

H03: Due Thu 04/14, in LECTURE 50 hwk pts

(BUT... you'll understand lab03 better if you do it before Wednesday...)

Reading assignment for H03

Read:

- HFJ, Chapter 3 (especially pages 59-62) and reading notes at HFJ:Chapter_3
- HFJ, Chapter 17 and reading notes at HFJ:Chapter_17
- To emphasize: if there are reading notes on the wiki for the assigned chapters, consult those too—sometimes they contain helpful hints.

Why are we skipping ahead?—I know that students sometimes get nervous when we "skip ahead" in the textbook, so I try to do it only when there's a really good reason. This week, there is.

The material on p. 560 really should have come right next to p. 86 in my opinion—it is about the difference between `==` and `.equals()`, which is a very common source of errors among beginning (and advanced) Java programmers. So we are going to move it where it should have been all along (IMHO).

The material in Chapter 17 is all about "Releasing your Code"—i.e. making it available to the rest of the world. It doesn't really depend on any of the material in Chapters 5-16 (at least not very much.) And since the emphasis in this course is on producing "open source" software, I want to be sure that we are comfortable with making JAR files and putting our code in packages (and eventually with Java Web Start too.) Chapter 17 should help make some of what we've done in lab with those topics a bit more clear.

After finishing the reading, answer these questions:

(1) 8 pts: Fill in the information below

name:		lab section (circle one):	6:30pm 7:30pm
email address:		csil username:	

(2) (4 pts) Based on your reading in HFJ Chapter 17:

To be able to run a jar file directly with `java -jar blah.jar` it is necessary for the jar file to contain a "manifest". What **is** a manifest, and **what information** does it contain?

(3) (4 pts) From Chapter 17: Briefly, what is the purpose of having multiple "packages" in Java?

(4) (4 pts) From Chapter 17: How do you indicate in the source code that a class is part of a package?

(5) (4 pts) From Chapter 17: Briefly, what is the purpose of Java Web Start?

(6) (4 pts) From Chapter 17: What is the file extension used for the file that contains the XML formatted data needed for Java Web Start to launch a file?

(7) Based on your reading in HFJ Chapter 3, p. 59-62 and HFJ Chapter 4 p. 84:

- (4 pts) Suppose I have a class called `Student`. How do I declare and allocate space for a plain old Java array called `students` that can hold 5 references to `Student` objects?

- (4 pts) Java `for` loops look pretty much just like C++ `for` loops (see HFJ page **10** if you really need to check. Given that, assuming there is a default constructor `student()` that you can call to create a new `student` object, write a `for` loop that initializes all of the elements of the array `students` (from the previous problem) to be instances of the `student` class.

- (4 pts) In C++, the name of a plain old array of `student` objects is not an object, but is rather a pointer to a `student` (i.e. it is of type `student *`. What about in Java—is an array an object, yes or no?

Retrieved from "<https://foo.cs.ucsb.edu/56wiki/index.php/S11:Homework:H03>"

- This page was last modified on 11 April 2011, at 21:10.
- Content is available under Attribution-NonCommercial-ShareAlike 3.0 Unported.