

# Tasks

1. Create a class **Book** with the following requisites:
  - a book has ISBN, title, author and copyright date;
  - also store whether book is checked out;
  - create functions for returning those data values;
  - create functions to check a book in and out;
  - do some validation on the ISBN accepting only those in the format **n-n-n-x** where **n** is an integer and **x** is a digit or a letter Store the ISBN in a **string**;
  - add operators for the **Book** class. Have the operator **==** check whether the ISBN number is the same for two books;
  - create an enumerated type for the **Book** class called **Genre**. Have the types for fiction, nonfiction, periodical, biography and children. Give each book a **Genre** and make appropriate changes to constructor and member functions;
2. Create a class **Library** with a vector of **Book**. Create methods to include books, checkout and check in books and list the books currently available for checking out.