

Project 10

Write the base class called “Book” that is an abstract data type for storing information about a book. Your class should have two fields of type String, the first is to store the author’s name and the second is to store the book title. Include the following member functions: a constructor to set the book title and author, a second constructor which sets the book title to a parameter passed in and the author to “unknown”, and a method to get the author and title concatenated into a single C++ String. The class should have a method for printing the book information.

Write two derived classes called UpdatedBook and OutOfPrintBook. Both classes inherit the Book class members. UpdatedBook class should contain an integer field for the edition number of the book, a constructor to create the UpdatedBook object accepting as input the author, title, and edition number of the book, and a getter method to return the edition number. OutOfPrintBook should have a field to store the last printed date. The date type should be a struct type including the day, month and year.

Write a driver program that has a Dynamic array for storing a few OutOfPrintBook objects. You should ask the user to enter the number of out of print books. In the driver class, all the fields should be initialized by the user.

After creating the OutOfPrintBook objects, and storing them in a dynamic array, your code should print them out using the member function of the OutOfPrintBook objects.

Don’t forget to redefine the printBook() method in the derived classes to include the specific field of that object.

The deliverable: (Do NOT change the class names)

- Book.h
- Book.cpp
- UpdatedBook.h
- UpdatedBook.cpp
- OutOfPrintBook.h
- OutOfPrintBook.cpp
- Source.cpp