

# Equality and Parameter Passing

CSE 114 INTRODUCTION TO OBJECT-ORIENTED PROGRAMMING

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## Announcements

### Exam II:

- One week from tomorrow
- Covers through arrays of objects.

### Assignments

- Assignment 6 will be posted Friday
- Assignment 5 is due midnight on Friday

### Topics:

- Equality testing with objects
- Passing an object as a parameter to a function
- Returning an object as the return value of a function

Reading: follow the lecture notes closely and use textbook as a reference: 9, 10, 11, 12

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## Comparing 2 objects for equality

See [Object](#) from Java documentation

Use `==` or `equals`?

See [Equality.java](#)

See [Student.java](#) and [UseStudent.java](#)

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## Parameter passing with objects

How to pass an object to a method as a parameter:

- See [UseStudent.java](#)

How to return an object as the return value of a method:

- See [UseStudent.java](#)

How to allow an object to be shared by multiple object references:

- See [UseStudent.java](#)

What happens if you change the state of an object in a method after an object is passed in on a method call as an argument? That is, does the change persist when the method exits (returns)?

- See [UseStudent.java](#)

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## A subtle issue. . .

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Distinction between changing the state of an object and changing the reference into an object:

- See [UseStudent.java](#)