## 2.BookClub

class BookClub {

//TODO Implement this class

}

Write a class **BookClub**, which implements the following functionality:

### Functionality

**Constructor**

Should have these **3** properties:

* **library –** String
* **books –** Array (empty)
* **members** **–** Array (empty)

The constructor should accept the initial **library** name when the **BookClub** is initialized.

#### addBook (title, author)

Both **title** and **author** are of type **string**.

If the book is already in the books array, **return:**

"**The book "{title}" by {author} is already in {library} library.**"

* Otherwise, this function should add the book with the properties: **title** and **author** to the books array, and **return**:

"**The book "{title}" by {author} has been added to {library} library.**"

#### addMember (memberName)

The **memberName** is of type **string**.

* If the member is already a part of the book club, **return**:

"**Member {memberName} is already a part of the book club.**"

* Otherwise, this function should **add** the member to the **members** array and **return:**

"**Member {memberName} has been joined to the book club.**"

#### assignBookToMember (memberName, bookTitle)

* If the **memberName** is **not found** in **members** array, throw **an Error:**

"**Member {memberName} not found.**"

* If the **bookTitle** is **not found** in **books** array, throw **an Error:**

"**Book "{bookTitle}" not found.**"

* Otherwise, this function should **remove the book** from the books array**,** and **return:**

"**Member {memberName} has been assigned the book "{assignedBook}" by {author}.**"

#### generateReadingReport ()

This method should **return** the complete information about the book club:

* If the club does **not** have any members, **return:**

**"No members in the book club."**

* If there are no available books, **return:**

"**No available books in the library.**"

* Otherwise **return**:

"**Available Books in {library} library:**"

* And on the **new line**, display information about each book in the club library:

**""{book}" by {author}"**

### Examples

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| **Input 1** |
| const myBookClub = new BookClub('The Bookaholics');  console.log(myBookClub.addBook("The Great Gatsby", "F. Scott Fitzgerald"));  console.log(myBookClub.addBook("To Kill a Mockingbird", "Harper Lee"));  console.log(myBookClub.addBook("1984", "George Orwell"));  console.log(myBookClub.addMember("Alice"));  console.log(myBookClub.addMember("Peter"));  console.log(myBookClub.assignBookToMember("Mary", "The Great Gatsby")); |

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| **Output 1** |
| The book "The Great Gatsby" by F. Scott Fitzgerald has been added to The Bookaholics library.  The book "To Kill a Mockingbird" by Harper Lee has been added to The Bookaholics library.  The book "1984" by George Orwell has been added to The Bookaholics library.  Member Alice has been joined to the book club.  Member Peter has been joined to the book club.  Uncaught Error Error: Member Mary not found. |

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| --- |
| **Input 2** |
| const myBookClub = new BookClub('The Bookaholics');  console.log(myBookClub.addBook("The Great Gatsby", "F. Scott Fitzgerald"));  console.log(myBookClub.addBook("To Kill a Mockingbird", "Harper Lee"));  console.log(myBookClub.addBook("1984", "George Orwell"));  console.log(myBookClub.addMember("Alice"));  console.log(myBookClub.addMember("Alice"));  console.log(myBookClub.assignBookToMember("Alice", "The Great Gatsby"));  console.log(myBookClub.generateReadingReport()); |

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| **Output 2** |
| The book "The Great Gatsby" by F. Scott Fitzgerald has been added to The Bookaholics library.  The book "To Kill a Mockingbird" by Harper Lee has been added to The Bookaholics library.  The book "1984" by George Orwell has been added to The Bookaholics library.  Member Alice has been joined to the book club.  Member Alice is already a part of the book club.  Member Alice has been assigned the book "The Great Gatsby" by F. Scott Fitzgerald.  Available Books in The Bookaholics library:  "To Kill a Mockingbird" by Harper Lee  "1984" by George Orwell |

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| --- |
| **Input 3** |
| const myBookClub = new BookClub('The Bookaholics');  console.log(myBookClub.addBook("The Great Gatsby", "F. Scott Fitzgerald"));  console.log(myBookClub.addBook("To Kill a Mockingbird", "Harper Lee"));  console.log(myBookClub.addBook("1984", "George Orwell"));  console.log(myBookClub.addMember("Alice"));  console.log(myBookClub.addMember("Peter"));  console.log(myBookClub.assignBookToMember("Peter", "The Da Vinci Code")); |

|  |
| --- |
| **Output 3** |
| The book "The Great Gatsby" by F. Scott Fitzgerald has been added to The Bookaholics library.  The book "To Kill a Mockingbird" by Harper Lee has been added to The Bookaholics library.  The book "1984" by George Orwell has been added to The Bookaholics library.  Member Alice has been joined to the book club.  Member Peter has been joined to the book club.  Uncaught Error Error: Book "The Da Vinci Code" not found. |

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| --- |
| **Input 4** |
| const myBookClub = new BookClub('The Bookaholics');  console.log(myBookClub.addBook("To Kill a Mockingbird", "Harper Lee"));  console.log(myBookClub.addBook("1984", "George Orwell"));  console.log(myBookClub.addMember("Alice"));  console.log(myBookClub.addMember("Peter"));  console.log(myBookClub.assignBookToMember("Peter", "1984"));  console.log(myBookClub.assignBookToMember("Alice", "To Kill a Mockingbird"));  console.log(myBookClub.generateReadingReport()); |

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| --- |
| **Output 4** |
| The book "To Kill a Mockingbird" by Harper Lee has been added to The Bookaholics library.  The book "1984" by George Orwell has been added to The Bookaholics library.  Member Alice has been joined to the book club.  Member Peter has been joined to the book club.  Member Peter has been assigned the book "1984" by George Orwell.  Member Alice has been assigned the book "To Kill a Mockingbird" by Harper Lee.  No available books in the library. |