

field. Java does have a built-in class for IP addresses, which would give us some

more features if we wanted to actually connect to that address, for example. But we

don't need that functionality and we don't need to worry about the complexity that

date. You could use a string for that in which case, you would just have its text or you

could use the built-in Java Date class, which understands what dates and times are and

how they relate to each other. So you could check if one time is before or after another

For the request, you can just use a string. And for the status and number of bytes,

Now that we've gotten through these types, it's time to turn this into some Java

class LogEntry and written fields based on the types that we just discussed.

code. Here you can see the start of a Java class for a LogEntry, we've declared a public

You should now think, should each of these fields be public or private? Remember that

if a field is public, any piece of code can access it. <u>If a field is private, only code within</u>

In this particular case, it makes sense to have each of these be private and to design

your class to be immutable. Remember, from earlier when we learned about strings

be read. To make anything able to read these fields, you'll write a public getter

or accesser method such as these, which will just return the value of that field,

The other is to have the constructor take each piece of information separately

one, just making a constructor that looks like this, which is going to fill in the

fields based on the information passed down with each piece being passed

method for you, so you can just use it to read the file.

and simply initialize the fields of the object. We're going to have you do the second

separately. Why would you do it this way? Well, this gives you a little more flexibility if

you wanted to create one of these objects from some other source of information you

could do so. It turns out that pulling this line apart is actually a little bit tricky, so we're

gonna give you the code for that. It's a little bit ugly and we'll package it up into a nice

Here is the final log entry class with all of the things you just learned about. You would

use this to represent one of these log entries as you work with it. So your next task is

going to be to use this class, the code we give you to split this up into each separate

piece and put them together to make code that's going to read the entire log file.

that immutable means, you cannot modify an object once you create it. So you're going

to write this class, so that each of these fields will be set in its constructor, but can only

but there will be no way to set the value of the field once its constructed. Speaking of

could do it. The first is to take in this entire string and then I have the constructor pull it

apart into each of these individual pieces and fill in the fields or instance variables of

constructing, you need to write a constructor for this class. There are two ways you

those are both numbers, so you can use an int.

this particular class can access it.

would introduce right now. We don't need to represent the two fields that we've

omitted that have no useful information. We do, however, want to represent the

time.

3:43

3:52

4:10

4:25

the class.

5:23

6:07