File Edit Source Refactor Navigate Search Project Run Window Help

Project Explorer

- Maik Project 1
  - JRE System Library [JavaSE-1.8]
  - src
    - (default package)
      - BareBonesArrayList.java
        - BareBonesArrayList<E>
      - Books.java
      - DHArrayList.java
      - myUniLibrary.java

Books.java   myUniLibrary.java

```
115              System.out.println("Was unable to find the Book: "+title);
116          }
117          break;
```

Problems @ Javadoc Declaration Console

myUniLibrary [Java Application] C:\Program Files\Java\jre1.8.0_171\bin\javaw.exe (Feb 24, 2019, 3:24:50 PM)

```
Welcome to the University Library Please Select One of the Following (1-8)
1. List all the books
2. Display the books sorted according to the year of publication
3. Sort the books according to length in pages, starting with the shortest
4. Sort the books according to review ratings, starting with the highest rating
5. Ask user for a subject, and display all the books belonging to that specific subject
6. Search for a specific book by name, and display all the details if the book exists
7. Add a book to the list of books (ask the user for all the details
8. Exit
1
Books:
 Title: Book#1
           Year: 2014 Pages: 63    Rating:1.0 Subject: Programming
 | Title: Book#2
           Year: 1982 Pages: 565   Rating:1.5 Subject: Operating Systems
 | Title: Book#3
           Year: 1981 Pages: 341   Rating:8.0 Subject: Algorithms
 | Title: Book#4
           Year: 1996 Pages: 487   Rating:6.5 Subject: Programming
 | Title: Book#5
           Year: 2016 Pages: 400   Rating:6.1 Subject: Operating Systems
 | Title: Book#6
           Year: 1998 Pages: 368   Rating:2.0 Subject: Algorithms
 | Title: Book#7
           Year: 2002 Pages: 957   Rating:4.0 Subject: Algorithms
 | Title: Book#8
           Year: 1983 Pages: 310   Rating:3.2 Subject: Data Structures
 | Title: Book#9
           Year: 2010 Pages: 768   Rating:3.5 Subject: Data Structures
 | Title: Book#10
           Year: 2001 Pages: 265   Rating:2.3 Subject: Operating Systems
 | Title: Book#11
           Year: 1984 Pages: 398   Rating:0.9 Subject: Gaming
 | Title: Book#12
           Year: 1989 Pages: 104   Rating:9.9 Subject: Operating Systems
 | Title: Book#13
           Year: 2015 Pages: 840   Rating:7.1 Subject: Data Structures
 | Title: Book#14
           Year: 1990 Pages: 989   Rating:4.7 Subject: Data Structures
 | Title: Book#15
           Year: 2004 Pages: 468   Rating:0.5 Subject: Gaming
 | Title: Book#16
           Year: 1993 Pages: 263   Rating:5.2 Subject: Gaming
 | Title: Book#17
           Year: 1988 Pages: 702   Rating:6.6 Subject: Programming
 | Title: Book#18
           Year: 2009 Pages: 790   Rating:0.5 Subject: Gaming
 | Title: Book#19
           Year: 2011 Pages: 559   Rating:4.9 Subject: Data Structures
 | Title: Book#20
           Year: 2013 Pages: 807   Rating:9.3 Subject: Programming
 |
```

myUniLibrary.java - Maik Project 1/src

File   Edit   Source   Refactor   Navigate   Search   Project   Run   Window   Help

Project Explorer

Maik Project 1
  JRE System Library [JavaSE-1.8]
  src
    (default package)
      BareBonesArrayList.java
        BareBonesArrayList<E>
      Books.java
      DHArrayList.java
      myUniLibrary.java

Books.java   myUniLibrary.java

```
115              System.out.println("Was unable to find the Book: "+title);
116          }
117          break;
```

Problems   Javadoc   Declaration   Console

myUniLibrary [Java Application] C:\Program Files\Java\jre1.8.0_171\bin\javaw.exe (Feb 24, 2019, 3:24:50 PM)
```
1. List all the books
1. Display the books sorted according to the year of publication
3. Sort the books according to length in pages, starting with the shortest
4. Sort the books according to review ratings, starting with the highest rating
5. Ask user for a subject, and display all the books belonging to that specific subject
6. Search for a specific book by name, and display all the details if the book exists
7. Add a book to the list of books (ask the user for all the details
8. Exit
2
Sorted by Year (Acending)
| Title: Book#3
                Year: 1981 Pages: 341   Rating:8.0 Subject: Algorithms
| Title: Book#2
                Year: 1982 Pages: 565   Rating:1.5 Subject: Operating Systems
| Title: Book#8
                Year: 1983 Pages: 310   Rating:3.2 Subject: Data Structures
| Title: Book#11
                Year: 1984 Pages: 398   Rating:0.9 Subject: Gaming
| Title: Book#17
                Year: 1988 Pages: 702   Rating:6.6 Subject: Programming
| Title: Book#12
                Year: 1989 Pages: 104   Rating:9.9 Subject: Operating Systems
| Title: Book#14
                Year: 1990 Pages: 989   Rating:4.7 Subject: Data Structures
| Title: Book#16
                Year: 1993 Pages: 263   Rating:5.2 Subject: Gaming
| Title: Book#4
                Year: 1996 Pages: 487   Rating:6.5 Subject: Programming
| Title: Book#6
                Year: 1998 Pages: 368   Rating:2.0 Subject: Algorithms
| Title: Book#10
                Year: 2001 Pages: 265   Rating:2.3 Subject: Operating Systems
| Title: Book#7
                Year: 2002 Pages: 957   Rating:4.0 Subject: Algorithms
| Title: Book#15
                Year: 2004 Pages: 468   Rating:0.5 Subject: Gaming
| Title: Book#18
                Year: 2009 Pages: 790   Rating:0.5 Subject: Gaming
| Title: Book#9
                Year: 2010 Pages: 768   Rating:3.5 Subject: Data Structures
| Title: Book#19
                Year: 2011 Pages: 559   Rating:4.9 Subject: Data Structures
| Title: Book#20
                Year: 2013 Pages: 807   Rating:9.3 Subject: Programming
| Title: Book#1
                Year: 2014 Pages: 63    Rating:1.0 Subject: Programming
| Title: Book#13
                Year: 2015 Pages: 840   Rating:7.1 Subject: Data Structures
| Title: Book#5
                Year: 2016 Pages: 400   Rating:6.1 Subject: Operating Systems
|
```

Task List

Outline
  myUniLibrary

File   Edit   Source   Refactor   Navigate   Search   Project   Run   Window   Help

Quick Acc

Project Explorer

- Maik Project 1
  - JRE System Library [JavaSE-1.8]
  - src
    - (default package)
      - BareBonesArrayList.java
        - BareBonesArrayList<E>
      - Books.java
      - DHArrayList.java
      - myUniLibrary.java

Books.java   myUniLibrary.java

```
115                System.out.println("Was unable to find the Book: "+title);
116            }
117            break;
```
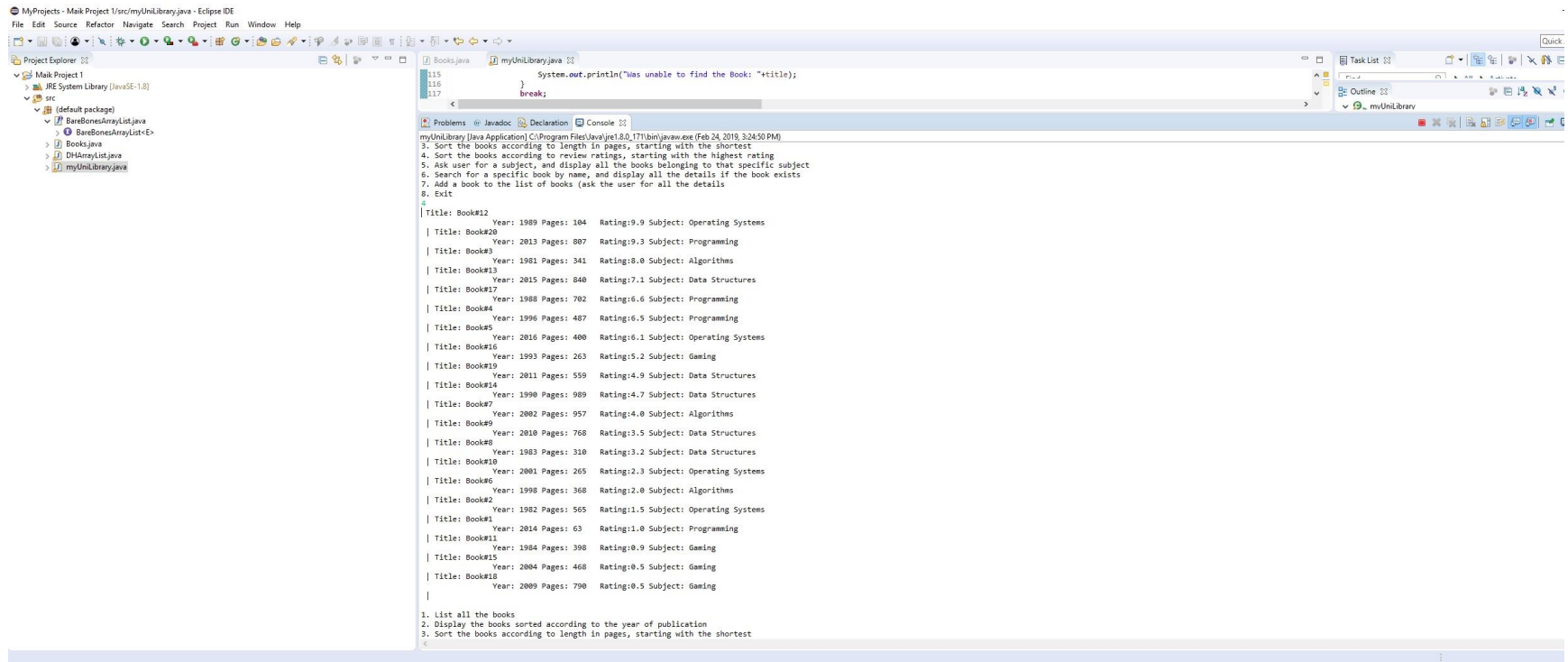
Problems   Javadoc   Declaration   Console

myUniLibrary [Java Application] C:\Program Files\Java\jre1.8.0_171\bin\javaw.exe (Feb 24, 2019, 3:24:50 PM)

```
3. Sort the books according to length in pages, starting with the shortest
4. Sort the books according to review ratings, starting with the highest rating
5. Ask user for a subject, and display all the books belonging to that specific subject
6. Search for a specific book by name, and display all the details if the book exists
7. Add a book to the list of books (ask the user for all the details
8. Exit
3
Title: Book#1
            Year: 2014 Pages: 63    Rating:1.0 Subject: Programming
| Title: Book#12
            Year: 1989 Pages: 104   Rating:9.9 Subject: Operating Systems
| Title: Book#16
            Year: 1993 Pages: 263   Rating:5.2 Subject: Gaming
| Title: Book#10
            Year: 2001 Pages: 265   Rating:2.3 Subject: Operating Systems
| Title: Book#8
            Year: 1983 Pages: 310   Rating:3.2 Subject: Data Structures
| Title: Book#3
            Year: 1981 Pages: 341   Rating:8.0 Subject: Algorithms
| Title: Book#6
            Year: 1998 Pages: 368   Rating:2.0 Subject: Algorithms
| Title: Book#11
            Year: 1984 Pages: 398   Rating:0.9 Subject: Gaming
| Title: Book#5
            Year: 2016 Pages: 400   Rating:6.1 Subject: Operating Systems
| Title: Book#15
            Year: 2004 Pages: 468   Rating:0.5 Subject: Gaming
| Title: Book#4
            Year: 1996 Pages: 487   Rating:6.5 Subject: Programming
| Title: Book#19
            Year: 2011 Pages: 559   Rating:4.9 Subject: Data Structures
| Title: Book#2
            Year: 1982 Pages: 565   Rating:1.5 Subject: Operating Systems
| Title: Book#17
            Year: 1988 Pages: 702   Rating:6.6 Subject: Programming
| Title: Book#9
            Year: 2010 Pages: 768   Rating:3.5 Subject: Data Structures
| Title: Book#18
            Year: 2009 Pages: 790   Rating:0.5 Subject: Gaming
| Title: Book#20
            Year: 2013 Pages: 807   Rating:9.3 Subject: Programming
| Title: Book#13
            Year: 2015 Pages: 840   Rating:7.1 Subject: Data Structures
| Title: Book#7
            Year: 2002 Pages: 957   Rating:4.0 Subject: Algorithms
| Title: Book#14
            Year: 1990 Pages: 989   Rating:4.7 Subject: Data Structures
|

1. List all the books
2. Display the books sorted according to the year of publication
3. Sort the books according to length in pages, starting with the shortest
```

Task List

Outline
- myUniLibrary

Project Explorer

- Maik Project 1
  - JRE System Library [JavaSE-1.8]
  - src
    - (default package)
      - BareBonesArrayList.java
        - BareBonesArrayList<E>
      - Books.java
      - DHArrayList.java
      - myUniLibrary.java

Task List

Outline

myUniLibrary

Books.java   myUniLibrary.java

```
115                System.out.println("Was unable to find the Book: "+title);
116            }
117            break;
```

Problems   Javadoc   Declaration   Console

```
myUniLibrary [Java Application] C:\Program Files\Java\jre1.8.0_171\bin\javaw.exe (Feb 24, 2019, 3:24:50 PM)
3. Sort the books according to length in pages, starting with the shortest
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7. Add a book to the list of books (ask the user for all the details
8. Exit
4
| Title: Book#12
                Year: 1989 Pages: 104   Rating:9.9 Subject: Operating Systems
| Title: Book#20
                Year: 2013 Pages: 807   Rating:9.3 Subject: Programming
| Title: Book#3
                Year: 1981 Pages: 341   Rating:8.0 Subject: Algorithms
| Title: Book#13
                Year: 2015 Pages: 840   Rating:7.1 Subject: Data Structures
| Title: Book#17
                Year: 1988 Pages: 702   Rating:6.6 Subject: Programming
| Title: Book#4
                Year: 1996 Pages: 487   Rating:6.5 Subject: Programming
| Title: Book#5
                Year: 2016 Pages: 400   Rating:6.1 Subject: Operating Systems
| Title: Book#16
                Year: 1993 Pages: 263   Rating:5.2 Subject: Gaming
| Title: Book#19
                Year: 2011 Pages: 559   Rating:4.9 Subject: Data Structures
| Title: Book#14
                Year: 1990 Pages: 989   Rating:4.7 Subject: Data Structures
| Title: Book#7
                Year: 2002 Pages: 957   Rating:4.0 Subject: Algorithms
| Title: Book#9
                Year: 2010 Pages: 768   Rating:3.5 Subject: Data Structures
| Title: Book#8
                Year: 1983 Pages: 310   Rating:3.2 Subject: Data Structures
| Title: Book#10
                Year: 2001 Pages: 265   Rating:2.3 Subject: Operating Systems
| Title: Book#6
                Year: 1998 Pages: 368   Rating:2.0 Subject: Algorithms
| Title: Book#2
                Year: 1982 Pages: 565   Rating:1.5 Subject: Operating Systems
| Title: Book#1
                Year: 2014 Pages: 63    Rating:1.0 Subject: Programming
| Title: Book#11
                Year: 1984 Pages: 398   Rating:0.9 Subject: Gaming
| Title: Book#15
                Year: 2004 Pages: 468   Rating:0.5 Subject: Gaming
| Title: Book#18
                Year: 2009 Pages: 790   Rating:0.5 Subject: Gaming
|

1. List all the books
2. Display the books sorted according to the year of publication
3. Sort the books according to length in pages, starting with the shortest
```

File   Edit   Source   Refactor   Navigate   Search   Project   Run   Window   Help

Project Explorer

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  - src
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Books.java   myUniLibrary.java

```
115              System.out.println("Was unable to find the Book: "+title);
116          }
117          break;
```

Problems   @ Javadoc   Declaration   Console

myUniLibrary [Java Application] C:\Program Files\Java\jre1.8.0_171\bin\javaw.exe (Feb 24, 2019, 3:24:50 PM)

```
| Title: Book#8
                Year: 1983 Pages: 310    Rating:3.2 Subject: Data Structures
| Title: Book#10
                Year: 2001 Pages: 265    Rating:2.3 Subject: Operating Systems
| Title: Book#6
                Year: 1998 Pages: 368    Rating:2.0 Subject: Algorithms
| Title: Book#2
                Year: 1982 Pages: 565    Rating:1.5 Subject: Operating Systems
| Title: Book#1
                Year: 2014 Pages: 63     Rating:1.0 Subject: Programming
| Title: Book#11
                Year: 1984 Pages: 398    Rating:0.9 Subject: Gaming
| Title: Book#15
                Year: 2004 Pages: 468    Rating:0.5 Subject: Gaming
| Title: Book#18
                Year: 2009 Pages: 790    Rating:0.5 Subject: Gaming
|

1. List all the books
2. Display the books sorted according to the year of publication
3. Sort the books according to length in pages, starting with the shortest
4. Sort the books according to review ratings, starting with the highest rating
5. Ask user for a subject, and display all the books belonging to that specific subject
6. Search for a specific book by name, and display all the details if the book exists
7. Add a book to the list of books (ask the user for all the details
8. Exit
5
Enter the Subject:
Programming
Title: Book#20
                Year: 2013 Pages: 807    Rating:9.3 Subject: Programming

Title: Book#17
                Year: 1988 Pages: 702    Rating:6.6 Subject: Programming

Title: Book#4
                Year: 1996 Pages: 487    Rating:6.5 Subject: Programming

Title: Book#1
                Year: 2014 Pages: 63     Rating:1.0 Subject: Programming


1. List all the books
2. Display the books sorted according to the year of publication
3. Sort the books according to length in pages, starting with the shortest
4. Sort the books according to review ratings, starting with the highest rating
5. Ask user for a subject, and display all the books belonging to that specific subject
6. Search for a specific book by name, and display all the details if the book exists
7. Add a book to the list of books (ask the user for all the details
8. Exit
```

Project Explorer

- Maik Project 1
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Books.java   myUniLibrary.java

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115                System.out.println("Was unable to find the Book: "+title);
116            }
117            break;
```

Problems   @ Javadoc   Declaration   Console

myUniLibrary [Java Application] C:\Program Files\Java\jre1.8.0_171\bin\javaw.exe (Feb 24, 2019, 3:24:50 PM)

```
                      Year: 2004 Pages: 468    Rating:0.5 Subject: Gaming
| Title: Book#18
                      Year: 2009 Pages: 790    Rating:0.5 Subject: Gaming
|

1. List all the books
2. Display the books sorted according to the year of publication
3. Sort the books according to length in pages, starting with the shortest
4. Sort the books according to review ratings, starting with the highest rating
5. Ask user for a subject, and display all the books belonging to that specific subject
6. Search for a specific book by name, and display all the details if the book exists
7. Add a book to the list of books (ask the user for all the details
8. Exit
5
Enter the Subject:
Programming
Title: Book#20
                      Year: 2013 Pages: 807    Rating:9.3 Subject: Programming

Title: Book#17
                      Year: 1988 Pages: 702    Rating:6.6 Subject: Programming

Title: Book#4
                      Year: 1996 Pages: 487    Rating:6.5 Subject: Programming

Title: Book#1
                      Year: 2014 Pages: 63     Rating:1.0 Subject: Programming


1. List all the books
2. Display the books sorted according to the year of publication
3. Sort the books according to length in pages, starting with the shortest
4. Sort the books according to review ratings, starting with the highest rating
5. Ask user for a subject, and display all the books belonging to that specific subject
6. Search for a specific book by name, and display all the details if the book exists
7. Add a book to the list of books (ask the user for all the details
8. Exit
5
Enter the Subject:
Fantasy
|
Was unable to find the Subject: Fantasy
1. List all the books
2. Display the books sorted according to the year of publication
3. Sort the books according to length in pages, starting with the shortest
4. Sort the books according to review ratings, starting with the highest rating
5. Ask user for a subject, and display all the books belonging to that specific subject
6. Search for a specific book by name, and display all the details if the book exists
7. Add a book to the list of books (ask the user for all the details
8. Exit
```

Quick Access

Project Explorer

- Maik Project 1
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      - myUniLibrary.java

Books.java   myUniLibrary.java

```
115                    System.out.println("Was unable to find the Book: "+title);
116            }
117            break;
```

Task List

Outline
- myUniLibrary

Problems   Javadoc   Declaration   Console

myUniLibrary [Java Application] C:\Program Files\Java\jre1.8.0_171\bin\javaw.exe (Feb 24, 2019, 3:24:50 PM)

```
Programming
Title: Book#20
                Year: 2013 Pages: 807   Rating:9.3 Subject: Programming

Title: Book#17
                Year: 1988 Pages: 702   Rating:6.6 Subject: Programming

Title: Book#4
                Year: 1996 Pages: 487   Rating:6.5 Subject: Programming

Title: Book#1
                Year: 2014 Pages: 63    Rating:1.0 Subject: Programming


1. List all the books
2. Display the books sorted according to the year of publication
3. Sort the books according to length in pages, starting with the shortest
4. Sort the books according to review ratings, starting with the highest rating
5. Ask user for a subject, and display all the books belonging to that specific subject
6. Search for a specific book by name, and display all the details if the book exists
7. Add a book to the list of books (ask the user for all the details
8. Exit
5
Enter the Subject:
Fantasy

Was unable to find the Subject: Fantasy
1. List all the books
2. Display the books sorted according to the year of publication
3. Sort the books according to length in pages, starting with the shortest
4. Sort the books according to review ratings, starting with the highest rating
5. Ask user for a subject, and display all the books belonging to that specific subject
6. Search for a specific book by name, and display all the details if the book exists
7. Add a book to the list of books (ask the user for all the details
8. Exit
6
Enter the Book Title
book#3
Title: Book#3
                Year: 1981 Pages: 341   Rating:8.0 Subject: Algorithms


1. List all the books
2. Display the books sorted according to the year of publication
3. Sort the books according to length in pages, starting with the shortest
4. Sort the books according to review ratings, starting with the highest rating
5. Ask user for a subject, and display all the books belonging to that specific subject
6. Search for a specific book by name, and display all the details if the book exists
7. Add a book to the list of books (ask the user for all the details
8. Exit
```
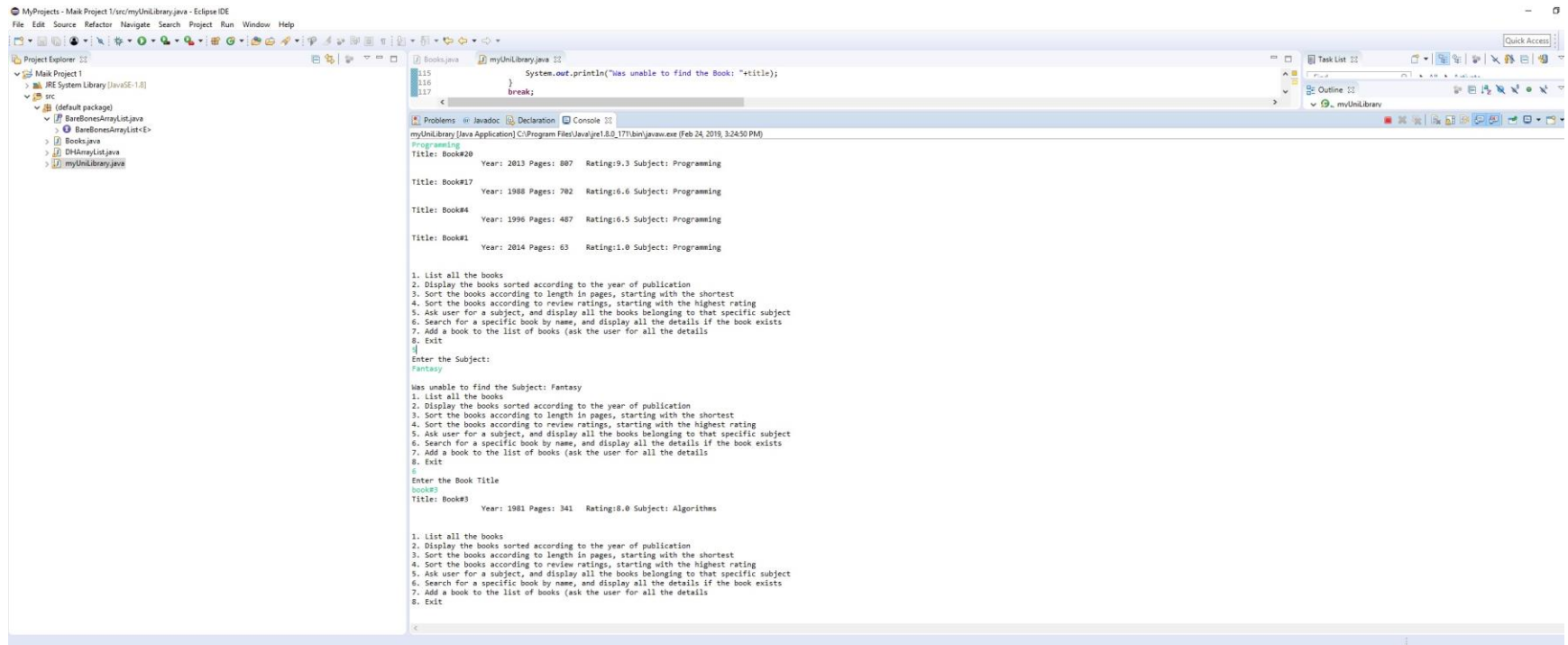
Project Explorer

Maik Project 1
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    - myUniLibrary.java

Books.java   myUniLibrary.java

```
115            System.out.println("Was unable to find the Book: "+title);
116        }
117    break;
```
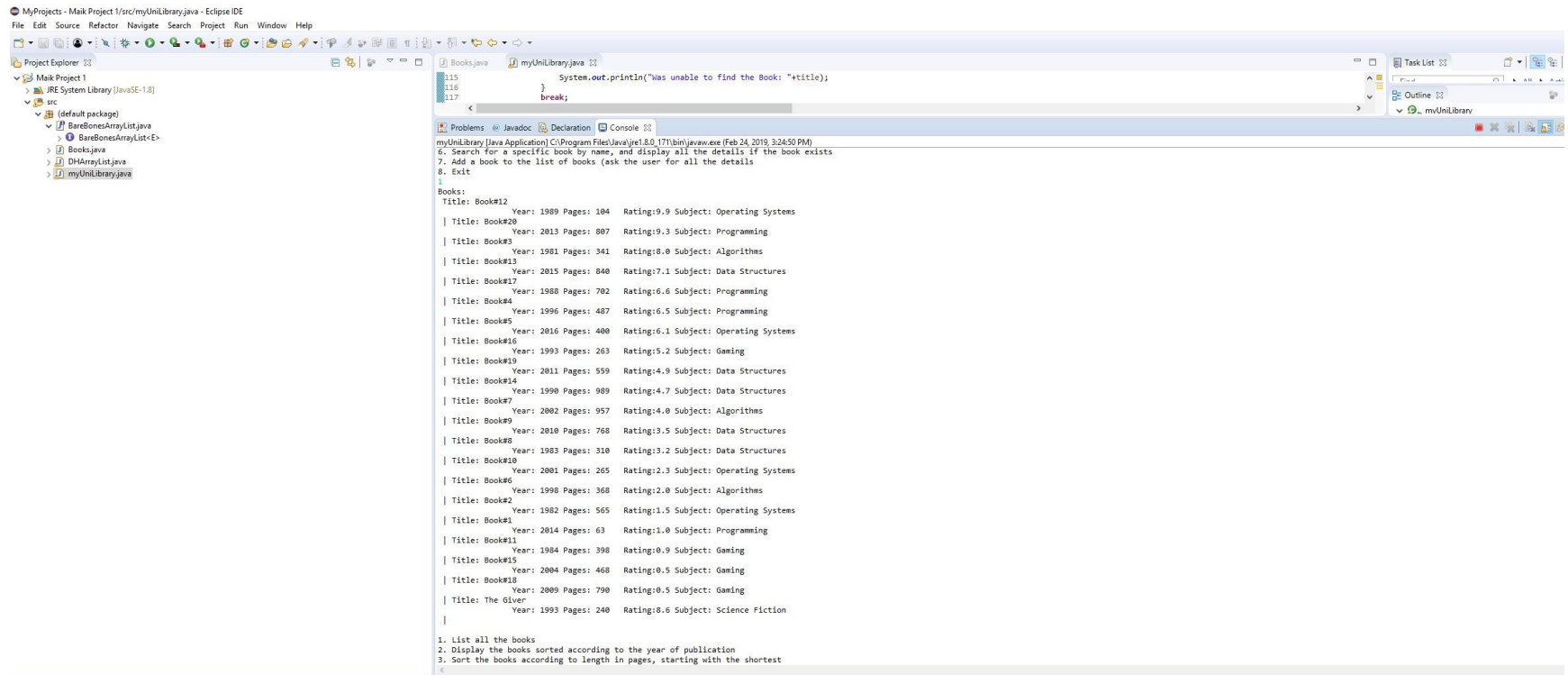
Problems   @ Javadoc   Declaration   Console

```
myUniLibrary [Java Application] C:\Program Files\Java\jre1.8.0_171\bin\javaw.exe (Feb 24, 2019, 3:24:50 PM)
7. Add a book to the list of books (ask the user for all the details
8. Exit
5
Enter the Subject:
Fantasy

Was unable to find the Subject: Fantasy
1. List all the books
2. Display the books sorted according to the year of publication
3. Sort the books according to length in pages, starting with the shortest
4. Sort the books according to review ratings, starting with the highest rating
5. Ask user for a subject, and display all the books belonging to that specific subject
6. Search for a specific book by name, and display all the details if the book exists
7. Add a book to the list of books (ask the user for all the details
8. Exit
6
Enter the Book Title
book#3
Title: Book#3
              Year: 1981 Pages: 341   Rating:8.0 Subject: Algorithms


1. List all the books
2. Display the books sorted according to the year of publication
3. Sort the books according to length in pages, starting with the shortest
4. Sort the books according to review ratings, starting with the highest rating
5. Ask user for a subject, and display all the books belonging to that specific subject
6. Search for a specific book by name, and display all the details if the book exists
7. Add a book to the list of books (ask the user for all the details
8. Exit
7
Enter the Title:
The Giver
Enter the Subject:
Science Fiction
Enter Year (From 1980 to 2019):
1993
Enter Number of Pages (From 50 to 1000):
240
Enter Rating:
8.6

1. List all the books
2. Display the books sorted according to the year of publication
3. Sort the books according to length in pages, starting with the shortest
4. Sort the books according to review ratings, starting with the highest rating
5. Ask user for a subject, and display all the books belonging to that specific subject
6. Search for a specific book by name, and display all the details if the book exists
7. Add a book to the list of books (ask the user for all the details
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```

File   Edit   Source   Refactor   Navigate   Search   Project   Run   Window   Help

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Books.java   myUniLibrary.java

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115              System.out.println("Was unable to find the Book: "+title);
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117          break;
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- myUniLibrary

Problems   @ Javadoc   Declaration   Console

myUniLibrary [Java Application] C:\Program Files\Java\jre1.8.0_171\bin\javaw.exe (Feb 24, 2019, 3:24:50 PM)

```
6. Search for a specific book by name, and display all the details if the book exists
7. Add a book to the list of books (ask the user for all the details
8. Exit
1
Books:
 Title: Book#12
            Year: 1989 Pages: 104   Rating:9.9 Subject: Operating Systems
| Title: Book#20
            Year: 2013 Pages: 807   Rating:9.3 Subject: Programming
| Title: Book#3
            Year: 1981 Pages: 341   Rating:8.0 Subject: Algorithms
| Title: Book#13
            Year: 2015 Pages: 840   Rating:7.1 Subject: Data Structures
| Title: Book#17
            Year: 1988 Pages: 702   Rating:6.6 Subject: Programming
| Title: Book#4
            Year: 1996 Pages: 487   Rating:6.5 Subject: Programming
| Title: Book#5
            Year: 2016 Pages: 400   Rating:6.1 Subject: Operating Systems
| Title: Book#16
            Year: 1993 Pages: 263   Rating:5.2 Subject: Gaming
| Title: Book#19
            Year: 2011 Pages: 559   Rating:4.9 Subject: Data Structures
| Title: Book#14
            Year: 1990 Pages: 989   Rating:4.7 Subject: Data Structures
| Title: Book#7
            Year: 2002 Pages: 957   Rating:4.0 Subject: Algorithms
| Title: Book#9
            Year: 2010 Pages: 768   Rating:3.5 Subject: Data Structures
| Title: Book#8
            Year: 1983 Pages: 310   Rating:3.2 Subject: Data Structures
| Title: Book#10
            Year: 2001 Pages: 265   Rating:2.3 Subject: Operating Systems
| Title: Book#6
            Year: 1998 Pages: 368   Rating:2.0 Subject: Algorithms
| Title: Book#2
            Year: 1982 Pages: 565   Rating:1.5 Subject: Operating Systems
| Title: Book#1
            Year: 2014 Pages: 63    Rating:1.0 Subject: Programming
| Title: Book#11
            Year: 1984 Pages: 398   Rating:0.9 Subject: Gaming
| Title: Book#15
            Year: 2004 Pages: 468   Rating:0.5 Subject: Gaming
| Title: Book#18
            Year: 2009 Pages: 790   Rating:0.5 Subject: Gaming
| Title: The Giver
            Year: 1993 Pages: 240   Rating:8.6 Subject: Science Fiction
|

1. List all the books
2. Display the books sorted according to the year of publication
3. Sort the books according to length in pages, starting with the shortest
```

Project Explorer

- Maik Project 1
  - JRE System Library [JavaSE-1.8]
  - src
    - (default package)
      - BareBonesArrayList.java
        - BareBonesArrayList<E>
      - Books.java
      - DHArrayList.java
      - myUniLibrary.java

Books.java   myUniLibrary.java

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115              System.out.println("Was unable to find the Book: "+title);
116         }
117         break;
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Problems   Javadoc   Declaration   Console

myUniLibrary [Java Application] C:\Program Files\Java\jre1.8.0_171\bin\javaw.exe (Feb 24, 2019, 3:24:50 PM)

```
                Year: 2011 Pages: 559    Rating:4.9 Subject: Data Structures
| Title: Book#14
                Year: 1990 Pages: 989    Rating:4.7 Subject: Data Structures
| Title: Book#7
                Year: 2002 Pages: 957    Rating:4.0 Subject: Algorithms
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                Year: 2010 Pages: 768    Rating:3.5 Subject: Data Structures
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                Year: 1983 Pages: 310    Rating:3.2 Subject: Data Structures
| Title: Book#10
                Year: 2001 Pages: 265    Rating:2.3 Subject: Operating Systems
| Title: Book#6
                Year: 1998 Pages: 368    Rating:2.0 Subject: Algorithms
| Title: Book#2
                Year: 1982 Pages: 565    Rating:1.5 Subject: Operating Systems
| Title: Book#1
                Year: 2014 Pages: 63     Rating:1.0 Subject: Programming
| Title: Book#11
                Year: 1984 Pages: 398    Rating:0.9 Subject: Gaming
| Title: Book#15
                Year: 2004 Pages: 468    Rating:0.5 Subject: Gaming
| Title: Book#18
                Year: 2009 Pages: 790    Rating:0.5 Subject: Gaming
| Title: The Giver
                Year: 1993 Pages: 240    Rating:8.6 Subject: Science Fiction
|

1. List all the books
2. Display the books sorted according to the year of publication
3. Sort the books according to length in pages, starting with the shortest
4. Sort the books according to review ratings, starting with the highest rating
5. Ask user for a subject, and display all the books belonging to that specific subject
6. Search for a specific book by name, and display all the details if the book exists
7. Add a book to the list of books (ask the user for all the details
8. Exit
6
Enter the Book Title
The Giver
Title: The Giver
                Year: 1993 Pages: 240    Rating:8.6 Subject: Science Fiction


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8. Exit
```

Project Explorer ⊠

- Maik Project 1
  - JRE System Library [JavaSE-1.8]
  - src
    - (default package)
      - BareBonesArrayList.java
        - BareBonesArrayList<E>
      - Books.java
      - DHArrayList.java
      - myUniLibrary.java

Books.java   myUniLibrary.java ⊠

```
115                 System.out.println("Was unable to find the Book: "+title);
116             }
117             break;
```

Task List ⊠

Outline ⊠
- myUniLibrary

Problems   @ Javadoc   Declaration   Console ⊠

myUniLibrary [Java Application] C:\Program Files\Java\jre1.8.0_171\bin\javaw.exe (Feb 24, 2019, 3:24:50 PM)

```
| Title: Book#1
                Year: 2014 Pages: 63    Rating:1.0 Subject: Programming
| Title: Book#11
                Year: 1984 Pages: 398   Rating:0.9 Subject: Gaming
| Title: Book#15
                Year: 2004 Pages: 468   Rating:0.5 Subject: Gaming
| Title: Book#18
                Year: 2009 Pages: 790   Rating:0.5 Subject: Gaming
| Title: The Giver
                Year: 1993 Pages: 240   Rating:8.6 Subject: Science Fiction
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7. Add a book to the list of books (ask the user for all the details
8. Exit
6
Enter the Book Title
The Giver
Title: The Giver
                Year: 1993 Pages: 240   Rating:8.6 Subject: Science Fiction


1. List all the books
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6. Search for a specific book by name, and display all the details if the book exists
7. Add a book to the list of books (ask the user for all the details
8. Exit
5
Enter the Subject:
Science Fiction
Title: The Giver
                Year: 1993 Pages: 240   Rating:8.6 Subject: Science Fiction


1. List all the books
2. Display the books sorted according to the year of publication
3. Sort the books according to length in pages, starting with the shortest
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7. Add a book to the list of books (ask the user for all the details
8. Exit
```

File Edit Source Refactor Navigate Search Project Run Window Help

Project Explorer

```
Maik Project 1
  JRE System Library [JavaSE-1.8]
  src
    (default package)
      BareBonesArrayList.java
        BareBonesArrayList<E>
      Books.java
      DHArrayList.java
      myUniLibrary.java
```

Books.java   myUniLibrary.java

```
115              System.out.println("Was unable to find the Book: "+title);
116          }
117          break;
```

Problems @ Javadoc Declaration Console

```
myUniLibrary [Java Application] C:\Program Files\Java\jre1.8.0_171\bin\javaw.exe (Feb 24, 2019, 3:24:50 PM)
6. Search for a specific book by name, and display all the details if the book exists
7. Add a book to the list of books (ask the user for all the details)
8. Exit
2
Sorted by Year (Acending)
 Title: Book#3
                Year: 1981 Pages: 341   Rating:8.0 Subject: Algorithms
 | Title: Book#2
                Year: 1982 Pages: 565   Rating:1.5 Subject: Operating Systems
 | Title: Book#8
                Year: 1983 Pages: 310   Rating:3.2 Subject: Data Structures
 | Title: Book#11
                Year: 1984 Pages: 398   Rating:0.9 Subject: Gaming
 | Title: Book#17
                Year: 1988 Pages: 702   Rating:6.6 Subject: Programming
 | Title: Book#12
                Year: 1989 Pages: 104   Rating:9.9 Subject: Operating Systems
 | Title: Book#14
                Year: 1990 Pages: 989   Rating:4.7 Subject: Data Structures
 | Title: Book#16
                Year: 1993 Pages: 263   Rating:5.2 Subject: Gaming
 | Title: The Giver
                Year: 1993 Pages: 240   Rating:8.6 Subject: Science Fiction
 | Title: Book#4
                Year: 1996 Pages: 487   Rating:6.5 Subject: Programming
 | Title: Book#6
                Year: 1998 Pages: 368   Rating:2.0 Subject: Algorithms
 | Title: Book#10
                Year: 2001 Pages: 265   Rating:2.3 Subject: Operating Systems
 | Title: Book#7
                Year: 2002 Pages: 957   Rating:4.0 Subject: Algorithms
 | Title: Book#15
                Year: 2004 Pages: 468   Rating:0.5 Subject: Gaming
 | Title: Book#18
                Year: 2009 Pages: 790   Rating:0.5 Subject: Gaming
 | Title: Book#9
                Year: 2010 Pages: 768   Rating:3.5 Subject: Data Structures
 | Title: Book#19
                Year: 2011 Pages: 559   Rating:4.9 Subject: Data Structures
 | Title: Book#20
                Year: 2013 Pages: 807   Rating:9.3 Subject: Programming
 | Title: Book#1
                Year: 2014 Pages: 63    Rating:1.0 Subject: Programming
 | Title: Book#13
                Year: 2015 Pages: 840   Rating:7.1 Subject: Data Structures
 | Title: Book#5
                Year: 2016 Pages: 400   Rating:6.1 Subject: Operating Systems
 |

1. List all the books
2. Display the books sorted according to the year of publication
3. Sort the books according to length in pages, starting with the shortest
```