src\main\java\shelf\ShelfMain.java

```java
1   package shelf;
2
3   import static java.lang.System.out;
4
5   public class ShelfMain {
6
7     private static void printShelf(Shelf<?> shelf){
8
9       for (ShelfItem item : shelf)
10        out.println(item);
11
12    }
13
14
15
16    public static void main(String[] args) {
17      Shelf<Book> bookShelf = new Shelf<>();
18      bookShelf.setUpperLeft(new Book("Ullenbloom", "Java ist auch eine Insel", 1246));
19      bookShelf.setUpperRight(new Book("Schuld", "Ferdinand von Schirach", 208));
20      bookShelf.setLowerRight(new Book("Bibi und Tina", "Matthias von Bornstädt", 34));
21
22      out.println("bookShelf:");
23      printShelf(bookShelf);
24
25      Shelf<Tool> toolShelf = new Shelf<>();
26      toolShelf.setUpperLeft(new Tool("Schraubenzieher"));
27      toolShelf.setLowerRight(new Tool("Säge"));
28
29      out.println("toolShelf:");
30      printShelf(toolShelf);
31
32      // takeFrom
33      Shelf<Book> newBookShelf = new Shelf<>();
34      newBookShelf.takeFrom(bookShelf);
35
36      out.println("newBookShelf:");
37      printShelf(newBookShelf);
38
39      Shelf<ShelfItem> generalShelf = new Shelf<>();
40      generalShelf.takeFrom(newBookShelf);
41
42      out.println("generalShelf:");
43      printShelf(generalShelf);
44
45      // max
46      bookShelf.setUpperLeft(new Book("Ullenbloom", "Java ist auch eine Insel", 1246));
47      bookShelf.setUpperRight(new Book("Schuld", "Ferdinand von Schirach", 208));
48      bookShelf.setLowerRight(new Book("Bibi und Tina", "Matthias von Bornstädt", 34));
49
50      Book maxPages = bookShelf.max((lhs,rhs) -> lhs.getPages()-rhs.getPages());
51
52
53
54      out.println("maxPages: " + maxPages);
55
56      // transferAndTrim
57      Shelf.transferAndTrim(bookShelf, newBookShelf);
```

```java
58        Shelf.transferAndTrim(toolShelf, generalShelf);
59
60      out.println("generalShelf:");
61      printShelf(generalShelf);
62
63
64
65    }
66  }
67
```