This assignment involves using Java RMI. Write a library server program, which can execute the following operations on its book database:

```java
boolean newbooks(in Bookstr book);
boolean checkout(in string isbn);
boolean return(in string isbn);
Bookstr query(in string isbn);
```

The server and the client may be executing on different machines. The interface to the server is defined in IDL as follows:

```idl
module LibraryApp
{
  interface Library
  {
    struct Bookstr
    {
      string isbn;
      string author_lname;
      string author_fname;
      string title;
      short pubyear;
      short copies;
    };
    // This method is used when books are purchased and added to the library
    // More than one copy of a book may be added at a time.
    // Additional copies of an existing book may also be added
    // The copies entry of the Bookstr indicates how many copies are being
    // added to the library.
    boolean newbooks(in Bookstr book);

    // Method to checkout books from the library. Each invocation checks out only
    // one book. It returns TRUE if the checkout was successful. This happens
    // if there is at least one copy of the book in the library. Returns
    // FALSE when no copies of the book are available.
    boolean checkout(in string isbn);
  }
}
```
// Method to return books to the library; Only books checked out can be
// checked in to the library. Returns TRUE if the book is a valid book
// if it did exist in the library prior to return. FALSE is returned
// otherwise.

    boolean return(in string isbn);

// Check the status of a book by isbn and returns a book structure
// query.copies = -1 if the book is not carried by the library
// query.copies>= 0 if the book is carried by the library
//
    BookStr query(in string isbn);

};

};

You should write the code for the server, and write a reasonable client program
demonstrating the use of all the operations of the server interface. The set of ISBNs and
their information is available under testdata1. I will later supply you with a sequence of
server operations that I want your client to execute. I would look at the output given
by the client for each of these operations. Implement the client and server in Java using
Java RMI.

What to submit? (i) Directory with the code (ii) Output as a text file