book2).year, 1951)
```

```
bookUtils.setNewEdition(book1, 1989);
```

```
bookUtils.setLanguage(book1, "Russian");
```

```
bookUtils.setTranslation(book1, "chinese", "Han Liu");
```

```
bookUtils.setPublisher (book1, "Keter", "Tel Aviv");
```

continue on the next page!

```
var expected1 = {  
    name: "foundation",  
    author: "Isaac Asimov",  
    year: 1951,  
    latestEdition: 1989,  
    language: "Russian",  
    translation: {  
        translator: "Han Liu",  
        language: "chinese",  
    },  
    publisher: {  
        name: "Keter",  
        location: "Tel Aviv"  
    }  
}  
  
test_equal(book1, expected1);  
  
bookUtils.setPublisher (book2, "Keter", "Jerusalem");  
  
test_equal(bookUtils.isSamePublisher(book1, book2), false);  
  
bookUtils.setPublisher (book2, "Keter", "Tel Aviv");  
  
test_equal(bookUtils.isSamePublisher(book1, book2), true);
```