


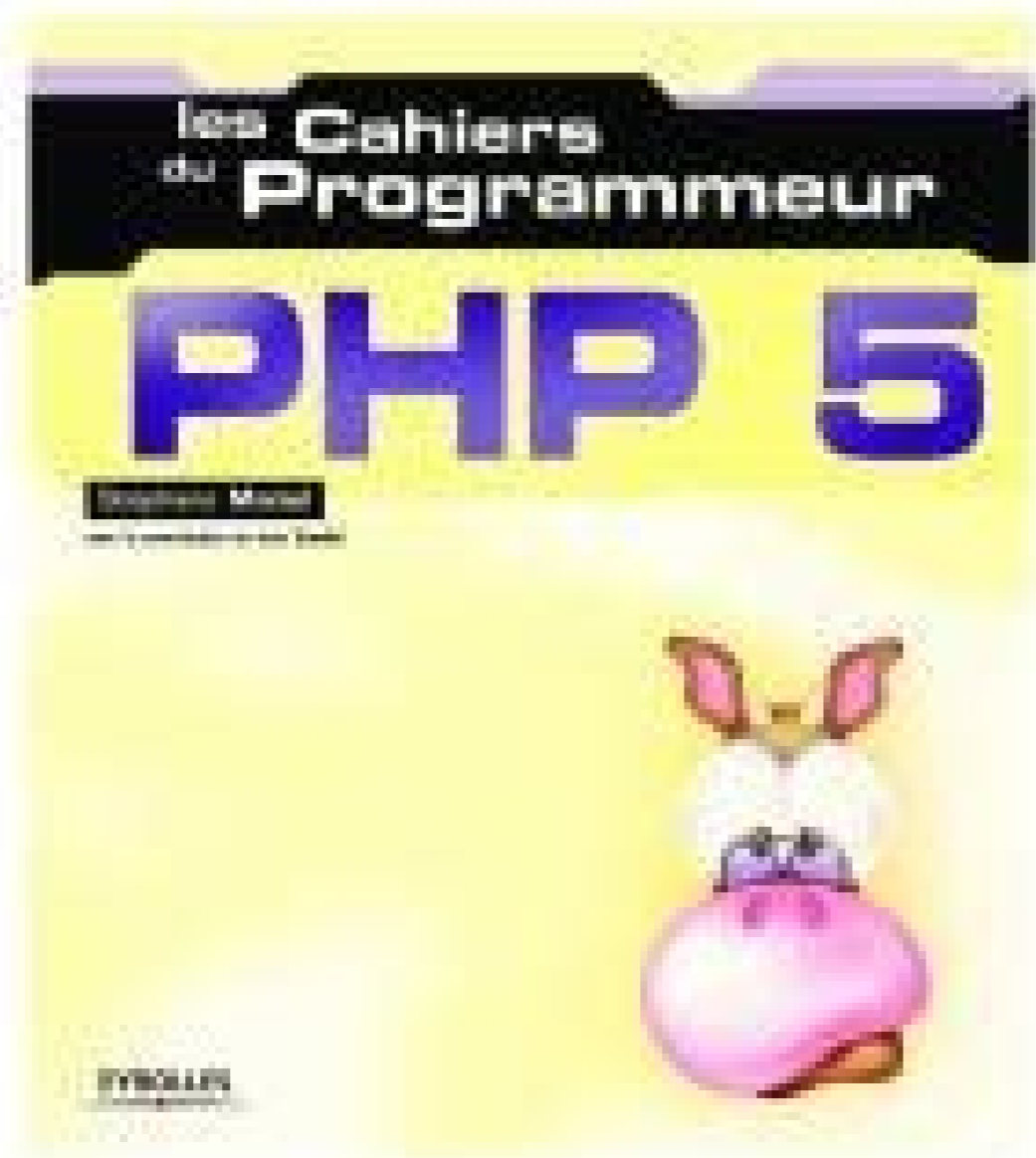
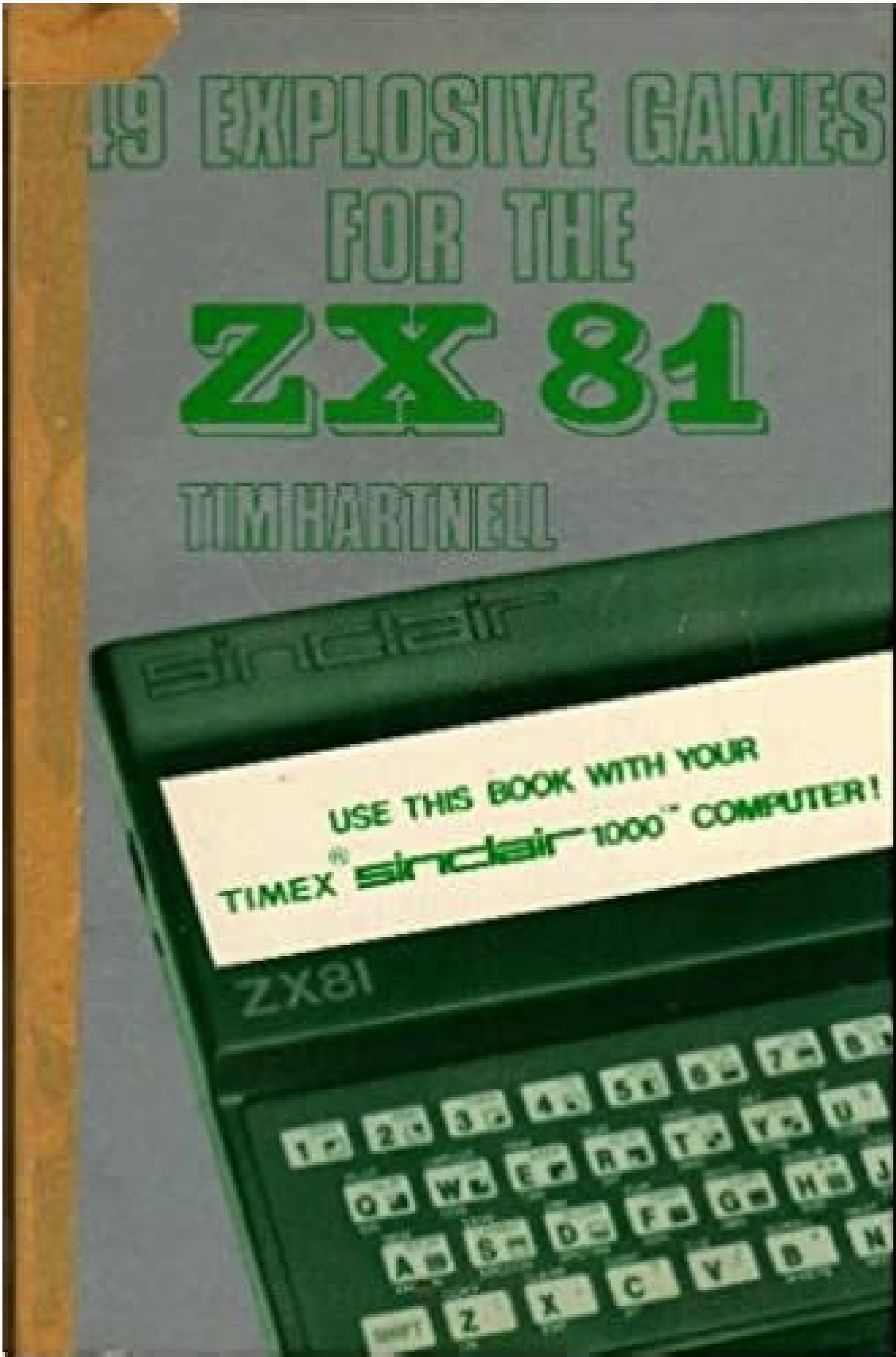
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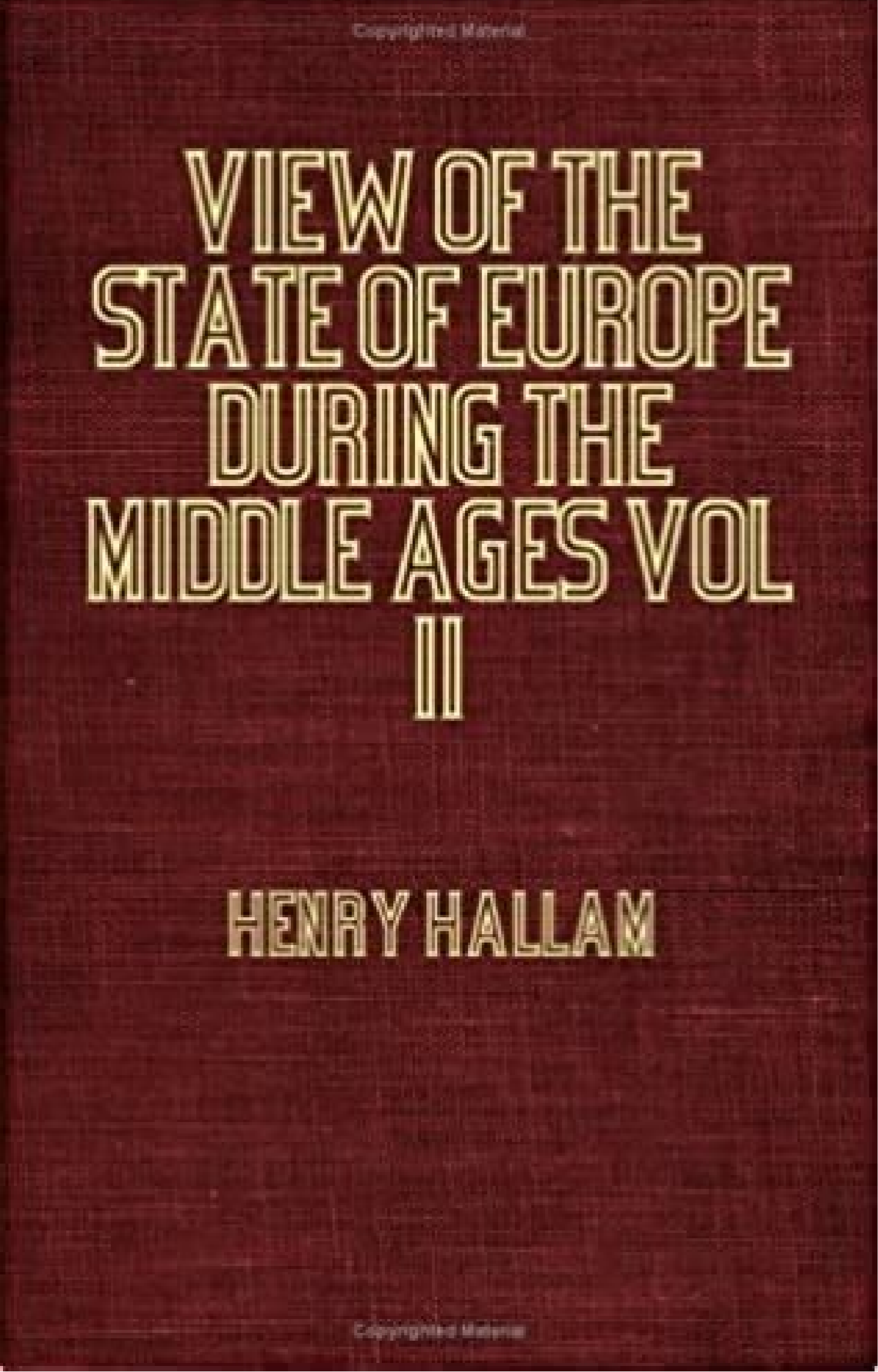
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Objects first with java 6th edition online.

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operation that will "collapse" its input stream to just a single object or value, and then the function of the reduce method, which is a terminal operation. M15 BARN7367 06 SE C15.indd 570 4/11/16 3:45 PM v5.17 Using design patterns | 571 Second, design patterns have names and thus establish a vocabulary that helps software designers talk about their designs. If we need to define what it means for two objects to be equal according to their internal states, then we must override the equals method, then allows us to write tests such as var1.equals(var2). This is because the equals method inherited from the Object class actually makes a test for reference equality. J2.6 Use a space character to separate the words in the code. M11 BARN7367 06 SE C11.indd 404 4/11/16 3:35 PM 11.8 Object equality: equals and hashCode | 405 In fact, the method does work as expected. Exercise 2.69 Write out a constructor for a class called Person. These initial steps of developing a software system are generally referred to as analysis and design. This distinction between the interface and the implementation is a very important concept, and it will surface repeatedly in this and later chapters of this book. Hint: Use a conditional statement whose test calls the length method on the reNumber string. It is an absolute rule in Java that a constructor may not have a return type. This project contains a version of the network application, rewritten to use inheritance, as described above. The details we want to store for each message post are: ■ the username of the author ■ the filename of the image to display ■ the caption for the photo (one line of text) ■ a time stamp (time of posting) ■ how many people like this post ■ a list of comments on this post by other users 10.1.1 The network project: classes and objects To implement the application, we first have to decide what classes to use to model this problem. Student other = (Student) obj; return name.equals(other.name) & id.equals(other.id) & credits == other.credits; } The first test is just an efficiency improvement; if the object has been passed a reference to itself to compare against, then we know that content equality must be true. The one that generates a random integer number is called nextInt. In order to be eligible to participate in serialization, a class must implement the Serializable interface that is defined in the java.io package. Why do you think that these methods are not included in List? The Iterator method in this example is the Factory method. It should be avoided. In the following sections, we shall show how arrays are used to store data. Process of collections d and c Figure 5.4 | Line of strea functions "Elephant" 3 "Tiger" 1 "Snake" 3 "Elephant" 1 filter "Elephant" 3 map 3 "Elephant" 1 "Elephant" 4 4 reduce 8 "Elephant" 4 "Parrot" 5 We can write this, using pseudo-code, as follows: sightings.filter(name == "elephant").map(count).reduce(addup); This is not correct Java syntax, but you get the idea. The solution is simple. M05 BARN7367 06 SE C05.indd 197 4/11/16 3:13 PM This page intentionally left blank Chapter 6 More-Sophisticated Behavior Main Concepts discussed in this chapter: ■ using library classes ■ reading documentation ■ writing documentation Java constructs discussed in this chapter: String, Random, HashSet, HashSet, Iterator, static, final, autoboxing, wrapper classes In Chapter 4, we introduced the class ArrayList from the Java class library. When you work with existing code written by other programmers (as you will most of the time), it is essential that you understand and can work with the imperative style. Exercise 2.26 Write an accessor method getTol in the TicketMachine class. To understand how this works, it might be useful to look at the code for adding all counts as if we were writing it in the traditional way. Include an accessor, getBorrowed, that returns the value of this new field as its result. For instance, a required data file may have been accidentally M14 BARN7367 06 SE C14.indd 544 4/11/16 3:43 PM It is used in out ut | 545 deleted or have become corrupted in some way, before the application is run; or an attempt to store results to the file system may be thwarted by lack of appropriate permissions or exceeding a file-system quota. All pixels that are in the upper-third value range for brightness will be turned white, all that are in the lower-third will be turned black, and the middle third will be gray. Exercise 12.12 Are there other simplifications that you feel are present in the implementation of the Rabbit class, compared with real life? It is a good idea to always include a final else part, menu bar, content pane Components are used to create a graphical user interface. PhotoPost object. Exercise 5.5: Open the animal-monitoring-v1 project and rewrite the printList method on the AnimalMonitor class to use an lambda, as shown in o e Test that it still works and error's the se a e of exercise 5.4.1 Variations of lambda syntax One goal of the lambda syntax in Java is to allow us to write code clearly and concisely. This uses two different write methods: one to write a string, and one to write a character. The exact type rarely matters in any given situation. Add a class for event posts to the project. Exercise 5.27 Write a method that takes an animal name and spotter ID and returns the first sighting object stored in the sightings collection for that combination. Inner classes are discussed in Section 13.8. 13.4.8 Summary of GUI elements At the beginning of this chapter, we listed the three areas of GUI construction: components, layout, and event handling. Do the hunters remain in the simulation throughout, or do they ever disappear? 2.6 Assignment In the previous section, we noted the need to copy the short-lived value stored in a parameter variable into somewhere more permanent—a field variable. In this figure, we have defined accessor and mutator methods for those fields that may change over time ("liking" or "unliking" a post and adding a comment) and assume for now that the other fields are set in the constructor. M14 BARN7367 06 SE C04.indd 142 4/11/16 3:10 PM 4.8 Processing a whole collection | 143 4.8.1 Summary of the music organizer We have made good progress with the basics of organizing our music collection. When the company receives a call from an individual, hotel, entertainment venue, or tourist organization, it tries to schedule a vehicle to pick up the fare. Which of these objects would the timeTick method interact with? This second example is a music-player application. A01 BARN7367 06 SE C16.indd 15 4/5/16 6:10 PM 15.6 Preface With functional language constructs, it is possible to automate some concurrency very efficiently. Replace the label in the example above with a button. The class File is a concrete class that represents a file on the file system. It is a good idea to always include a final else part, menu bar, content pane Components are used to create a graphical user interface. extensible class structures are not always easy to design. In Java applications, the default behavior is to attach the menu bar to the window. All buttons that have no function at any point in time should be grayed out at that time, and should be enabled only when they can reasonably be used. A facsimile ticket should be printed in the BlueJ terminal window. Make one big and yellow; make another one small and green. If we now abstract away from that very low-level view, we can see that it could also be viewed as two separate two-digit displays (one pair for the hours and one pair for the minutes). Each location in the array is used to represent an access count for the corresponding hour. 6.6.2 Using a HashMap as a particular implementation of Map. In contrast, the scope of a field is the whole of the class definition—it can be accessed from anywhere in the same class. We shall see this in the next section. 203 BARN7367 06 SE APPC.indd 607 4/11/16 3:51 PM This page intentionally left blank Appendix D D.1 Java Control Structures Control structures affect the order in which statements are executed. If we need an additional menu item, we just add code to create the item and the lambda that handles its function. Get used to recognizing when scopes look wrong. Objects of class EventPost will inherit the username and timestamp, but not the comments. Between two integer values, division yields an integer result and discards any remainder, but between floating-point values, a floating-point value is the result: 5 / 3 gives a result of 1.50 / 3 gives a result of 1.6666666666666667 (Note that only one of the operands needs to be of a floating-point type to produce a floating-point result.) When more than one operator appears in an expression, then rules of precedence have to be used to work out the order of application. When activated, it presents a file-selection dialog that lets the user choose a sound file to play. Reading and understanding the documentation is the first part of our introduction to library classes. 2.19 Self-review exercises Exercise 1.10: Write a method that takes a string and returns a boolean value indicating whether the string is a palindrome. 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