

```
let book library collections = [];
let books = [
  {
    book title: "A Time to Kill",
    author name: "John Grisham",
    year of publication: 1989
    book title: "The Firm",
    author name: "John Grishamn",
    year of publication: 1991
  },
    book title: "The Pelican Brief",
    author name: "John Grisham",
    year of publication: 1992
    book_title: "The Client",
    author name: "John Grisham",
    year of publication: 1993
  }, {
    book title: "The Chamber",
    author name: "John Grisham",
    year of publication: 1994
    book title: "The Rainmaker",
    author name: "John Grisham",
    year of publication: 1995
  },
    book title: "The Runaway Jury",
    author name: "John Grisham",
    year of publication: 1996
    book title: "The Partner",
    author name: "John Grisham",
    year of publication: 1997
  },
```

```
book title: "The Street Lawyer",
  author name: "John Grisham",
  year of publication: 1998
},
  book title: "The Testament",
  author_name: "John Grisham",
  year of publication: 1999
  book title: "The Brethren",
  author name: "John Grisham",
  year of publication: 2000
},
  book title: "The Painted House",
  author name: "John Grisham",
  year of publication: 2001
},
  book title: "The Skipping Christmas",
  author name: "John Grisham",
  year_of_publication: 2001
  book title: "The Summons",
  author name: "John Grisham",
  year of publication: 2002
},
  book title: "The King of Torts",
  author name: "John Grisham",
  year of publication: 2003
},
  book title: "The Bleachers",
  author name: "John Grisham",
  year of publication: 2003
},
  book title: "The Last Juror",
  author name: "John Grisham",
  year of publication: 2004
},
  book title: "The Broker",
```

```
author name: "John Grisham",
  year of publication: 2005
},
  book title: "Playing for Pizza",
  author name: "John Grisham",
  year_of_publication: 2007
},
  book title: "The Appeal",
  author name: "John Grisham",
  year of publication: 2008
},
  book title: "The Associate",
  author name: "John Grisham",
  year of publication: 2009
  book title: "The Confession",
  author name: "John Grisham",
  year of publication: 2010
},
  book title: "The Litigators",
  author name: "John Grisham",
  year of publication: 2011
},
  book title: "Calico Joe",
  author name: "John Grisham",
  year of publication: 2012
  book title: "The Racketeer",
  author_name: "John Grisham",
  year of publication: 2012
},
  book_title: "Sycamore Row",
  author name: "John Grisham",
  year of publication: 2013
},
  book title: "Gray Mountain",
  author name: "John Grisham",
```

```
year of publication: 2014
  },
1
function add book to library() {
  console.log("Question 1, add the following books in the library collection for author John
Grisham");
  console.log("==
  for (let i = 0; i < books.length; i++)
    book library collections.push(books[i])
  return book library collections;
//////QUESTION 1 IMPLEMENTATION ENDS HERE ///////////////
////////// QUESTION 2 IMPLEMENTATION STARTS HERE ///////////
function books published before 2000(book library collection) {
  console.log("Question 2 A, Find All the books published before 2000 (by any author)");
  console.log("======
  let all books published before 2000 = [];
  for (let index = 0; index < book library collection.length; index++) {
    let authorBook = book library collection[index];
    if (authorBook.hasOwnProperty("year of publication") &&
authorBook.hasOwnProperty("book title")) {
       if (authorBook.year of publication <= 2000)
         all books published before 2000.push(authorBook.year of publication);
    }
  }
  console.log(all books published before 2000);
}
function books published by john(book library collection) {
  console.log("Question 2 A: Find books published by john")
  for (let index = 0; index < book library collection.length; index++) {
    let authorBook = book library collection[index];
```

```
if (authorBook.hasOwnProperty("book title") &&
authorBook.hasOwnProperty("author name")) {
      if (authorBook.author name === "John Grisham")
         console.log(authorBook.author name)
    }
function books published not by john(book library collection) {
  console.log("Question 2 C: Find books NOT published by john")
  console.log("====
  for (let index = 0; index < book library collection.length; index++) {
    let authorBook = book library collection[index];
    if (authorBook.book title && authorBook.author name !== "John Grisham")
      authorBook.book title.concat(authorBook.author name);
  }
}
function books published between 2000 and 2009(book library collection) {
  console.log("Question 2 D: Find All the books published between years 2000 and 2009")
  console.log("====
  for (let index = 0; index < book library collection.length; index++) {
    let authorBook = book library collection[index];
    if ((authorBook.year of publication >= 2000) && (authorBook.year of publication <=
2009))
      console.log(authorBook.year of publication);
}
function books number of books published after 2009(book library collection) {
  console.log("Question 2 E: Find the number of books published after 2009")
  for (let index = 0; index < book library collection.length; index++) {
    let authorBook = book library collection[index];
    if (authorBook.year of publication > 2009)
      console.log(authorBook.year of publication);
}
```

```
function queries to find the following(book library collection) {
  books published before 2000(book library collection);
  books published by john(book library collection);
  books published not by john(book library collection);
  books published between 2000 and 2009(book library collection);
  books number of books published after 2009(book library collection);
//////// QUESTION 2 IMPLEMENTATION ENDS HERE ///////////
////////////////////////////////////OUESTION 3 IMPLEMENTATION STARTS HERE ///////////
function delete all books published after 2009(book library collection) {
  console.log("Question 3 A: Delete All the books published before 2000 (by any author)")
  let arr = [];
  arr = book library collection.filter(n => n.year of publication < 2009);
  console.log(arr);
function delete all books published by john grisham(book library collection) {
  console.log("Question 3 B: Delete All the books published by John Grisham")
  console.log("=
  let arr = [];
  arr = book library collection.filter(n => n.year of publication < 2009);
  console.log(arr);
}
function delete all books not published by john grisham(book library collection) {
  console.log("Question 3 C: Delete All the books not published by John Grisham")
  console.log("====
  let arr = [];
  arr = book library collection.filter(n => n.year of publication < 2009);
  console.log(arr);
}
function delete all books not published between 2000 and 2009(book library collection)
  console.log("Question 3 D: Delete All the books published between years 2000 and 2009
(by any author)")
  console.log("===
```

```
let arr = [];
  arr = book library collection.filter(n => n.year of publication < 2009);
  console.log(arr);
}
function queries to delete the following(book library collection) {
  delete all books published after 2009(book library collection);
  delete all books published by john grisham(book library collection);
  delete all books not published by john grisham(book library collection);
}
/*
  Question 1
  Write a JavaScript function to add the following books in the library collection for
author John
  Grisham. The number in the parentheses is the year of publication.
*/
let book library = add book to library();
/*
  Ouestion 2
  Write queries to find the following:
*/
queries to find the following(book library);
/*
  Question 3
  Write queries to delete the following:
*/
queries to delete the following(book library)
/*
 Question 4 (Community Project)
Either develop or selection a mobile application. Demonstrate this application to a
community of your
*/
```

choice. Discuss the application created/selected and how this uplifted the selected community.

*/