```java
//2018.Final

import java.io.BufferedReader;

public class Main {

  public static void main(String[] args) {
    Library lib = new Library();
    Map<Integer, User> users = readUserData();
    for (User u : users.values()) {
      lib.addUser(u);
    }
    Map<Integer, Book> books = readBookData();
    for (Book b : books.values()) {
      lib.addBook(b);
    }
    readTransactionData(lib);
  }

  public static Map<Integer, User> readUserData() {
    HashMap<Integer, User> users = new HashMap<Integer, User>();

    try (BufferedReader br = new BufferedReader(new FileReader("users.txt"))) {
      String line = br.readLine();
      while (line != null) {
        Scanner s = new Scanner(line);
        int id = s.nextInt();
        String name = s.nextLine().trim();
        User u = new User(id, name);
        users.put(id, u);
        line = br.readLine();
        s.close();
      }
    } catch (FileNotFoundException e) {
      e.printStackTrace();
    } catch (IOException e) {
      e.printStackTrace();
    }
    return users;
  }

  public static Map<Integer, Book> readBookData() {
    HashMap<Integer, Book> books = new HashMap<Integer, Book>();

    try (BufferedReader br = new BufferedReader(new FileReader("books.txt"))) {
      String id = br.readLine();
      while (id != null) {
        Scanner s = new Scanner(id);
        int idI = s.nextInt();
        String title = br.readLine();
        String author = br.readLine();
        Book u = new Book(idI, title, author);
        books.put(idI, u);
        id = br.readLine();
        s.close();
      }
    } catch (FileNotFoundException e) {
      e.printStackTrace();
    } catch (IOException e) {
      e.printStackTrace();
    }
    return books;
```

```
69  }
70
71  public static void readTransactionData(Library lib) {
72
73    try (BufferedReader br = new BufferedReader(new FileReader("transactions.txt"))) {
74      String line = br.readLine();
75      while (line != null) {
76        Scanner s = new Scanner(line);
77        String type = s.next();
78        int user = s.nextInt();
79        int date = s.nextInt();
80        int bookAmt = s.nextInt();
81        lib.processTransaction(type, user, date, bookAmt);
82
83        line = br.readLine();
84        s.close();
85      }
86    } catch (FileNotFoundException e) {
87      e.printStackTrace();
88    } catch (IOException e) {
89      e.printStackTrace();
90    }
91  }
92
93}
94
```