Assignment : #4 Book Cataloging System

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Date: 06/09/2017

Course: CSC&143

Instructor: Ravi Gandham

File Name: Driver.java

Program Description: Write a program to manage a Book Catalog. The catalog would contain a collection of books, with following fields of information: book code (unique for each book; must be valid – see ISBN validation rules in this assignment for more info), author's last name, author's first name, book title, year of publication and price. The book catalog should use a file for storing books.

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1/. Coding:(in the java files)

2/. Comprehensive sample runs:

3/. Summary of my work:

4/. Console output:

2/. Comprehensive sample runs:

The main menu have four option to go inside: Enter '1' to add book, enter '2' to find book, enter '3' to delete book, and the last one enter 'Close' to exit the program. When user goes inside, they can go back to main menu and go inside again until user wants to exit. It will keep working three times, and it asks user want to go back to main menu or not. If there is not a file, when user input book to the catalog, user save change the program will make a new file. (There is something wrong with the data of the booklist.txt or The booklist.txt is not found!)

The program have the main menu like below:

Please, choose a number to do:

1. Add a new book to the catalog.

2. Find a book from catalog.

3. Delete an existing book.

To close the program enter 'Close'!

- **1. Add a new book to the catalog:**

This option allows user to add a new book to the catalog and later will save to the file if user wants. It checks all the valid rules ISBN, name, title, year of publication, and price, which will send to the constructor to call the methods in Book.java to validate them. It will go to main menu if saving successful, and it will keep working three times, and it asks user want to go back to main menu or not if saving is not successful. (Please, enter 'Exit' to go to the main menu!)

The menu like below:

To close the program enter 'Close'!

1

Please, enter the book code with correct the ISBN rules:

0821211315

Please, enter the author's first name with (can't start with numbers):

Mueller

Please, enter the author's last name (can't start with numbers):

Sarjoughian

Please, enter the book title:

Book Cataloging System

Please, enter the year of publication (less than 2013):

2009

Please, enter the book price (no negative or zero):

9

After saving the program will reload the catalog again with new book in list with number of raws data (The Catalog Book below is: 22 raw(s)!) and show a successful message like below:

(The new book has been saved successfully to the catalog!)

If the program can't not save the new book, it just shows the errors. (Duplicated Error! (or) Price is not negative or zero! **The new book has been saved unsuccessfully!)**

- **2. Find a book from catalog:**

This option has three options for user to choose (A) finding book with ISBN, (B) finding book with First name, and (C) finding book with Last name. Finding book will go to main menu if saving successful, and it will keep working three times, and it asks user want to go back to main menu or not.

This is example of finding book below:

Please, enter letter 'A' to find the a book by ISBN in catalog!

Please, enter letter 'B' to find the a book by First Name in catalog!

Please, enter letter 'C' to find the a book by Last Name in catalog!

a

Please, enter the correct rules of book ISBN!

0821211315

0821211315   Mueller   Sarjoughian   Book Cataloging System   2009   9

If it can't find the book, it will show the message like below:

Please, enter the correct rules of book ISBN!

921

Sorry, we can not find the book!

- **3. Delete an existing book.**

This option allows user to find a book from catalog and delete it by ISBN because ISBN is the unique key in the catalog. When it can't not delete the book from catalog, it shows the message (Deleting unsuccessful!). When it deleted the book from catalog, reload the update catalog, and it will show the message (The book with 0-387-95144-X was deleted!). It will keep working three times, and it asks user want to go back to main menu or not.

It would look like below:

Please, enter the ISBN of book to delete!

Please, enter the correct rules of book ISBN!

k

Deleting unsuccessful!

The ISBN was not matched!

When it deletes successful will show:

Please, enter the ISBN of book to delete!

Please, enter the correct rules of book ISBN!

0-387-95065-6

The Catalog Book below is: 20 raw(s)!

……

The book with 0-387-95065-6 was deleted!

Please, enter 'Yes' to continue or 'Exit' to exit deleting!

- **4. To close the program:**

When user wants to close the program enter 'Close' from the main menu, it will ask user want to save the book catalog or not. If user enter 'Yes', it will replace to the file with the data from the book catalog and taking into account any of the above changes, for future reuse with the file (logCatalogchange.txt). It also shows on the console that what the user changed with the book catalog from the file (booklist.txt). If user enter 'No', then nothing will change to the file and no saving to the (logCatalogchange.txt).

It will look like below:

Please, choose a number to do:

1. Add a new book to the catalog.

2. Find a book from catalog.

3. Delete an existing book.

To close the program enter 'Close'!

close

Would you like to save the catalog to file! Yes or No
yes
The catalog was Saved!
Have a wonderful day!
The changed log below was saved to 'src/logCatalogchange.txt'
Duplicate deleted from catalog with ISBN-> 0-387-95192-X   Coutinho   Kumari Dynamic Simulations of Multibody Systems   2001   52.50
Duplicate deleted from catalog with ISBN-> 0-387-95144-X   Hummel Craig   Electronic Properties of Materials   2001   52.50
A book was deleted from the catalog with ISBN-> 0-387-95065-6   Sarjoughian   Cellier   Discrete Event Modeling and Simulation Technologies   2009   99.90
New book was saved to the catalog with ISBN-> 0-387-95065-6   Sarjoughian   Cellier   Discrete Event Modeling and Simulation Technologies   2009   19.99

3/. Summary of my work:

   This is a tough assignment that I have never worked, but I'm happy with my program that it work perfectly. I had no idea to do at first, but I can imagine what I should do after reading it again and again. I talked with tutors and friend about the assignment to sharp my idea. I learned how to use linked list. ISBN validation is the hardest part that I have to work more than two days to finish it with testing and fixing. The program has to load book catalog from the files check all valid before adding to the book catalog with no duplicate data.

   Searching figure took me more one day to finish because I have to adjust it to work well with the program that I can reuse it many times. Deleting option is also very hard too. It could not delete correctly with the ISBN, which I enter because Linked List can not go back, so I have to use index to call "noteAtIndex(int index)" to return one node, so I can remove the book that I want to. In addition, I have another error that I could not delete the single book from catalog, but I have fix it. My idea that my program will stop reading the linked list when it deleted a book. This will help the program work very fast when linked list is a large dataset. I had a hard decision that did I have to use the already linked list data type (Book) or make a new one with data type (String). My decision is that I had to use another linked list with different data type (String) to save all changes from users after they save to file. It make me easier to modify the log changes.

   After I have all the method necessary to manage the data from file to book catalog, searching, deleting, adding. I was stuck with the console design for user. I thought that it was very easy, but not at all. I thought that I had to use a lot of while loops, but I only use two while loop for all. The program work very fast, and I'm happy. I had a hard problem with user manual that when I got user input from console. It did not stop for me to input data. It took me half of day to go over. I worked with it more than two days to have a perfect one with my idea that users can work or exit with my program whenever they like.

My program works very well right now, but I believe that there are still have some problems that I don't know. The next thing I think I will work more with my program to figure out how to code shorter and faster to make the program work accurately.

4/. Console output:

This book is duplicated ISBN: 0-387-95144-X from Hummel was found!
This book is duplicated ISBN: 0-387-95144-X from Hummel was found!
Deleted duplicate in the catalog is: 2
The Catalog Book below is: 3 row(s)!
3-540-41341-3 Meyer Baese Digital Signal Processing with Field Programmable Gate Arrays 2001 52.50
0-387-95065-6 Sarjoughian Cellier Discrete Event Modeling and Simulation Technologies 2001 52.50
3-540-41817-2 Gusev Rempel Disorder and Order in Strongly Nonstoichiometric Compounds 2001 70.00
Please, choose a number to do:
1. Add a new book to the catalog.
2. Find a book from catalog.
3. Delete an existing book.
To close the program enter 'Close'!
3
Please, enter the ISBN of book to delete!
Please, enter the correct rules of book ISBN!
3-540-41341-3
The Catalog Book below is: 2 row(s)!
0-387-95065-6 Sarjoughian Cellier Discrete Event Modeling and Simulation Technologies 2001 52.50
3-540-41817-2 Gusev Rempel Disorder and Order in Strongly Nonstoichiometric Compounds 2001 70.00
The book with 3-540-41341-3 was deleted!
Please, enter 'Yes' to continue or 'Exit' to exit deleting!
0-387-95065-6
Please, enter the ISBN of book to delete!
Please, enter the correct rules of book ISBN!
0-387-95065-6
The Catalog Book below is: 1 row(s)!
3-540-41817-2 Gusev Rempel Disorder and Order in Strongly Nonstoichiometric Compounds 2001 70.00

The book with 0-387-95065-6 was deleted!

Please, enter 'Yes' to continue or 'Exit' to exit deleting!

3-540-41817-2

Please, enter the ISBN of book to delete!

Please, enter the correct rules of book ISBN!

3-540-41817-2

The Catalog Book below is: 0 row(s)!

The book with 3-540-41817-2 was deleted!

Please, enter 'Yes' to continue or 'Exit' to exit deleting!

3-540-41817-2

Please, enter the ISBN of book to delete!

Please, enter the correct rules of book ISBN!

3-540-41817-2

Deleting not successful!

The ISBN was not matched!

Please, enter 'Yes' to continue or 'Exit' to go to the main menu!

exit

Please, choose a number to do:

1. Add a new book to the catalog.

2. Find a book from catalog.

3. Delete an existing book.

To close the program enter 'Close'!

1

Please, enter the book code with correct the ISBN rules:

3-540-41817-2

Please, enter the author's last name with (can't start with numbers):

Gusev

Please, enter the author's first name (can't start with numbers):

Rempel

Please, enter the book title:

Disorder and Order in Strongly Nonstoichiometric Compounds 99

Please, enter the year of publication (less than 2013):

999

Please, enter the book price (no negative or zero):

9.99

The Catalog Book below is: 0 row(s)!

3-540-41817-2 Gusev Rempel Disorder and Order in Strongly Nonstoichiometric Compounds 99 999 9.99

The new book has been saved to the catalog!

Please, choose a number to do:

1. Add a new book to the catalog.

2. Find a book from catalog.

3. Delete an existing book.

To close the program enter 'Close'!

1

Please, enter the book code with correct the ISBN rules:

0-201-88337-6

Please, enter the author's last name with (can't start with numbers):

1name

Last name can not start with number and be empty!

Please, enter the book code with correct the ISBN rules:

0-201-88337-6

Please, enter the author's last name with (can't start with numbers):

Sarjoughian

Please, enter the author's first name (can't start with numbers):

Disorder

Please, enter the book title:

99 Disorder and Order in Strongly Nonstoichiometric Compounds

Please, enter the year of publication (less than 2013):

1990

Please, enter the book price (no negative or zero):

99.99

The Catalog Book below is: 1 row(s)!

3-540-41817-2 Gusev Rempel Disorder and Order in Strongly Nonstoichiometric Compounds 99 999 9.99

0-201-88337-6 Sarjoughian Disorder 99 Disorder and Order in Strongly Nonstoichiometric Compounds 1990 99.99

The new book has been saved to the catalog!

Please, choose a number to do:

1. Add a new book to the catalog.

2. Find a book from catalog.

3. Delete an existing book.

To close the program enter 'Close'!

1

Please, enter the book code with correct the ISBN rules:

0-13-117334-0

Please, enter the author's last name with (can't start with numbers):

Catalog 99

Please, enter the author's first name (can't start with numbers):

Disorder 99

Please, enter the book title:

strongly Nonstoichiometric 99

Please, enter the year of publication (less than 2013):

2012

Please, enter the book price (no negative or zero):

99.66

The Catalog Book below is: 2 row(s)!

3-540-41817-2 Gusev Rempel Disorder and Order in Strongly Nonstoichiometric Compounds 99 999 9.99

0-201-88337-6 Sarjoughian Disorder 99 Disorder and Order in Strongly Nonstoichiometric Compounds 1990 99.99

0-13-117334-0 Catalog 99 Disorder 99 strongly Nonstoichiometric 99 2012 99.66

The new book has been saved to the catalog!

Please, choose a number to do:

1. Add a new book to the catalog.

2. Find a book from catalog.

3. Delete an existing book.

To close the program enter 'Close'!

1

Please, enter the book code with correct the ISBN rules:

0821211315

Please, enter the author's last name with (can't start with numbers):

99Gusev

Last name can not start with number and be empty!

Please, enter the book code with correct the ISBN rules:

0821211315

Please, enter the author's last name with (can't start with numbers):

(((Gusev

Please, enter the author's first name (can't start with numbers):

Disorder 99

Please, enter the book title:

strongly Nonstoichiometric 99 2012

Please, enter the year of publication (less than 2013):

2019

Year should be digits and not be greater than 2013!
Please, enter the book code with correct the ISBN rules:
0821211315
Please, enter the author's last name with (can't start with numbers):
99Gusev
Last name can not start with number and be empty!
Please, enter the book code with correct the ISBN rules:
0821211315
Please, enter the author's last name with (can't start with numbers):
99Gusev
Last name can not start with number and be empty!

Please, enter 'Yes' to continue or 'Exit' to go to the main menu!
0821211315
Please, enter the book code with correct the ISBN rules:
Gusev
The book is not correct! It should follow the ISBN validation rules.
Please, enter the book code with correct the ISBN rules:
0821211315
Please, enter the author's last name with (can't start with numbers):
Gusev
Please, enter the author's first name (can't start with numbers):
9Gusev
First name can not start with number and be empty!
Please, enter the book code with correct the ISBN rules:
0821211315
Please, enter the author's last name with (can't start with numbers):
Gusev
Please, enter the author's first name (can't start with numbers):
strongly
Please, enter the book title:
Modeling and Simulation Technologies
Please, enter the year of publication (less than 2013):
2009
Please, enter the book price (no negative or zero):
999.9
The Catalog Book below is: 3 row(s)!
3-540-41817-2 Gusev Rempel Disorder and Order in Strongly Nonstoichiometric Compounds 99
999 9.99

0-201-88337-6 Sarjoughian Disorder 99 Disorder and Order in Strongly Nonstoichiometric Compounds 1990 99.99

0-13-117334-0 Catalog 99 Disorder 99 strongly Nonstoichiometric 99 2012 99.66

0821211315 Gusev strongly Modeling and Simulation Technologies 2009 999.9

The new book has been saved to the catalog!

This book is duplicated ISBN: 0-387-95144-X from Hummel was found!

This book is duplicated ISBN: 0-387-95144-X from Hummel was found!

Deleted duplicate in the catalog is: 2

The Catalog Book below is: 21 raw(s)!

0-387-95206-3 Misra Pady A Discipline of Multiprogramming 2001 45.50

1-85233-384-7 Tao Lewis Adaptive Control of Nonsmooth Dynamic Systems 2001 65.00

3-540-67713-5 Kloss Ray Advertising Worldwide 2001 35.00

0-387-94937-2 Campbell Norman An Introduction to Environmental Biophysics 1998 31.50

1-85233-219-0 Jaulin Kieffer Applied Interval Analysis 2001 55.00

3-540-65367-8 Vazirani Gordy Approximation Algorithms 2001 24.50

3-540-66334-7 Faber Finn Biotransformations in Organic Chemistry 2000 23.00

3-540-66574-9 Kapitaniak Kelly Chaos for Engineers 2000 23.00

3-540-65620-0 Berg Clive Computational Geometry 2000 23.00

3-540-42074-6 Ferziger Peric Computational Methods for Fluid Dynamics 2002 35.00

3-540-67481-0 Mueller Paul Computer Architecture 2000 35.00

3-540-42243-9 Vob Daduna Computer-Aided Scheduling of Public Transport 2001 45.00

3-540-41820-2 Leonhard Leonis Control of Electrical Drives 2001 42.00

3-540-41613-7 Omicini Mirche Coordination of Internet Agents 2001 32.00

3-540-41377-4 Muther Morgan Customer Relationship Management 2002 28.00

3-540-41247-6 Grellmann Seidler Deformation and Fracture Behaviour of Polymers 2001 70.00

1-85233-397-9 Vlietstra Rony Dictionary of Acronyms and Technical Abbreviations 2001 49.50

3-540-41341-3 Meyer Baese Digital Signal Processing with Field Programmable Gate Arrays 2001 52.50

0-387-95065-6 Sarjoughian Cellier Discrete Event Modeling and Simulation Technologies 2001 52.50

3-540-41817-2 Gusev Rempel Disorder and Order in Strongly Nonstoichiometric Compounds 2001 70.00

0-387-95192-X Coutinho Kumari Dynamic Simulations of Multibody Systems 2001 52.50

0-387-95144-X Hummel Craig Electronic Properties of Materials 2001 52.50

Please, choose a number to do:

1. Add a new book to the catalog.

2. Find a book from catalog.

3. Delete an existing book.

To close the program enter 'Close'!

3

Please, enter the ISBN of book to delete!

Please, enter the correct rules of book ISBN!

e

Deleting unsuccessful!

The ISBN was not matched!

Please, enter the ISBN of book to delete!

Please, enter the correct rules of book ISBN!

3-540-42074-6

The Catalog Book below is: 20 raw(s)!

0-387-95206-3 Misra Pady A Discipline of Multiprogramming 2001 45.50

1-85233-384-7 Tao Lewis Adaptive Control of Nonsmooth Dynamic Systems 2001 65.00

3-540-67713-5 Kloss Ray Advertising Worldwide 2001 35.00

0-387-94937-2 Campbell Norman An Introduction to Environmental Biophysics 1998 31.50

1-85233-219-0 Jaulin Kieffer Applied Interval Analysis 2001 55.00

3-540-65367-8 Vazirani Gordy Approximation Algorithms 2001 24.50

3-540-66334-7 Faber Finn Biotransformations in Organic Chemistry 2000 23.00

3-540-66574-9 Kapitaniak Kelly Chaos for Engineers 2000 23.00

3-540-65620-0 Berg Clive Computational Geometry 2000 23.00

3-540-67481-0 Mueller Paul Computer Architecture 2000 35.00

3-540-42243-9 Vob Daduna Computer-Aided Scheduling of Public Transport 2001 45.00

3-540-41820-2 Leonhard Leonis Control of Electrical Drives 2001 42.00

3-540-41613-7 Omicini Mirche Coordination of Internet Agents 2001 32.00

3-540-41377-4 Muther Morgan Customer Relationship Management 2002 28.00

3-540-41247-6 Grellmann Seidler Deformation and Fracture Behaviour of Polymers 2001 70.00

1-85233-397-9 Vlietstra Rony Dictionary of Acronyms and Technical Abbreviations 2001 49.50

3-540-41341-3 Meyer Baese Digital Signal Processing with Field Programmable Gate Arrays 2001 52.50

0-387-95065-6 Sarjoughian Cellier Discrete Event Modeling and Simulation Technologies 2001 52.50

3-540-41817-2 Gusev Rempel Disorder and Order in Strongly Nonstoichiometric Compounds 2001 70.00

0-387-95192-X Coutinho Kumari Dynamic Simulations of Multibody Systems 2001 52.50

0-387-95144-X Hummel Craig Electronic Properties of Materials 2001 52.50

The book with 3-540-42074-6 was deleted!

Please, enter 'Yes' to continue or 'Exit' to exit deleting!

0-387-95206-3

Please, enter the ISBN of book to delete!

Please, enter the correct rules of book ISBN!

0-387-95144-X

The Catalog Book below is: 19 raw(s)!

0-387-95206-3 Misra Pady A Discipline of Multiprogramming 2001 45.50

1-85233-384-7 Tao Lewis Adaptive Control of Nonsmooth Dynamic Systems 2001 65.00

3-540-67713-5 Kloss Ray Advertising Worldwide 2001 35.00

0-387-94937-2 Campbell Norman An Introduction to Environmental Biophysics 1998 31.50

1-85233-219-0 Jaulin Kieffer Applied Interval Analysis 2001 55.00

3-540-65367-8 Vazirani Gordy Approximation Algorithms 2001 24.50

3-540-66334-7 Faber Finn Biotransformations in Organic Chemistry 2000 23.00

3-540-66574-9 Kapitaniak Kelly Chaos for Engineers 2000 23.00

3-540-65620-0 Berg Clive Computational Geometry 2000 23.00

3-540-67481-0 Mueller Paul Computer Architecture 2000 35.00

3-540-42243-9 Vob Daduna Computer-Aided Scheduling of Public Transport 2001 45.00

3-540-41820-2 Leonhard Leonis Control of Electrical Drives 2001 42.00

3-540-41613-7 Omicini Mirche Coordination of Internet Agents 2001 32.00

3-540-41377-4 Muther Morgan Customer Relationship Management 2002 28.00

3-540-41247-6 Grellmann Seidler Deformation and Fracture Behaviour of Polymers 2001 70.00

1-85233-397-9 Vlietstra Rony Dictionary of Acronyms and Technical Abbreviations 2001 49.50

3-540-41341-3 Meyer Baese Digital Signal Processing with Field Programmable Gate Arrays 2001 52.50

0-387-95065-6 Sarjoughian Cellier Discrete Event Modeling and Simulation Technologies 2001 52.50

3-540-41817-2 Gusev Rempel Disorder and Order in Strongly Nonstoichiometric Compounds 2001 70.00

0-387-95192-X Coutinho Kumari Dynamic Simulations of Multibody Systems 2001 52.50

The book with 0-387-95144-X was deleted!

Please, enter 'Yes' to continue or 'Exit' to exit deleting!

exit

Please, choose a number to do:

1. Add a new book to the catalog.

2. Find a book from catalog.

3. Delete an existing book.

To close the program enter 'Close'!

1

Please, enter the book code with correct the ISBN rules:

0-387-95144-X

Please, enter the author's first name with (can't start with numbers):
999Coutinho
Please, enter the author's last name (can't start with numbers):
999Rempel
Please, enter the book title:
Kumari Dynamic Simulations of Multibody Systems
Please, enter the year of publication (less than 2013):
2001
Please, enter the book price (no negative or zero):
52.50
Duplicated Error! (or) Last name can not start with number and be empty!
The new book has been saved unsuccessfully!
Please, enter the book code with correct the ISBN rules:
0-387-95144-X
Please, enter the author's first name with (can't start with numbers):
Coutinho
Please, enter the author's last name (can't start with numbers):
Rempel
Please, enter the book title:
Please, enter the year of publication (less than 2013):
2001
Please, enter the book price (no negative or zero):
52.50
Duplicated Error! (or) Title can not be empty!
The new book has been saved unsuccessfully!
Please, enter the book code with correct the ISBN rules:
0-387-95144-X
Please, enter the author's first name with (can't start with numbers):
Coutinho
Please, enter the author's last name (can't start with numbers):
Rempel
Please, enter the book title:
Disorder and Order in Strongly Nonstoichiometric
Please, enter the year of publication (less than 2013):
2017
Please, enter the book price (no negative or zero):
52.50
Duplicated Error! (or) Year should be digits and not be greater than 2013!
The new book has been saved unsuccessfully!

Please, enter the book code with correct the ISBN rules:

0-387-95144x

Please, enter the author's first name with (can't start with numbers):

Coutinho

Please, enter the author's last name (can't start with numbers):

Rempel

Please, enter the book title:

Disorder and Order in Strongly Nonstoichiometric

Please, enter the year of publication (less than 2013):

2012

Please, enter the book price (no negative or zero):

0

Duplicated Error! (or) Price is not negative or zero!

The new book has been saved unsuccessfully!

Please, enter 'Exit' to go to the main menu!

no

Please, enter the book code with correct the ISBN rules:

0-387-951aa

Please, enter the author's first name with (can't start with numbers):

Coutinho

Please, enter the author's last name (can't start with numbers):

Please, enter the book title:

Rempel

Please, enter the year of publication (less than 2013):

Disorder and Order in Strongly Nonstoichiometric

Please, enter the book price (no negative or zero):

2009

Duplicated Error! (or) Year should be digits and not be greater than 2013!

The new book has been saved unsuccessfully!

Please, enter the book code with correct the ISBN rules:

0-387-95144-X

Please, enter the author's first name with (can't start with numbers):

Coutinho

Please, enter the author's last name (can't start with numbers):

Rempel

Please, enter the book title:

Disorder and Order in Strongly Nonstoichiometric

Please, enter the year of publication (less than 2013):

1099

Please, enter the book price (no negative or zero):

19.0

The Catalog Book below is: 20 raw(s)!

0-387-95206-3 Misra Pady A Discipline of Multiprogramming 2001 45.50

1-85233-384-7 Tao Lewis Adaptive Control of Nonsmooth Dynamic Systems 2001 65.00

3-540-67713-5 Kloss Ray Advertising Worldwide 2001 35.00

0-387-94937-2 Campbell Norman An Introduction to Environmental Biophysics 1998 31.50

1-85233-219-0 Jaulin Kieffer Applied Interval Analysis 2001 55.00

3-540-65367-8 Vazirani Gordy Approximation Algorithms 2001 24.50

3-540-66334-7 Faber Finn Biotransformations in Organic Chemistry 2000 23.00

3-540-66574-9 Kapitaniak Kelly Chaos for Engineers 2000 23.00

3-540-65620-0 Berg Clive Computational Geometry 2000 23.00

3-540-67481-0 Mueller Paul Computer Architecture 2000 35.00

3-540-42243-9 Vob Daduna Computer-Aided Scheduling of Public Transport 2001 45.00

3-540-41820-2 Leonhard Leonis Control of Electrical Drives 2001 42.00

3-540-41613-7 Omicini Mirche Coordination of Internet Agents 2001 32.00

3-540-41377-4 Muther Morgan Customer Relationship Management 2002 28.00

3-540-41247-6 Grellmann Seidler Deformation and Fracture Behaviour of Polymers 2001 70.00

1-85233-397-9 Vlietstra Rony Dictionary of Acronyms and Technical Abbreviations 2001 49.50

3-540-41341-3 Meyer Baese Digital Signal Processing with Field Programmable Gate Arrays 2001 52.50

0-387-95065-6 Sarjoughian Cellier Discrete Event Modeling and Simulation Technologies 2001 52.50

3-540-41817-2 Gusev Rempel Disorder and Order in Strongly Nonstoichiometric Compounds 2001 70.00

0-387-95192-X Coutinho Kumari Dynamic Simulations of Multibody Systems 2001 52.50

0-387-95144-X Coutinho Rempel Disorder and Order in Strongly Nonstoichiometric 1099 19.0

The new book has been saved successfully to the catalog!

Please, choose a number to do:

1. Add a new book to the catalog.

2. Find a book from catalog.

3. Delete an existing book.

To close the program enter 'Close'!

2

Please, enter letter 'A' to find the a book by ISBN in catalog!

Please, enter letter 'B' to find the a book by First Name in catalog!

Please, enter letter 'C' to find the a book by Last Name in catalog!

a

Please, enter the correct rules of book ISBN!

3-540-42

Sorry, we can not find the book!

Please, enter letter 'A' to find the a book by ISBN in catalog!

Please, enter letter 'B' to find the a book by First Name in catalog!

Please, enter letter 'C' to find the a book by Last Name in catalog!

3-540-41247-6

Please, enter 'Yes' to continue or 'Exit' to exit finding!

yes

Please, enter letter 'A' to find the a book by ISBN in catalog!

Please, enter letter 'B' to find the a book by First Name in catalog!

Please, enter letter 'C' to find the a book by Last Name in catalog!

a

Please, enter the correct rules of book ISBN!

3-540-41247-6

3-540-41247-6 Grellmann Seidler Deformation and Fracture Behaviour of Polymers 2001 70.00

Please, enter letter 'A' to find the a book by ISBN in catalog!

Please, enter letter 'B' to find the a book by First Name in catalog!

Please, enter letter 'C' to find the a book by Last Name in catalog!

b

Please, enter the valid author's Fist Name!

Coutinho

0-387-95192-X Coutinho Kumari Dynamic Simulations of Multibody Systems 2001 52.50

Please, enter 'Exit' to go to the main menu!

no

Please, enter letter 'A' to find the a book by ISBN in catalog!

Please, enter letter 'B' to find the a book by First Name in catalog!

Please, enter letter 'C' to find the a book by Last Name in catalog!

c

Please, enter the valid author's Last Name!

Gusev

Sorry, we can not find the book!

Please, enter letter 'A' to find the a book by ISBN in catalog!

Please, enter letter 'B' to find the a book by First Name in catalog!

Please, enter letter 'C' to find the a book by Last Name in catalog!

c

Please, enter the valid author's Last Name!

Paul

3-540-67481-0 Mueller Paul Computer Architecture 2000 35.00

Please, enter letter 'A' to find the a book by ISBN in catalog!

Please, enter letter 'B' to find the a book by First Name in catalog!

Please, enter letter 'C' to find the a book by Last Name in catalog!

a

Please, enter the correct rules of book ISBN!

3-540-41247-6

3-540-41247-6 Grellmann Seidler Deformation and Fracture Behaviour of Polymers 2001 70.00

Please, enter 'Exit' to go to the main menu!

exit

Please, choose a number to do:

1. Add a new book to the catalog.

2. Find a book from catalog.

3. Delete an existing book.

To close the program enter 'Close'!

close

Would you like to save the catalog to file! Yes or No

yes

The catalog was Saved!

Have a wonderful day!

The changed log below was saved to 'src/logCatalogchange.txt'

Duplicate delecated from catalog with ISBN-> 0-387-95144-X Hummel Craig Electronic Properties of Materials 2001 52.50

Duplicate delecated from catalog with ISBN-> 0-387-95144-X Hummel Craig Electronic Properties of Materials 2001 52.50

A book was deleted from the catalog with ISBN-> 3-540-42074-6 Ferziger Peric Computational Methods for Fluid Dynamics 2002 35.00

A book was deleted from the catalog with ISBN-> 0-387-95144-X Hummel Craig Electronic Properties of Materials 2001 52.50

New book was saved to the catalog with ISBN-> 0-387-95144-X Coutinho Rempel Disorder and Order in Strongly Nonstoichiometric 1099 19.0

Deleted duplicate in the catalog is: 0

The Catalog Book below is: 3 row(s)!

3-540-41341-3 Meyer Baese Digital Signal Processing with Field Programmable Gate Arrays 2001 52.50

0-387-95065-6 Sarjoughian Cellier Discrete Event Modeling and Simulation Technologies 2001 52.50

3-540-41817-2 Gusev Rempel Disorder and Order in Strongly Nonstoichiometric Compounds 2001 70.00

Please, choose a number to do:

1. Add a new book to the catalog.

2. Find a book from catalog.

3. Delete an existing book.

To close the program enter 'Close'!

3

Please, enter the ISBN of book to delete!

Please, enter the correct rules of book ISBN!

3-540-41341-3

The Catalog Book below is: 2 row(s)!

0-387-95065-6 Sarjoughian Cellier Discrete Event Modeling and Simulation Technologies 2001 52.50

3-540-41817-2 Gusev Rempel Disorder and Order in Strongly Nonstoichiometric Compounds 2001 70.00

The book with 3-540-41341-3 was deleted!

Please, enter 'Yes' to continue or 'Exit' to exit deleting!

0-387-95065-6

Please, enter the ISBN of book to delete!

Please, enter the correct rules of book ISBN!

0-387-95065-6

The Catalog Book below is: 1 row(s)!

3-540-41817-2 Gusev Rempel Disorder and Order in Strongly Nonstoichiometric Compounds 2001 70.00

The book with 0-387-95065-6 was deleted!

Please, enter 'Yes' to continue or 'Exit' to exit deleting!

3-540-41817-2

Please, enter the ISBN of book to delete!

Please, enter the correct rules of book ISBN!

3-540-41817-2

The Catalog Book below is: 0 row(s)!

The book with 3-540-41817-2 was deleted!

Please, enter 'Yes' to continue or 'Exit' to exit deleting!

3-540-41817-2

Please, enter the ISBN of book to delete!

Please, enter the correct rules of book ISBN!

3-540-41817-2

Deleting not successful!

The ISBN was not matched!

Please, enter 'Yes' to continue or 'Exit' to go to the main menu!

exit

Please, choose a number to do:

1. Add a new book to the catalog.

2. Find a book from catalog.

3. Delete an existing book.

To close the program enter 'Close'!

1

Please, enter the book code with correct the ISBN rules:

3-540-41817-2

Please, enter the author's last name with (can't start with numbers):

Gusev

Please, enter the author's first name (can't start with numbers):

Rempel

Please, enter the book title:

Disorder and Order in Strongly Nonstoichiometric Compounds 99

Please, enter the year of publication (less than 2013):

999

Please, enter the book price (no negative or zero):

9.99

The Catalog Book below is: 0 row(s)!

3-540-41817-2 Gusev Rempel Disorder and Order in Strongly Nonstoichiometric Compounds 99
999 9.99

The new book has been saved to the catalog!

Please, choose a number to do:

1. Add a new book to the catalog.

2. Find a book from catalog.

3. Delete an existing book.

To close the program enter 'Close'!

1

Please, enter the book code with correct the ISBN rules:

0-201-88337-6

Please, enter the author's last name with (can't start with numbers):

1name

Last name can not start with number and be empty!

Please, enter the book code with correct the ISBN rules:

0-201-88337-6

Please, enter the author's last name with (can't start with numbers):

Sarjoughian

Please, enter the author's first name (can't start with numbers):

Disorder

Please, enter the book title:

99 Disorder and Order in Strongly Nonstoichiometric Compounds

Please, enter the year of publication (less than 2013):

1990

Please, enter the book price (no negative or zero):

99.99

The Catalog Book below is: 1 row(s)!

3-540-41817-2 Gusev Rempel Disorder and Order in Strongly Nonstoichiometric Compounds 99 999 9.99

0-201-88337-6 Sarjoughian Disorder 99 Disorder and Order in Strongly Nonstoichiometric Compounds 1990 99.99

The new book has been saved to the catalog!

Please, choose a number to do:

1. Add a new book to the catalog.

2. Find a book from catalog.

3. Delete an existing book.

To close the program enter 'Close'!

1

Please, enter the book code with correct the ISBN rules:

0-13-117334-0

Please, enter the author's last name with (can't start with numbers):

Catalog 99

Please, enter the author's first name (can't start with numbers):

Disorder 99

Please, enter the book title:

strongly Nonstoichiometric 99

Please, enter the year of publication (less than 2013):

2012

Please, enter the book price (no negative or zero):

99.66

The Catalog Book below is: 2 row(s)!

3-540-41817-2 Gusev Rempel Disorder and Order in Strongly Nonstoichiometric Compounds 99 999 9.99

0-201-88337-6 Sarjoughian Disorder 99 Disorder and Order in Strongly Nonstoichiometric Compounds 1990 99.99

0-13-117334-0 Catalog 99 Disorder 99 strongly Nonstoichiometric 99 2012 99.66

The new book has been saved to the catalog!

Please, choose a number to do:

1. Add a new book to the catalog.

2. Find a book from catalog.

3. Delete an existing book.

To close the program enter 'Close'!

1

Please, enter the book code with correct the ISBN rules:

0821211315

Please, enter the author's last name with (can't start with numbers):

99Gusev

Last name can not start with number and be empty!

Please, enter the book code with correct the ISBN rules:

0821211315

Please, enter the author's last name with (can't start with numbers):

(((Gusev

Please, enter the author's first name (can't start with numbers):

Disorder 99

Please, enter the book title:

strongly Nonstoichiometric 99 2012

Please, enter the year of publication (less than 2013):

2019

Year should be digits and not be greater than 2013!

Please, enter the book code with correct the ISBN rules:

0821211315

Please, enter the author's last name with (can't start with numbers):

99Gusev

Last name can not start with number and be empty!

Please, enter the book code with correct the ISBN rules:

0821211315

Please, enter the author's last name with (can't start with numbers):

99Gusev

Last name can not start with number and be empty!

Please, enter 'Yes' to continue or 'Exit' to go to the main menu!

0821211315

Please, enter the book code with correct the ISBN rules:

Gusev

The book is not correct! It should follow the ISBN validation rules.

Please, enter the book code with correct the ISBN rules:

0821211315

Please, enter the author's last name with (can't start with numbers):

Gusev

Please, enter the author's first name (can't start with numbers):

9Gusev

First name can not start with number and be empty!

Please, enter the book code with correct the ISBN rules:

0821211315

Please, enter the author's last name with (can't start with numbers):

Gusev

Please, enter the author's first name (can't start with numbers):

strongly

Please, enter the book title:

Modeling and Simulation Technologies

Please, enter the year of publication (less than 2013):

2009

Please, enter the book price (no negative or zero):

999.9

The Catalog Book below is: 3 row(s)!

3-540-41817-2 Gusev Rempel Disorder and Order in Strongly Nonstoichiometric Compounds 99 999 9.99

0-201-88337-6 Sarjoughian Disorder 99 Disorder and Order in Strongly Nonstoichiometric Compounds 1990 99.99

0-13-117334-0 Catalog 99 Disorder 99 strongly Nonstoichiometric 99 2012 99.66

0821211315 Gusev strongly Modeling and Simulation Technologies 2009 999.9

The new book has been saved to the catalog!

Please, choose a number to do:

1. Add a new book to the catalog.

2. Find a book from catalog.

3. Delete an existing book.

To close the program enter 'Close'!

1

Please, enter the book code with correct the ISBN rules:

1-57231-866-X

Please, enter the author's last name with (can't start with numbers):

Sarjoughian

Please, enter the author's first name (can't start with numbers):

Digital

Please, enter the book title:

99 Digital Signal Processing

Please, enter the year of publication (less than 2013):

2012

Please, enter the book price (no negative or zero):

99.0

The Catalog Book below is: 4 row(s)!

3-540-41341-3 Meyer Baese Digital Signal Processing with Field Programmable Gate Arrays 2001 52.50

0-387-95065-6 Sarjoughian Cellier Discrete Event Modeling and Simulation Technologies 2001 52.50

3-540-41817-2 Gusev Rempel Disorder and Order in Strongly Nonstoichiometric Compounds 2001 70.00

1-57231-866-X Sarjoughian Digital 99 Digital Signal Processing 2012 99.0

The new book has been saved to the catalog!

Please, choose a number to do:

1. Add a new book to the catalog.

2. Find a book from catalog.

3. Delete an existing book.

To close the program enter 'Close'!

1

Please, enter the book code with correct the ISBN rules:

0-201-8A337-6

The book is not correct! It should follow the ISBN validation rules.

Please, enter the book code with correct the ISBN rules:

0-201-88337-63

The book is not correct! It should follow the ISBN validation rules.

Please, enter the book code with correct the ISBN rules:

0-201-88-337-6

The book is not correct! It should follow the ISBN validation rules.

Please, enter the book code with correct the ISBN rules:

0-201883376

The book is not correct! It should follow the ISBN validation rules.

Please, enter 'Yes' to continue or 'Exit' to go to the main menu!

0-201-88337-3

Please, enter the book code with correct the ISBN rules:

-013-117334-0

The book is not correct! It should follow the ISBN validation rules.

Please, enter the book code with correct the ISBN rules:

157231--866-X

The book is not correct! It should follow the ISBN validation rules.

Please, enter the book code with correct the ISBN rules:

013-1134-0

The book is not correct! It should follow the ISBN validation rules.

Please, enter 'Yes' to continue or 'Exit' to go to the main menu!

yes

Please, choose a number to do:

1. Add a new book to the catalog.

2. Find a book from catalog.

3. Delete an existing book.

To close the program enter 'Close'!

1

Please, enter the book code with correct the ISBN rules:

3-540-41817-2

Please, enter the author's last name with (can't start with numbers):

Gusev

Please, enter the author's first name (can't start with numbers):

Rempel

Please, enter the book title:

lease, enter the book code with correct the ISBN rules

Please, enter the year of publication (less than 2013):

2009

Please, enter the book price (no negative or zero):

9.99

Duplicated Error! (or) 3-540-41817-2 Gusev Rempel lease, enter the book code with correct the ISBN rules 2009 9.99

The new book has not been saved!

Please, enter the book code with correct the ISBN rules:

1-57231-866-X

Please, enter the author's last name with (can't start with numbers):

Gusev

Please, enter the author's first name (can't start with numbers):

Rempel

Please, enter the book title:

Strongly Nonstoichiometric

Please, enter the year of publication (less than 2013):

1999

Please, enter the book price (no negative or zero):

79.99

The Catalog Book below is: 4 row(s)!

3-540-41341-3 Meyer Baese Digital Signal Processing with Field Programmable Gate Arrays 2001 52.50

0-387-95065-6 Sarjoughian Cellier Discrete Event Modeling and Simulation Technologies 2001 52.50

3-540-41817-2 Gusev Rempel Disorder and Order in Strongly Nonstoichiometric Compounds 2001 70.00

1-57231-866-X Gusev Rempel Strongly Nonstoichiometric 1999 79.99

The new book has been saved to the catalog!

Please, choose a number to do:

1. Add a new book to the catalog.

2. Find a book from catalog.

3. Delete an existing book.

To close the program enter 'Close'!

2

Please, enter letter 'A' to find the a book by ISBN in catalog!

Please, enter letter 'B' to find the a book by Last Name in catalog!

Please, enter letter 'C' to find the a book by First Name in catalog!

a

Please, enter the correct rules of book ISBN!

Strongly Nonstoichiometric

Sorry, we can not find the book!

Please, enter letter 'A' to find the a book by ISBN in catalog!

Please, enter letter 'B' to find the a book by Last Name in catalog!

Please, enter letter 'C' to find the a book by First Name in catalog!

Please, enter 'Yes' to continue or 'Exit' to exit finding!

3-540-41817-2

Please, enter letter 'A' to find the a book by ISBN in catalog!

Please, enter letter 'B' to find the a book by Last Name in catalog!

Please, enter letter 'C' to find the a book by First Name in catalog!

a

Please, enter the correct rules of book ISBN!

3-540-41817-2

3-540-41817-2 Gusev Rempel Disorder and Order in Strongly Nonstoichiometric Compounds 2001 70.00

Please, enter letter 'A' to find the a book by ISBN in catalog!

Please, enter letter 'B' to find the a book by Last Name in catalog!

Please, enter letter 'C' to find the a book by First Name in catalog!

a

Please, enter the correct rules of book ISBN!

3-540-41341-3

3-540-41341-3 Meyer Baese Digital Signal Processing with Field Programmable Gate Arrays 2001 52.50

Please, enter letter 'A' to find the a book by ISBN in catalog!

Please, enter letter 'B' to find the a book by Last Name in catalog!

Please, enter letter 'C' to find the a book by First Name in catalog!

c

Please, enter the valid author's First Name!

Rempel

3-540-41817-2 Gusev Rempel Disorder and Order in Strongly Nonstoichiometric Compounds 2001 70.00

Please, enter letter 'A' to find the a book by ISBN in catalog!

Please, enter letter 'B' to find the a book by Last Name in catalog!

Please, enter letter 'C' to find the a book by First Name in catalog!

b

Please, enter the valid author's Last Name!

Sarjoughian

0-387-95065-6 Sarjoughian Cellier Discrete Event Modeling and Simulation Technologies 2001 52.50

Please, enter letter 'A' to find the a book by ISBN in catalog!

Please, enter letter 'B' to find the a book by Last Name in catalog!

Please, enter letter 'C' to find the a book by First Name in catalog!

Please, enter 'Yes' to continue or 'Exit' to go to the main menu!

exit

Please, choose a number to do:

1. Add a new book to the catalog.

2. Find a book from catalog.

3. Delete an existing book.

To close the program enter 'Close'!

3

Please, enter the ISBN of book to delete!

Please, enter the correct rules of book ISBN!

3-540-41817-2

The Catalog Book below is: 2 row(s)!

3-540-41341-3 Meyer Baese Digital Signal Processing with Field Programmable Gate Arrays 2001 52.50

0-387-95065-6 Sarjoughian Cellier Discrete Event Modeling and Simulation Technologies 2001 52.50

The book with 3-540-41817-2 was deleted!

Please, enter 'Yes' to continue or 'Exit' to exit deleting!

exit

Please, choose a number to do:

1. Add a new book to the catalog.

2. Find a book from catalog.

3. Delete an existing book.

To close the program enter 'Close'!

close

Would you like to save the catalog to file! Yes or No

yes

The catalog was Saved!

Have a wonderful day!

The changed log below was saved to 'src/logCatalogchange.txt'

A book was deleted from the catalog with ISBN-> 3-540-41817-2 Gusev Rempel Disorder and Order in Strongly Nonstoichiometric Compounds 2001 70.00