```
Ethan Kreloff
Homework 1 Part 2
00 Analysis and Design, Boese
1.
A.
/* UserUtility.java
* Created by Ethan Kreloff on January 30th, 2015
*/
public class UserUtility
 static String createUsername(String firstName, String lastName){
  return firstName.substring(0,3) + lastName.substring(lastName.length() - 3,
lastName.length());
 }
}
B.
/* Driver1.java
* Created by Ethan Kreloff on January 30th, 2015
import java.util.*;
public class Driver1
 public static void main(String[] args)
 System.out.println(UserUtility.createUsername("Liz", "Boese"));
}
C.
```

```
Ethan-Kreloffs-MacBook-Pro:HW1 EKreloff$ java Driver1
Lizese
Ethan-Kreloffs-MacBook-Pro:HW1 EKreloff$
```

```
A.
/* Media.java
* Modified by Ethan Kreloff on January 30th, 2015
abstract class Media implements Comparable<Media>
 protected String title;
        public String getTitle() { return title; }
}
В.
/* Book.java
* Modified by Ethan Kreloff on January 30th, 2015
*/
class Book extends Media implements Comparable < Media >
  private String author;
 public Book(String title, String author)
    this.title = title;
    this.author = author;
 }
        public String getAuthor() { return author; }
  public String toString()
    return getTitle() + " by " + getAuthor();
        }
  public int compareTo(Media book) {
   if(book instanceof Book){
    Book otherBook = (Book) book;
    if (this.title.equals(otherBook.title))
     if(this.author.equals(otherBook.author))
      return 0:
     else if(this.author.compareTo(otherBook.author) > 0)
      return 1;
     else
      return -1;
    else if (this.title.compareTo(otherBook.title) > 0)
     return 1;
    else
     return -1;
```

```
if(book instanceof DVD){
    return 1;
   return 0;
}
C.
/* DVD.java
* Modified by Ethan Kreloff on January 30th, 2015
class DVD extends Media implements Comparable < Media >
 private int year;
  public DVD(String title, int year)
    this.title = title;
    this.year = year;
 }
        public int getYear() { return year; }
  public String toString()
    return year + ": " + title + " [DVD]";
        }
  public int compareTo(Media dvd) {
   if(dvd instanceof DVD){
    DVD otherDVD = (DVD) dvd;
    if (this.title.equals(otherDVD.title))
     if(this.year == otherDVD.year)
      return 0:
     else if(this.year > otherDVD.year)
      return 1;
     else
      return -1;
    else if (this.title.compareTo(otherDVD.title) > 0 )
     return 1;
    else
     return -1;
```

```
if(dvd instanceof Book){
   return -1;
  return 0;
}
D.
Ethan-Kreloffs-MacBook-Pro: HW1 EKreloff$ java Driver
1999: Dare to go Solo [DVD]
2000: Dare to go Solo [DVD]
2006: Dare to go Solo [DVD]
2012: Dare to go Solo [DVD]
1970: Intro to Programming [DVD]
2011: Intro to Programming [DVD]
Dare to go Solo by Elizabeth Boese
Dare to go Solo by Wise Travelguy
Intro to Programming with Java Applets by Elizabeth Boe
Intro to Programming with Java Applets by Elizabeth Boese
Ethan-Kreloffs-MacBook-Pro:HW1 EKreloff$
```