**Little Library Setup:**

* Create a new Console Application called LittleLibrary
* Create Menu in Main method; should be a standard menu (loops, takes user choice, etc)
  + Create the Menu to match the output below
  + Also create the 2 submenus: Library Services & Manage Account
  + Don’t put anything in your cases yet except for text

The Little Library

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Main Menu

1. Show Top Books by Genre
2. Find a Specific Book
3. Library Services
4. Manage Account
5. Exit

Select an option: 3

Main Menu --> Library Services

1. Take Out a Book
2. Return a Book
3. See Current Fines
4. Pay Fines
5. Back to Main Menu

Main Menu

1. Show Top Books by Genre
2. Find a Specific Book
3. Library Services
4. Manage Account
5. Exit

Select an option: 4

Main Menu --> Manage Account

1. Create New Account
2. Manage Existing Account
3. Back to Main Menu

* Create a class called Account
  + **Private fields:** 
    - string \_accountID
    - string \_firstName
    - string \_lastName
    - decimal \_fines
    - List<Books> \_booksOut
    - datetime \_dateCreated
  + **Properties:** 
    - AccountID, Fines, DateCreated only need a get
    - All other fields need a get & set
  + **Constructor:**
    - Only one constructor; it takes in firstname & lastname
    - Sets accountID to first letter of firstname + full lastname (ex. avalberg)
    - Set firstname & last name to their appropriate fields
    - Set dateCreated to today’s date
  + **Methods:**
    - private void CalculateFines()
    - public static void TakeOutBook(int bookid)
    - public static void ReturnBook(int bookid)
    - public static void PayFines(decimal finePayment)
* Book class
  + **Private fields:** 
    - int \_bookID
    - string \_title
    - bool \_checkedOut
    - datetime \_dateCheckedOut
    - decimal \_finePerDay
    - int \_timesCheckedOut