



# Final Report

# Introduction

- ▶ As we all know, improve civilian's reading is very hot these years, especially in China. But it's not easy for us to know how much we actually read and what we have read. So this is my motivation for starting the project Reading Record.
- ▶ The Reading Record can save all of our reading trail just like the record on video websites and it can let us know whether we have done well or not in the past several days.
- ▶ I want a project which can...
- ▶ record the books the user owns and output the book list for user to view them
- ▶ record everyday reading trail
- ▶ statistics the pages read each day and give a brief summary

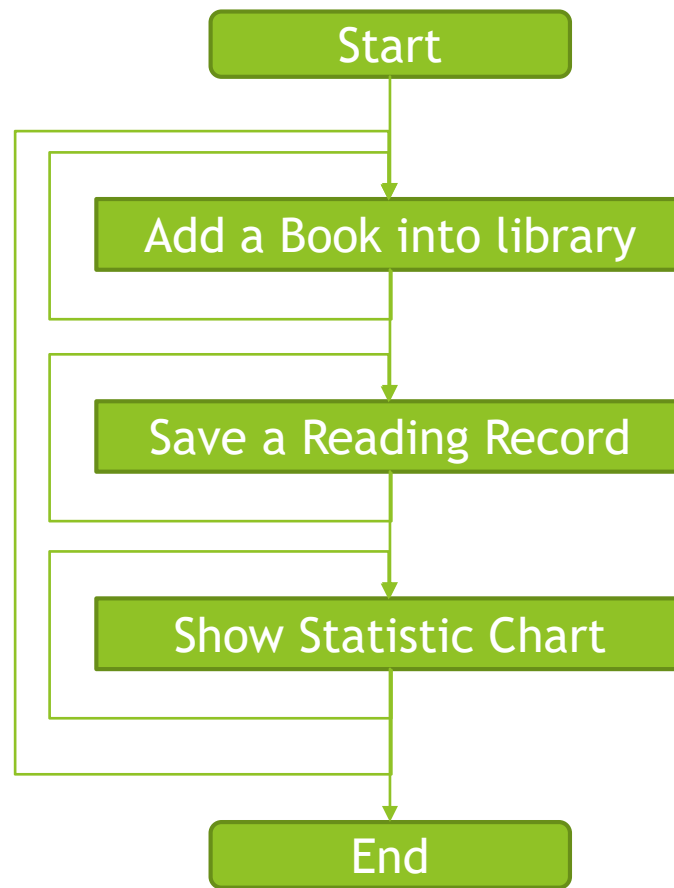
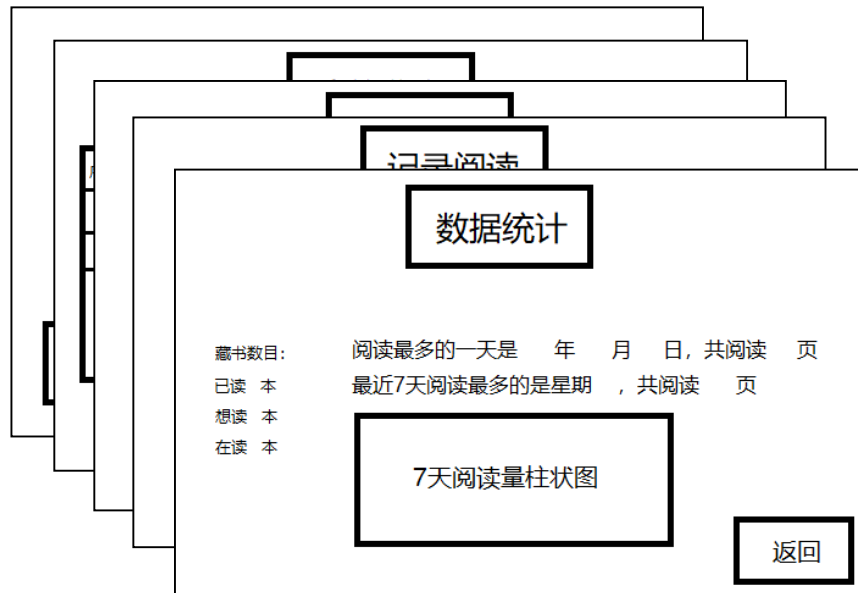
# Analysis

- ▶ *Objectives:*
- ▶ *Record the books the user owns and output the book list for user to view them*
- ▶ *Record everyday reading trail*
- ▶ *Statistics the pages read each day and give a brief summary*
- ▶ Show reading statistics
- ▶ Statistics about books
- ▶ Books records should be saved
- ▶ The records is about book
- ▶ Book basic information should be saved before saving records

## Solution:

- ▶ User can setup a library for himself/herself.
- ▶ User can save reading records at any time.
- ▶ Statistics can be showed in chart base on reading records

# Design



# Implementation

## Main Page



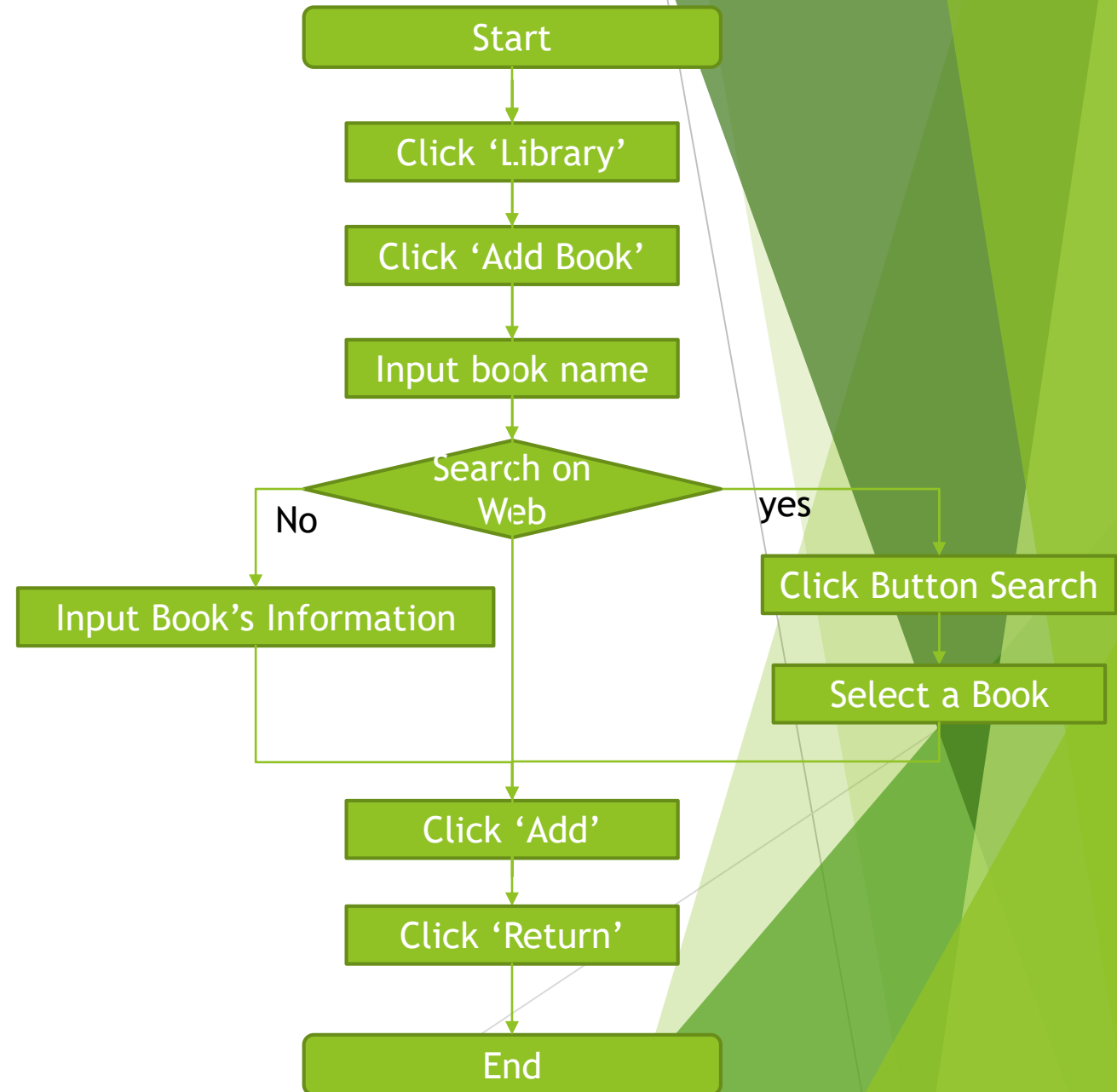
# Implementation

## Add a Book

The top window, titled 'Library', displays a table with the following data:

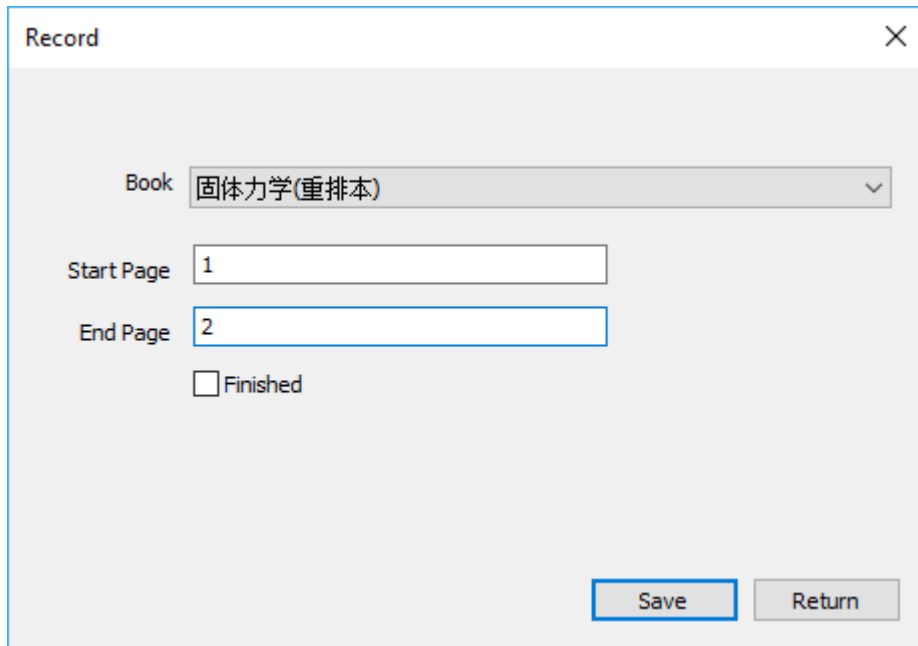
Order	Name	Start Date	Status
1	固体物理学(重排本)		New
2	电动力学		New
3	量子力学		New

At the bottom of the window are two buttons: 'Add Book' and 'Return'.



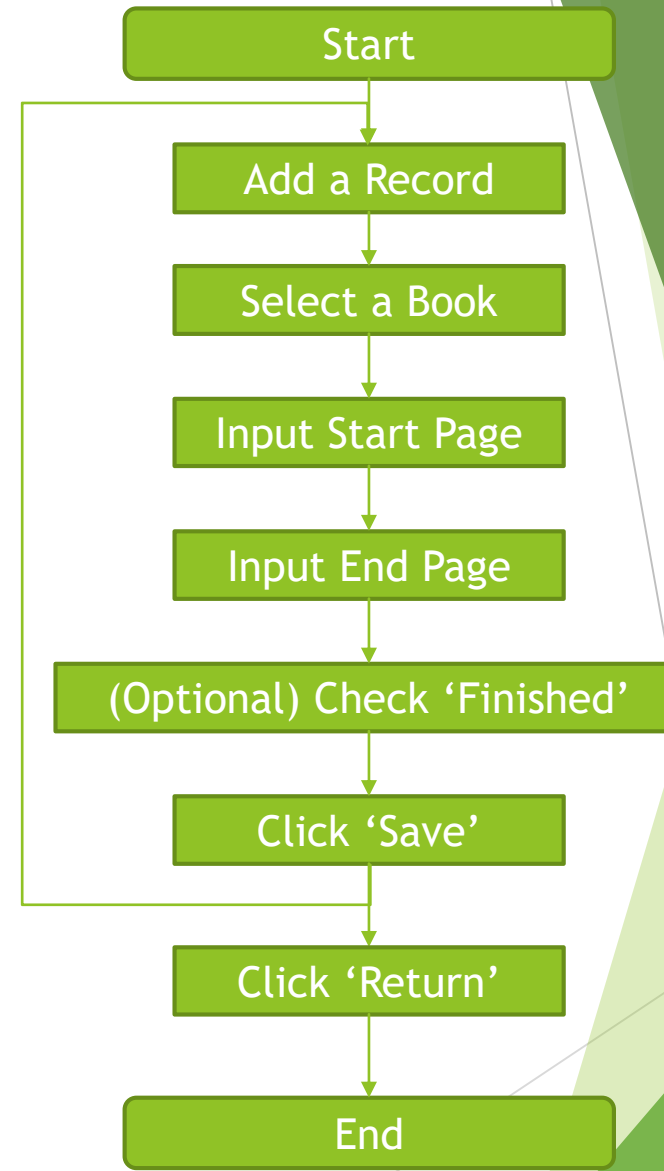
# Implementation

## Add Reading Record



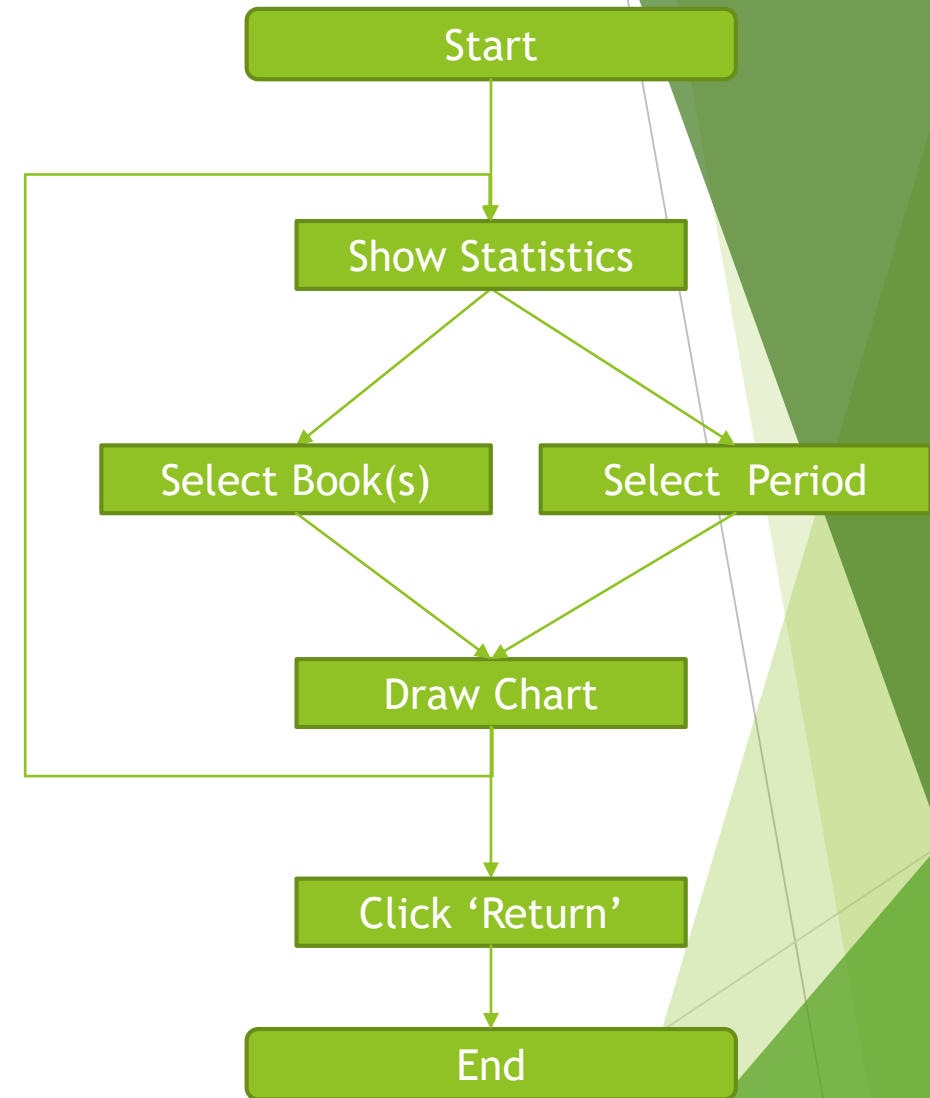
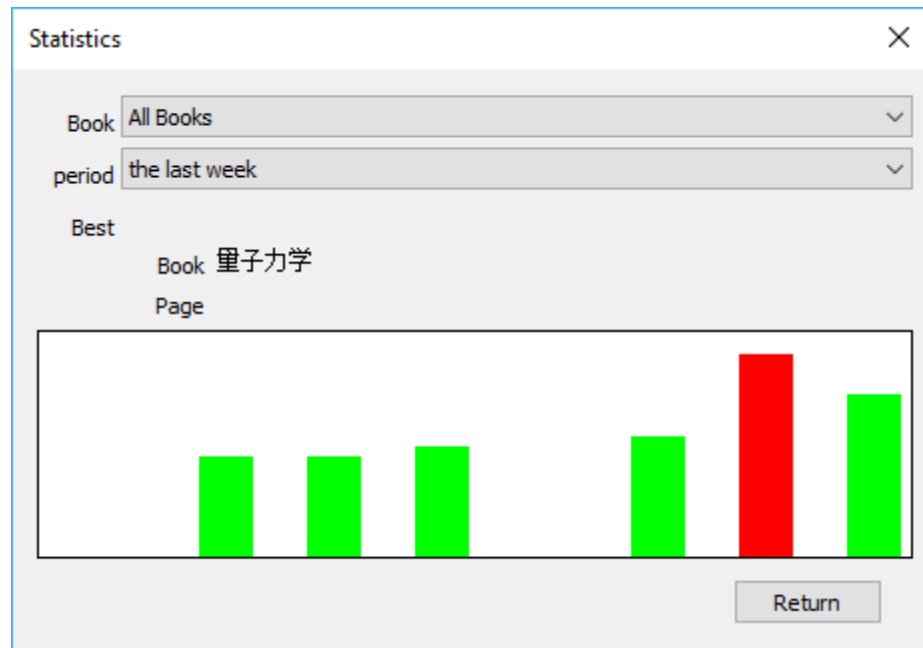
The screenshot shows a 'Record' dialog box with the following fields and controls:

- Book:** A dropdown menu with the selected value '固体力学(重排本)'.
- Start Page:** A text input field containing the value '1'.
- End Page:** A text input field containing the value '2'.
- Finished:** An unchecked checkbox.
- Buttons:** 'Save' and 'Return' buttons at the bottom right.



# Implementation

## Show Statistics





# Implementation

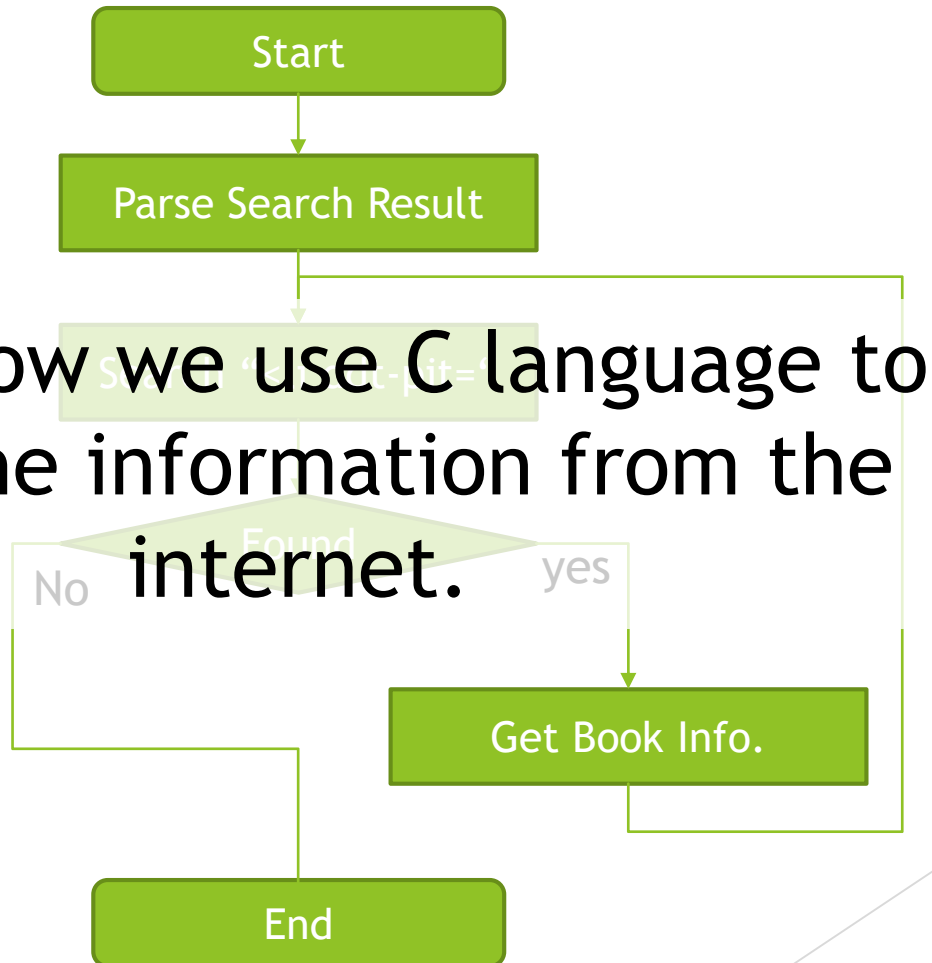
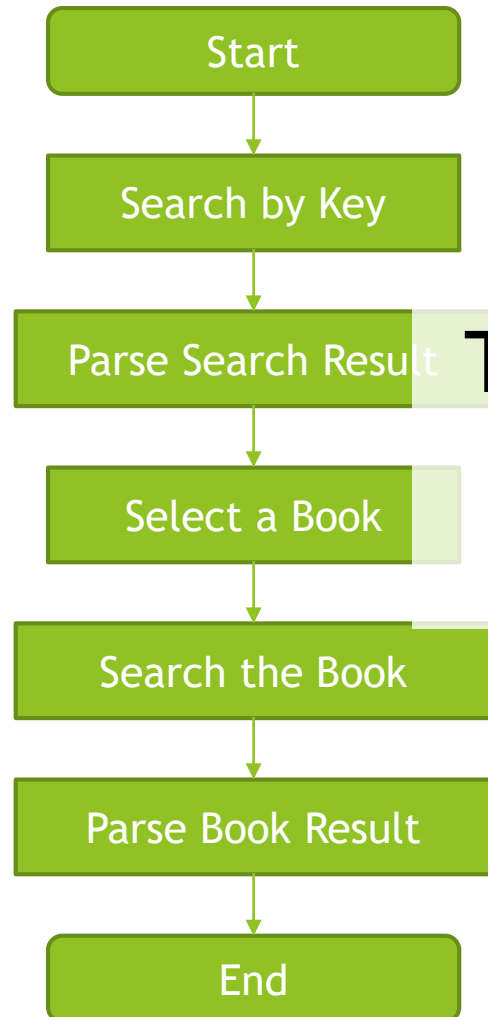
## Search a Book on www.dangdang.com

```
830 </script>
831 </div><div class="spacer"></div><div ddt-area=5402556 ddt-expose="on"><div id='component_5402556'></div></div><div class="spacer"></div></div><div class="spacer"></div><div id="12808" class="con search_wrap clearfix" name=
12815><div id="12810" class="col search_left" name=12817><div class="" ddt-area=94003212839 ddt-expose="on" name=m940032_pid0_t12839><div id='component_940032'></div><div class="con sholist" ddt-area=94003212840 ddt-expose=
"on" name=m940032_pid0_t12840>
832 <div id="search_nature_rg" dd_name="普通商品区域">
833 <ul class="bigimg" id="component_0_0_6612">
834 <li ddt-pit="1" class="line1" id="p22927408">
<a title=" 物理学基础" ddclick="act=normalResult_picture&pos=22927408_0_2_q" class="pic" name="itemlist-picture" dd_name="单品图片" href="http://product.dangdang.com/22927408.html" target="_blank" ><img
src='http://img3m8.ddimg.cn/97/25/22927408-1_b_1.jpg' alt=' 物理学基础' /></a><p class="name" name="title" ><a title=" 物理学基础" href="http://product.dangdang.com/22927408.html" ddclick=
"act=normalResult_title&pos=22927408_0_2_q" name="itemlist-title" dd_name="单品标题" target="_blank" > <font class="skcolor_ljg">物理学</font>基础</a></p><p class="detail" >
《物理学基础》(原书第6版)适合高等院校学生使用,也是广大教师(包括中学教材)、物理科研人员和物理爱好者十分有价值的参考书。大卫·哈里德(David Halliday),罗伯特·瑞斯尼克(Robert Resnick)和杰尔·沃克(Jearl
Walker)的《物理学基础》长期以来一直是一部在国际物理界具有很大影响和相当高权威性、并受到广泛好评的经典物理教材,同时它又以独特的易学性和生动性以及与当代****的紧密联系,成为世界教材市场上经久不衰、受欢迎和畅销的大
学物理教材。</p><p class="price" > <span class="search_now_price">&yen;148.40</span><a class="search_discount" style="text-decoration:none;">定价:</a><span class="search_pre_price">&yen;198.00</span><span
class="search_discount">&nbsp;(7.5折) </span></p><div class="lable_label"><span class="new_label" y=""></span></div><p class="search_star_line" ><span class="search_star_black"><span style="width: 90%;"
></span></span></p><a href="http://product.dangdang.com/22927408.html?point=comment_point" target="_blank" name="itemlist-review" dd_name="单品评论" class="search_comment_num" ddclick=
"act=click_review_count&pos=22927408_0_2_q">1016条评论</a></p><span class="tag_box"></span><p class="search_book_author"><span>(美)哈里德 等著,张三慧 等译</span><a href="http://search.dangdang.com/?key2=
哈里德&medium=01&category_path=01.00.00.00.00.00" name='itemlist-author' dd_name='单品作者' title='(美)哈里德 等著,张三慧 等译'>哈里德</a> 等著,<a href="http://search.dangdang.com/?key2=
张三慧&medium=01&category_path=01.00.00.00.00.00" name='itemlist-author' dd_name='单品作者' title='(美)哈里德 等著,张三慧 等译'>张三慧</a> 等译</span><span > /2013-01-01</span><span> </a href=
http://search.dangdang.com/?key=&key3=&BBF6A8D0F5B3F6B0E6C9E7&medium=01&category_path=01.00.00.00.00.00" name='P_cbs' dd_name='单品出版社' title='机械工业出版社'>机械工业出版社
</a></span><div class="shop_button"><p class="bottom_p"><a class="search_btn_cart" name='Buy' dd_name='加入购物车' href='javascript:AddToShoppingCart(22927408)' ddclick='act=normalResult_addToCart&pos=22927408_0_2_q'>加入购物车</a></p><div class="act=normalResult_addToCart&pos=22927408_0_2_q">收藏</a></p></div>
'act=normalResult_favor&pos=22927408_0_2_q">收藏</a></p></div>
835 <li ddt-pit="2" class="line2" id="p25250520">
836 <a title=" 物理学大辞典" ddclick="act=normalResult_picture&pos=25250520_1_1_q" class="pic" name="itemlist-picture" dd_name="单品图片" href="http://product.dangdang.com/25250520.html" target="_blank" ><img
data-original='http://img3m5.ddimg.cn/60/0/25250520-1_b_3.jpg' src='images/model/guan/url none.png' alt=' 魔鬼物理学1-3(套装3册)' /></a><p class="name" name="title" ><a title=" 物理学大辞典" href=
http://product.dangdang.com/25250520.html" ddclick="act=normalResult_title&pos=25250520_1_1_q" name="itemlist-title" dd_name="单品标题" target="_blank" > <font class="skcolor_ljg">物理学</font>大辞典
</a></p><p class="detail" ></p><p class="price" > <span class="search_now_price">&yen;235.30</span><a class="search_discount" style="text-decoration:none;">定价:</a><span class="search_pre_price">&yen;298.00
</span><span class="search_discount">&nbsp;(7.9折) </span></p><div class="lable_label"><span class="new_label" y=""></span></div><p class="search_star_line" ><span class="search_star_black"><span style=
"width: 100%;"></span></span></p><a href="http://product.dangdang.com/25250520.html?point=comment_point" target="_blank" name="itemlist-review" dd_name="单品评论" class="search_comment_num" ddclick=
"act=click_review_count&pos=25250520_1_1_q">2条评论</a></p><span class="tag_box"></span><p class="search_book_author"><span>都有为 著</span><a href="http://search.dangdang.com/?key2=
都有为&medium=01&category_path=01.00.00.00.00.00" name='itemlist-author' dd_name='单品作者' title='都有为'>都有为</a></span><span > /2018-05-01</span><span> </a href=
http://search.dangdang.com/?key=&key3=&BFFC6BDA7B53F6B0E6C9E7&medium=01&category_path=01.00.00.00.00.00" name='P_cbs' dd_name='单品出版社' title='科学出版社'>科学出版社</a></span><div class=
"shop_button"><p class="bottom_p"><a class="search_btn_cart" name='Buy' dd_name='加入购物车' href='javascript:AddToShoppingCart(25250520)' ddclick='act=normalResult_addToCart&pos=25250520_1_1_q'>加入购物车
</a></p><div class="act=normalResult_addToCart&pos=25250520_1_1_q">收藏</a></p></div>
</li>
837 <li ddt-pit="3" class="line3" id="p25238625">
838 <a title=" 魔鬼物理学1-3(套装3册)" ddclick="act=normalResult_picture&pos=25238625_2_1_q" class="pic" name="itemlist-picture" dd_name="单品图片" href="http://product.dangdang.com/25238625.html" target=
_blank" ><img data-original='http://img3m5.ddimg.cn/60/0/25238625-1_b_3.jpg' src='images/model/guan/url none.png' alt=' 魔鬼物理学1-3(套装3册)' /></a><p class="name" name="title" ><a title="
魔鬼物理学1-3(套装3册)" href=
"http://product.dangdang.com/25238625.html" ddclick="act=normalResult_title&pos=25238625_2_1_q" name="itemlist-title" dd_name="单品标题" target="_blank" > 魔鬼<font class="skcolor_ljg">物理学</font>
1-3(套装3册)一套书为物理正名,呈现一个有趣、好玩的物理世界。没有复杂的公式和烦琐的推理,分分钟变学霸!《柯克斯书评》《书单》《华尔街日报》《出版人周刊》好评推荐! </a></p><p class="detail" >
从早晨的阳光射进你的房间,到结束繁忙的一天关灯入睡,恍然间你会发现你就置身于一个奇妙的物理世界中。生活中常见的电子设备都可以成为我们学习物理知识的教具,就这样,你的生活与物理学紧紧联系在一起。就连我们认为古怪并
且难以理解的量子力学,都改变着世界的方方面面。X射线光谱技术,促进了晶体结构的研究,从而解码人体基因组;笔记本电脑,手机的出现要得益于电子的自旋。量子力学解答了科幻世界的所有疑惑,为我们开启新世界的大门。
同时,物理也不该仅仅是脱离实际的冷冰冰的公式,从漫画英雄口中讲出的物理学知识,将颠覆你对物理的所有认知。在这里,物理将成为英雄施展超能力的魔法棒,一定让科幻爱好者、漫画迷们大呼过瘾。</p><p class="price" > <span
class="search_now_price">&yen;123.00</span><a class="search_discount" style="text-decoration:none;">定价:</a><span class="search_pre_price">&yen;164.00</span><span class="search_discount">&nbsp;(7.5折)
</span></p><a href="http://product.dangdang.com/1901070301.html" ddclick="act=normalResult_EBookPrice&pos=1901070301_2" act=ddclicktemplate&pos=25238625_2_1_q" class="search_e_price" dd_name="单品电子书" target=
_blank"><span>电子书:</span></a></p><div class="lable_label"><span class="new_label" y=""></span></div><p class="search_star_line" ><span class="search_star_black"><span style="width:
100%;"></span></span></p><a href="http://product.dangdang.com/25238625.html?point=comment_point" target="_blank" name="itemlist-review" dd_name="单品评论" class="search_comment_num" ddclick=
"act=click_review_count&pos=25238625_2_1_q">2条评论</a></p><span class="tag_box"></span><p class="search_book_author"><span>(美)詹姆斯·卡卡里奥斯</span><a href=
'http://search.dangdang.com/?key2=詹姆斯·卡卡里奥斯&medium=01&category_path=01.00.00.00.00.00" name='itemlist-author' dd_name='单品作者' title='(美)詹姆斯·卡卡里奥斯'>詹姆斯·卡卡里奥斯</a></span><span >
/2018-04-01</span><span> </a href='http://search.dangdang.com/?key=&key3=&D6D0D0C5B3F6B0E6C9E7&medium=01&category_path=01.00.00.00.00.00" name='P_cbs' dd_name='单品出版社' title='中信出版社'>
中信出版社</a></span><div class="shop_button"><p class="bottom_p"><a class="search_btn_cart" name='Buy' dd_name='加入购物车' href='javascript:AddToShoppingCart(25238625)' ddclick=
```

# Implementation

## Search a Book on [www.dangdang.com](http://www.dangdang.com)

(HttpClient=>WIN32API)

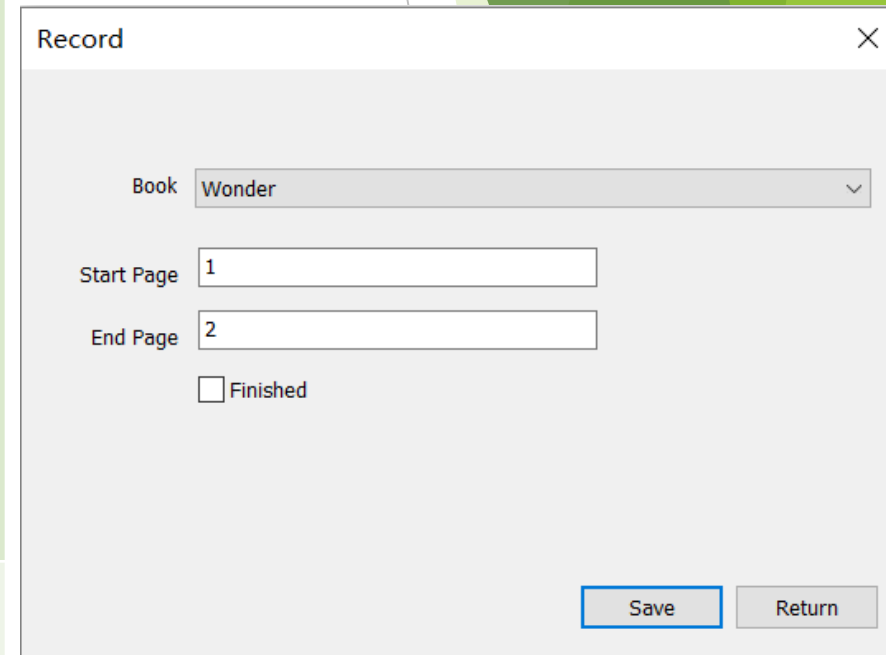


This is how we use C language to grasp the information from the internet.

# Testing

(The ID number of the book *Wonder* is 2)

Input	Expect	Output
Start Page:1 End Page:2	Write the following words into 'book_02.txt' [Record] [Date] 2018-06-04 [StartPage] 1 [EndPage] 2 Change the number bellow '[Status]' in 'book_02.txt' into '1'	
negative number or decimal	Warning 'Enter an integer between 0 and 100000'	
Check 'Finished'	Change the number bellow '[Status]' in 'book_02.txt' into '2'	



A screenshot of a 'Record' dialog box. It has a title bar with a close button (X). The dialog contains the following fields and controls:

- 'Book': A dropdown menu with 'Wonder' selected.
- 'Start Page': A text input field containing the number '1'.
- 'End Page': A text input field containing the number '2'.
- 'Finished': A checkbox that is currently unchecked.
- At the bottom right, there are two buttons: 'Save' and 'Return'.

# Testing

Input	Expect	Output
'wonder' behind Name and click 'Search'	A list with 60 books' information from www.dangdang.com.	
'dfhruigre'(something cannot be found on line)	Warning 'Can't find the book. Please try again or input the information by yourself.'	
Tick 'Add'	Save the information of the book in 'book_XX.txt'(XX is the ID number of this book) in the form of [Id] XX [Name] XXXXXX [Author] XXX [Publisher] XXXXXX [Publish Date] XXXX [Price] XX.XX [Status] X [Abstract] XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX	

Add Book

Name

wonder

Search

Author

Publisher

Publish Date

Price

0

Abstract

Status

New Book

Add

Return

# Testing

Input	Expect	Output
Click 'Statistics' on main page	Draw chart below (Use red color to mark the day/period with most pages read and use green for other days/periods) Output the name of the book with most pages being read	
Change the option of 'Book' or 'Period'	Redraw the chart	



# Result and Conclusion

## Real Result

- ▶ Add book into library
  - ▶ Search book's information from web site to save input time
  - ▶ Book's initial status can be set
- ▶ Save reading record
  - ▶ Save records into file
  - ▶ Give reading record page number base on last record
  - ▶ Can change reading status manually
- ▶ Show statistics
  - ▶ Show all books' reading record
  - ▶ Show one single book's reading record
  - ▶ Show chart for different period
  - ▶ Show when reading maximum page, which book for all books' statistic

## Finial Result:

**Meet initial goal**

Thanks