# Array of Objects

# Announcements

Exam II, Next week on Thursday, review a week from tomorrow! Will include up to today's lecture.

Topics:
- ◦ Object reference
- ◦ Array of objects
- ◦ The Object class (notion of inheritance)
- ◦ Printed representation of objects (toString)

Reading: follow the lecture notes closely and use textbook as a reference
- ◦ Think Java: Chapter 9, 10, 11, and 12

# What is an object reference?

See object_reference.txt

# Array of objects

See array_of_objects.txt

# Printed representation of an object

When you run UseStudent.java, each student object is printed in some obscure form.

Where is it being printed in that example?
- See printArray in ArrayTools.java
- There is one that takes an array of Students as a parameter.

What is being printed when you print a student object?
- To answer this question, we need to understand the class named Object in Java.
- See next slide.

# The Object class

See java.lang.Object on the Java Documentation website

In it you will find 11 methods, but we will only care about two of those in CSE 114 and they are:
◦ toString
◦ equals

# String representation of an object

We just saw Object in the Java Documentation website

Let's use toString of Object

See Loan.java and UseLoan.java

# Parallel arrays

If we did not have the notion of an object, parallel arrays are what we would be using.

It is not a good way to do it, but I will briefly mention it to illustrate the point in class.