

Library Book Circulation System

Loan.txt (BookNo, StudentNo,
IssueDate, DueDate, ReturnDate, Remark)

```
F001 1A01 20110425 20110525 20110501 R
F002 1A02 20110525 20110625 --/--/-- -
F003 1A03 20110425 20110525 --/--/-- X
```

R=remark(Lost, Overdue, Returned)

Borrowing Books

```
Q: Book#          F001
   Reader#        1A01
A: F001 1A01 20110525 20110625 yyyyymmdd R
```

1

sub-programs:

```
init(); // (system date) today[]="20110526"
bk_borrow(); // 借書
bk_return(); // 還書
deleteRecord(); // 刪除紀錄
modifyRecord(); // 修改(renew續借)
searching(); // 搜尋
bk_overdue(); // 過期
statistics(); // 統計
```

2

```
void bk_borrow(){      // 借書
    fseek(fp,0,2);    // end of file
    do{
        gets(bkid);
        if(strlen(bkid)==0) break;
        gets(readerid);
        fprintf(..., bkid, readerid, today, duedate);
    }while(1);
}

void searching(){     // 搜尋
    do{
        gets(bkid);
        if(strlen(bkid)==0) break;
        gets(readerid);
        gets(frdate);
        gets(todate);
        ...
    }while(1);
}
```