

Design Task: Add classes and modify the existing code so that the library holdings can contain any of the three kinds of items. You should create additional classes to share fields and methods as appropriate.

Rewrite the constructors for Book, Reference, and DVD, and write the constructor for AbsItems and AbsRentable.

Each of Books and DVDs should have a method `lateFee` that takes the number of days overdue a book is and returns the fee for that many days.

- For books, the late fee is 25 cents a day.
- For DVDs, the fee is 5 dollars (total) up to 3 days late, then 20 dollars (total) over 3 days.