```
> sh -c javac -classpath .:target/dependency/* -d . $(find . -type f -name '*.java')
Note: ./ArrayList.java uses unchecked or unsafe operations.
Note: Recompile with -Xlint:unchecked for details.
> java -classpath .:target/dependency/* Main
Options:
1. Display all books
2. Display books sorted by year of publication (starting with oldest)
3. Display books sorted by length in pages (starting with shortest)
4. Display books sorted by review ratings (starting with highest rating)
5. Search for a subject
6. Search for a specific book
7. Add a book
8. Exit
Select an option #: 1
Book1
Book2
Book3
Book4
Book5
Book6
Book7
Book8
Book9
Book10
Book11
Book12
Book13
Book14
Book15
Book16
Book17
Book18
Book19
Book20
Options:
1. Display all books
2. Display books sorted by year of publication (starting with oldest)
3. Display books sorted by length in pages (starting with shortest)
4. Display books sorted by review ratings (starting with highest rating)
5. Search for a subject
6. Search for a specific book
7. Add a book
8. Exit
Select an option #: 2
```

```
Book20
Book13
Book1
Book4
Book10
Book15
Book5
Book2
Book17
Book18
Book9
Book3
Book19
Book11
Book12
Book14
Book6
Book16
Book8
Book7
Options:
1. Display all books
2. Display books sorted by year of publication (starting with oldest)
3. Display books sorted by length in pages (starting with shortest)
4. Display books sorted by review ratings (starting with highest rating)
5. Search for a subject
6. Search for a specific book
7. Add a book
8. Exit
Select an option #: 3
Book4
Book6
Book19
Book7
Book12
Book18
Book2
Book9
Book13
Book8
Book17
Book15
Book16
Book14
```

```
Book5
Book3
Book11
Book10
Book1
Book20
Options:
1. Display all books
2. Display books sorted by year of publication (starting with oldest)
3. Display books sorted by length in pages (starting with shortest)
4. Display books sorted by review ratings (starting with highest rating)
5. Search for a subject
6. Search for a specific book
7. Add a book
8. Exit
Select an option #: 4
Book19
Book9
Book20
Book14
Book10
Book3
Book16
Book15
Book8
Book6
Book13
Book11
Book5
Book18
Book4
Book2
Book7
Book12
Book17
Book1
Options:
1. Display all books
2. Display books sorted by year of publication (starting with oldest)
3. Display books sorted by length in pages (starting with shortest)
4. Display books sorted by review ratings (starting with highest rating)
5. Search for a subject
6. Search for a specific book
7. Add a book
8. Exit
Select an option #: 5
Search for a subject: Programming
Book20
Book15
Book13
Book17
Options:
1. Display all books
2. Display books sorted by year of publication (starting with oldest)
3. Display books sorted by length in pages (starting with shortest)
4. Display books sorted by review ratings (starting with highest rating)
5. Search for a subject
6. Search for a specific book
7. Add a book
8. Exit
Select an option #: 6
Search for a book: Book2
Title: Book2
Subject: Operating Systems
Year Published: 1996
Total Pages: 385
Rating: 1.6
Options:
1. Display all books
2. Display books sorted by year of publication (starting with oldest)
3. Display books sorted by length in pages (starting with shortest)
4. Display books sorted by review ratings (starting with highest rating)
5. Search for a subject
6. Search for a specific book
7. Add a book
8. Exit
Select an option #: 7
Title: Book21
Subject: Algorithms
Year Published: 2005
Number of Pages: 180
Review Rating (1.0-10.0): 7.6
Book added!
Options:
1. Display all books
2. Display books sorted by year of publication (starting with oldest)
3. Display books sorted by length in pages (starting with shortest)
4. Display books sorted by review ratings (starting with highest rating)
```

```
  5. Search for a subject
  6. Search for a specific book
  7. Add a book
  8. Exit
Select an option #: 8
>
```

```
> sh -c javac -classpath .:target/dependency/* -d . $(find . -type f -name '*.java')
Note: ./ArrayList.java uses unchecked or unsafe operations.
Note: Recompile with -Xlint:unchecked for details.
> java -classpath .:target/dependency/* Main
Options:
1. Display all books
2. Display books sorted by year of publication (starting with oldest)
3. Display books sorted by length in pages (starting with shortest)
4. Display books sorted by review ratings (starting with highest rating)
5. Search for a subject
6. Search for a specific book
7. Add a book
8. Exit
Select an option #: 1
Book1
Book2
Book3
Book4
Book5
Book6
Book7
Book8
Book9
Book10
Book11
Book12
Book13
Book14
Book15
Book16
Book17
Book18
Book19
Book20
Options:
1. Display all books
2. Display books sorted by year of publication (starting with oldest)
3. Display books sorted by length in pages (starting with shortest)
4. Display books sorted by review ratings (starting with highest rating)
5. Search for a subject
6. Search for a specific book
7. Add a book
8. Exit
Select an option #: 2

Book15
Book7
Book9
Book4
Book2
Book8
Book17
Book10
Book14
Book20
Book5
Book16
Book11
Book12
Book6
Book18
Book19
Book13
Book1
Book3
Options:
1. Display all books
2. Display books sorted by year of publication (starting with oldest)
3. Display books sorted by length in pages (starting with shortest)
4. Display books sorted by review ratings (starting with highest rating)
5. Search for a subject
6. Search for a specific book
7. Add a book
8. Exit
Select an option #: 3
Book4
Book3
Book5
Book14
Book13
Book9
Book10
Book8
Book1
Book17
Book12
Book2
Book11
Book6
```

```
8. Exit
Select an option #: 5
Search for a subject: Programming
Book6
Book19
Book15
Book9
Options:
1. Display all books
2. Display books sorted by year of publication (starting with oldest)
3. Display books sorted by length in pages (starting with shortest)
4. Display books sorted by review ratings (starting with highest rating)
5. Search for a subject
6. Search for a specific book
7. Add a book
8. Exit
Select an option #: 5
Search for a subject: Algorithms
Book14
Book4
Book13
Book17
Book11
Options:
1. Display all books
2. Display books sorted by year of publication (starting with oldest)
3. Display books sorted by length in pages (starting with shortest)
4. Display books sorted by review ratings (starting with highest rating)
5. Search for a subject
6. Search for a specific book
7. Add a book
8. Exit
Select an option #: 5
Search for a subject: Data Structures
Book7
Book12
Book20
Book3
Options:
1. Display all books
2. Display books sorted by year of publication (starting with oldest)
3. Display books sorted by length in pages (starting with shortest)
4. Display books sorted by review ratings (starting with highest rating)
5. Search for a subject
6. Search for a specific book
7. Add a book
8. Exit
Select an option #: 5
Search for a subject: Operating Systems
Book8
Book2
Book1
Book5
Book10
Options:
1. Display all books
2. Display books sorted by year of publication (starting with oldest)
3. Display books sorted by length in pages (starting with shortest)
4. Display books sorted by review ratings (starting with highest rating)
5. Search for a subject
6. Search for a specific book
7. Add a book
8. Exit
Select an option #: 5
Search for a subject: Gaming
Book18
Book16
Options:
1. Display all books
2. Display books sorted by year of publication (starting with oldest)
3. Display books sorted by length in pages (starting with shortest)
4. Display books sorted by review ratings (starting with highest rating)
5. Search for a subject
6. Search for a specific book
7. Add a book
8. Exit
Select an option #: 6
Search for a book: Book5
Title: Book5
Subject: Operating Systems
Year Published: 2001
Total Pages: 129
Rating: 4.5
Options:
1. Display all books
2. Display books sorted by year of publication (starting with oldest)
3. Display books sorted by length in pages (starting with shortest)
4. Display books sorted by review ratings (starting with highest rating)
```

```
5. Search for a subject
6. Search for a specific book
7. Add a book
8. Exit
Select an option #: 6
Search for a book: Book10
Title: Book10
Subject: Operating Systems
Year Published: 1991
Total Pages: 278
Rating: 1.0
Options:
1. Display all books
2. Display books sorted by year of publication (starting with oldest)
3. Display books sorted by length in pages (starting with shortest)
4. Display books sorted by review ratings (starting with highest rating)
5. Search for a subject
6. Search for a specific book
7. Add a book
8. Exit
Select an option #: 6
Search for a book: Book15
Title: Book15
Subject: Programming
Year Published: 1980
Total Pages: 731
Rating: 4.7
Options:
1. Display all books
2. Display books sorted by year of publication (starting with oldest)
3. Display books sorted by length in pages (starting with shortest)
4. Display books sorted by review ratings (starting with highest rating)
5. Search for a subject
6. Search for a specific book
7. Add a book
8. Exit
Select an option #: 7
Title: Book21
Subject: Gaming
Year Published: 2020
Number of Pages: 365
Review Rating (1.0-10.0): 8.9
Book added!
Options:

1. Display all books
2. Display books sorted by year of publication (starting with oldest)
3. Display books sorted by length in pages (starting with shortest)
4. Display books sorted by review ratings (starting with highest rating)
5. Search for a subject
6. Search for a specific book
7. Add a book
8. Exit
Select an option #: 8
>
```