Exercises – Binary Files

We’re going to make a program that handles records from a Library:  
  
001.645.2 <- Call number  
Learning C++ <- Title  
Gregory Harrison <- Author  
1 <- Book Status (1=in library, 2=on loan, 3=lost)  
001.721.3 <- Call number  
C++ for beginners <- Title  
Quentin Resnick <- Author  
2 <- Book Status (1=in library, 2=on loan, 3=lost)  
25 9 1999 <- due date  
Me <- Borrowers name

1. Create a struct that can store the above data
2. Write a program that asks the user to enter the data for a book and store it in the struct
3. Write a function that saves the data in binary format and appends it to the end of the file
4. Write a function that loads the data in binary format and displays it to the screen upon request. Allow the user to choose which book to display.
5. Challenge: Write a function to update the status of one record. This function will need to update that record (and only that record) in the binary file. Some example pseudocode:  
     
   OPEN library.dat  
   SEEK to the appropriate record then  
   WRITE the record to the binary file  
   close the file