```html
<!DOCTYPE html>
<html lang="en">
<head>
    <meta charset="UTF-8">
    <meta name="viewport" content="width=device-width, initial-scale=1.0">
    <title>Document</title>
</head>
<body>
    <script>
function Book(title, author, yearPublished, readStatus) {
  this.title = title;
  this.author = author;
  this.yearPublished = yearPublished;
  this.readStatus = readStatus;
  this.getSummary = function() {
    return this.title + " by " + this.author + ", published in " +
this.yearPublished + ", read status: " + this.readStatus;
  };
  this.toggleReadStatus = function() {
    this.readStatus = !this.readStatus;
  };
}
var library = [];
function addBook(book) {
  library.push(book);
}
function removeLastBook() {
  library.pop();
}
function addBookToFront(book) {
  library.unshift(book);
}
function removeFirstBook() {
  library.shift();
}
function getAllTitles() {
```

```javascript
    return library.map(function(book) {
      return book.title;
    });
}
function getBooksByAuthor(author) {
  return library.filter(function(book) {
    return book.author === author;
  });
}
function getTotalBooksPublishedBefore(year) {
  return library.filter(function(book) {
    return book.yearPublished < year;
  }).reduce(function(count, book) {
    return count + 1;
  }, 0);
}
function removeBookByTitle(title) {
  var index = library.findIndex(function(book) {
    return book.title === title;
  });
  if (index !== -1) {
    library.splice(index, 1);
  }
}
function getBooksByReadStatus(status) {
  return library.filter(function(book) {
    return book.readStatus === status;
  });
}
function getSubLibrary(start, end) {
  return library.slice(start, end);
}
var book1 = new Book("The Great Gatsby", "F. Scott Fitzgerald", 1925,
false);
var book2 = new Book("To Kill a Mockingbird", "Harper Lee", 1960, true);
var book3 = new Book("1984", "George Orwell", 1949, true);
addBook(book1);
addBook(book2);
addBook(book3);
console.table(book1);
```

```
console.log(book2);
console.log(book3);
console.log(getAllTitles());
console.log(getTotalBooksPublishedBefore(1950));
removeBookByTitle("1984");
console.log(getAllTitles());
    </script>
</body>
</html>
```

OUTPUT:

```
> Book {title: 'The Great Gatsby', author: 'F. Scott Fitzgerald', yearPublished: 1925, readStatus: false, getSummary: f, toggleReadStatus: f}
                                                                                                                                   miniproj2-319.html:75
> Book {title: 'To Kill a Mockingbird', author: 'Harper Lee', yearPublished: 1960, readStatus: true, getSummary: f, …}
                                                                                                                                   miniproj2-319.html:76
> Book {title: '1984', author: 'George Orwell', yearPublished: 1949, readStatus: true, getSummary: f, …}
                                                                                                                                   miniproj2-319.html:77
> (3) ['The Great Gatsby', 'To Kill a Mockingbird', '1984']
                                                                                                                                   miniproj2-319.html:78
  2
> (2) ['The Great Gatsby', 'To Kill a Mockingbird']                                                                                miniproj2-319.html:80
```