**contract** Library {

**struct** Book {

**string** title;

**string** author;

**uint** bookId;

**address** registrant;

}

Book[] **public** books;

**function** addBook(**string** **memory** \_title, **string** **memory** \_author) **public** {

// whoever adds a book, that is the registrant on this book

books.push(Book(\_title, \_author, books.length, msg.sender));

}

**function** get(**uint** \_bookId) **public** **view** **returns** (**string** **memory** \_title, **string** **memory** \_author) {

**return**(books[\_bookId].title, books[\_bookId].author);

}

**function** update(**uint** \_bookId, **string** **memory** \_newTitle, **string** **memory** \_newAuthor) **public** {

// protect our book record by only making

// this function available to the original registrant

**require**(msg.sender == books[\_bookId].registrant, 'You must have been the one to add the book to change the record!');

books[\_bookId].title = \_newTitle;

books[\_bookId].author = \_newAuthor;

}

}