

The Library is having a contest. Library members submit their ids so they can participate. The library will take a special list of books and go through the LibraryMember participants and, one by one, checkout the next available book on behalf of the next member in the participant list. If, during the process, a member is found who, in this checkout process, has just checked out his 10th book (that is, he now has exactly 10 CheckoutRecordEntries in his CheckoutRecord), he wins the contest.

The code in prob1.Problem1 checks a list of LibraryMembers for a possible winner of the contest, using a List of books obtained from TestData. However, the code does not compile because the checkout method on LibraryMember is capable of throwing a LibrarySystemException and so this checked exception needs to be handled in the middle of a call to the current stream's filter method.

Use one of the standard techniques mentioned in class to fix this exception-handling problem so that the code compiles properly.