



Library

JS - Recap

The following exercise contains the following subjects:

- Everything we have learned
- JS

Instructions

Develop a system that allows users to manage a collection of books.

Questions

- **Add a Book:** Create a function `addBook(title, author)` that allows users to add a book. Ensure that the same book (by title and author) cannot be added more than once.
- **List All Books:** Create a function `listBooks()` that displays all the books in the library..
- **Mark a Book as Read:** Create a function `markAsRead(title)` that updates the read status of a book to true.
- **Delete a Book:** Create a function `deleteBook(title)` that removes a book from the library.
- **Find a Book:** Create a function `findBook(query)` that lets users search for a book by title or author.
- **Sort Books Alphabetically:** Create a function `sortBooks()` that displays all books sorted alphabetically by their title.
- **List Unique Authors:** Create a function `uniqueAuthors()` that lists all unique authors in the library.

- **Books Count by Author:** Create a function `booksByAuthor(authorName)` that returns the number of books written by a specific author.
- **Filter Books by Read Status:** Create a function `filterByReadStatus(status)` that lists all books either read or not read, based on the provided status.
- **Find Books with Titles Longer Than X Characters:** Create a function `longTitleBooks(charCount)` that finds all books with titles longer than the provided character count.
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- **Bonus Challenges:**
 - Extend the `addBook` function to also accept and store a book's genre and publish date.
 - Create a function `listUnreadBooks()` to display only the books that haven't been read.
 - Implement a `toggleReadStatus(title)` function that toggles the read status of a book.
- **Tips:**
 - **Make use of array methods like `push()`, `find()`, `findIndex()`, `filter()`, and `splice()`.**
 - **Use the given library array as the primary data structure to hold books.**
 - **Remember to test each function after you write it to ensure it works as expected.**