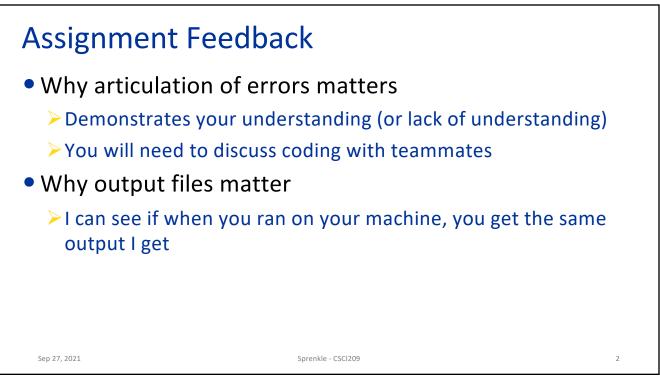
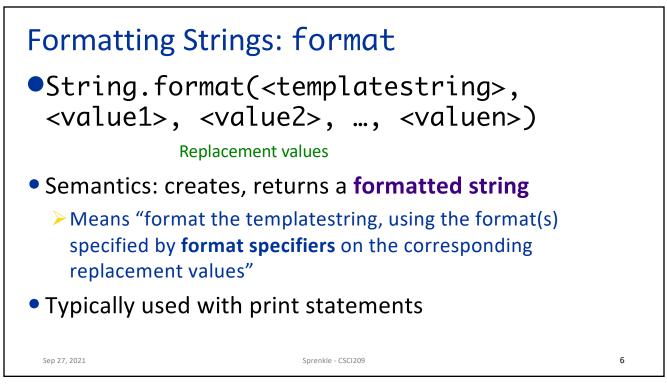
Objectives		
 Formatting Enforcing encaps 	sulation: Cloning	
Parameter passi	ng	
 Garbage collection 	on	
Sep 27, 2021	Sprenkle - CSCI209	1
1		

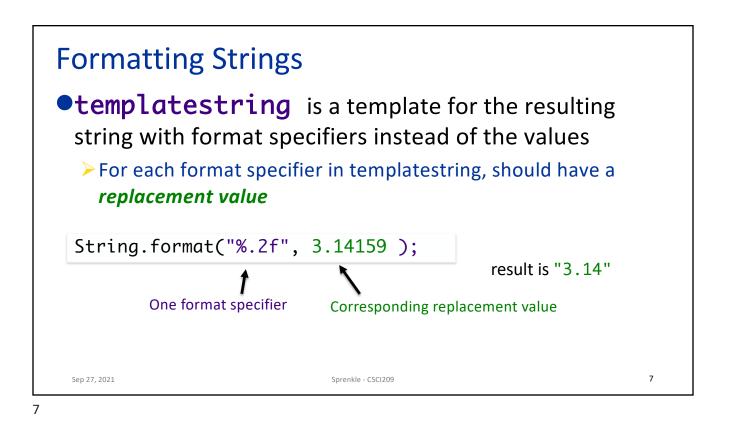


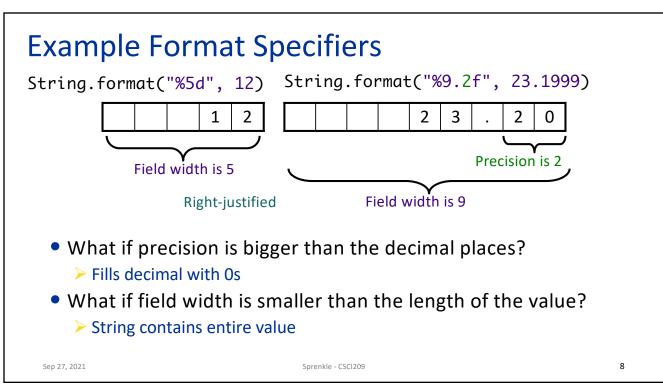
Assignment 4		
	n design in Birthday and BirthdayParadox	
Lots of different c		
Many more incorr	ect or too-complicated designs	
 Consider 		
If a variable should	d be a local variable, instance variable, or class variable	
API for the methor returned?)	ds: What is its input? What is its output (what is	
• Test small parts!		
 Use git well 		
When are good po	pints to checkpoint (commit) or make a new branch?	
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3		

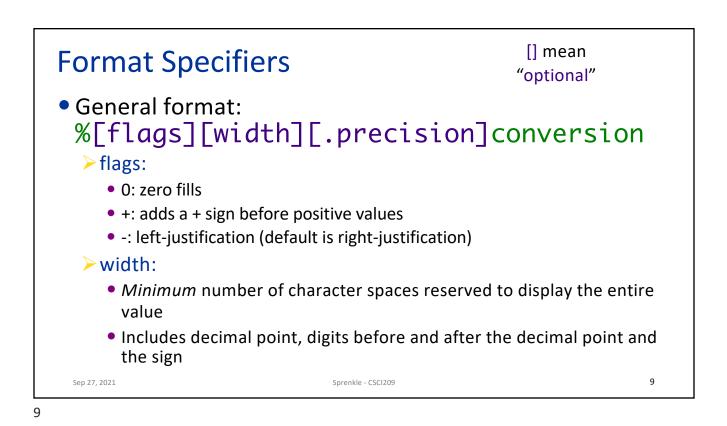
Review			
 What is overloading? > Why would we want to overload What is overriding? 	a method?		
 How do we make an instance construction? 	variable unchangeable after		
 How do we call a constructor w What is the root of the Java classical we implied the should be sho	ass hierarchy?		
 What method should we implement to allow pretty printing of objects we define? What method should we implement for determining if two objects 			
are equivalent?	ement for determining if two objects		
Sep 27, 2021 Spr	enkle - CSCI209 4		

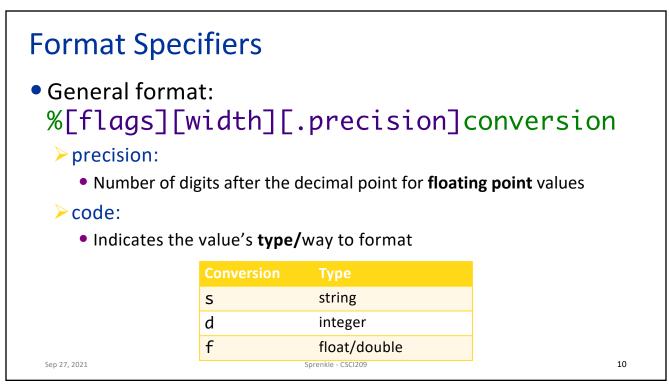
FORMATTING		
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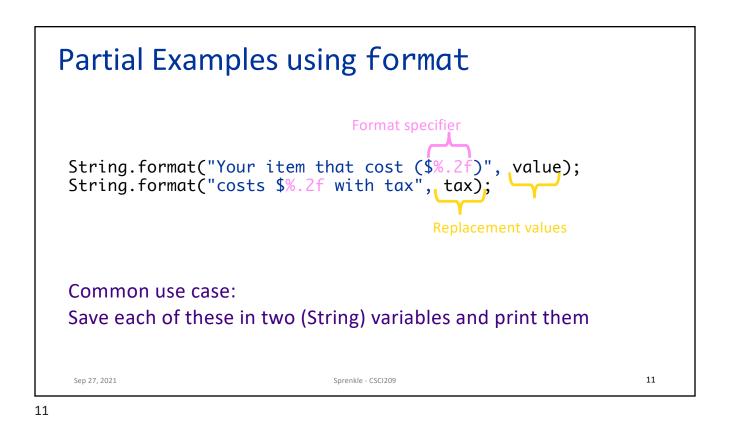


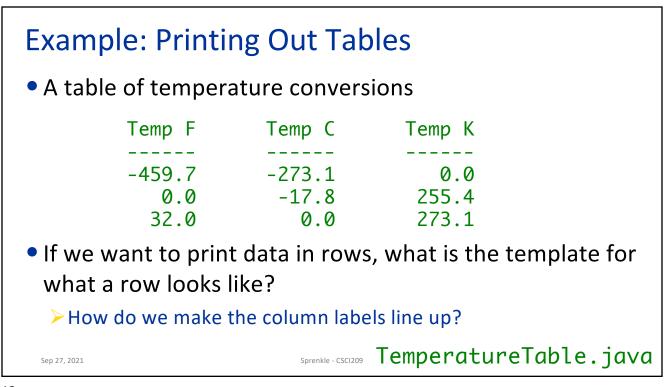


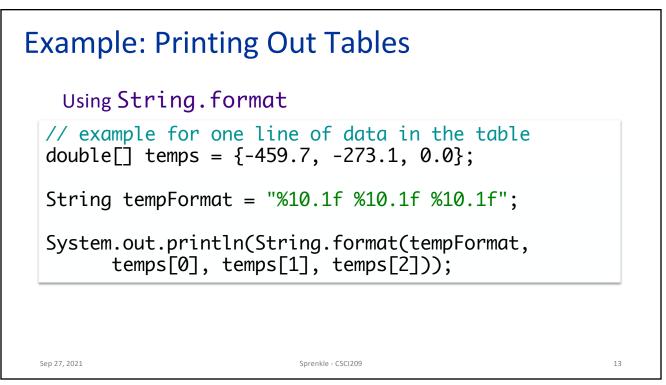


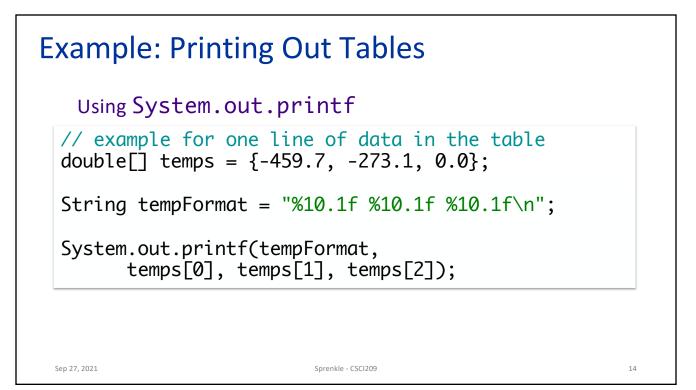


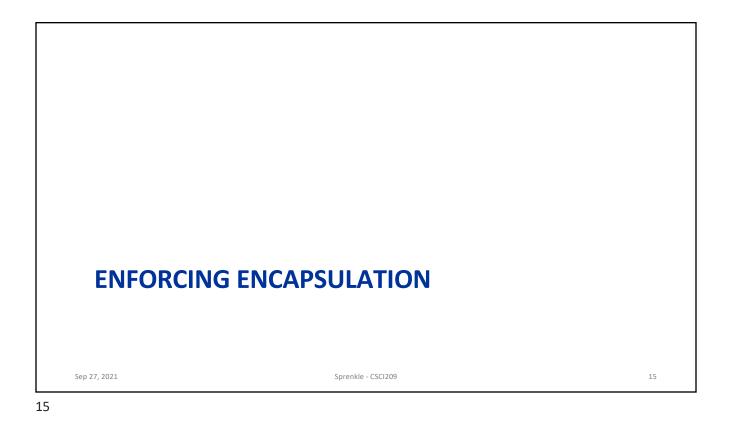


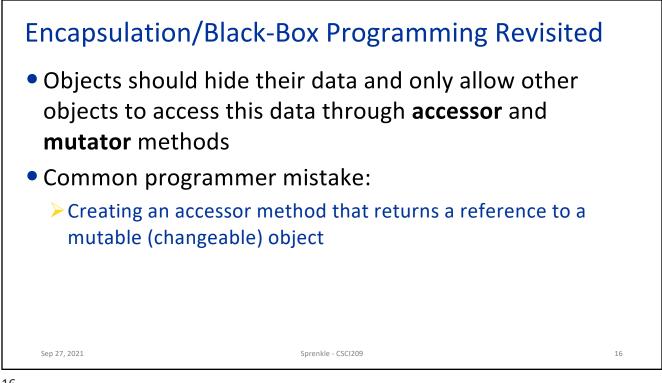


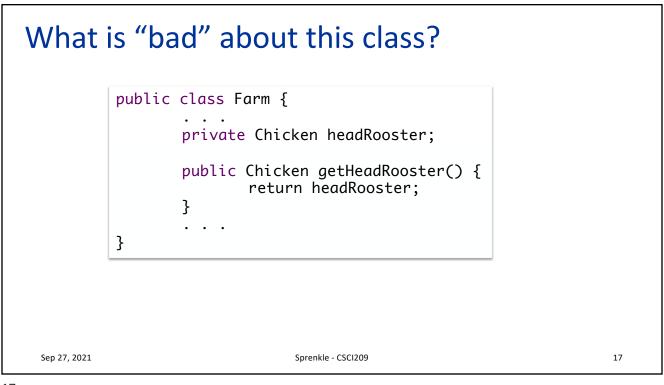




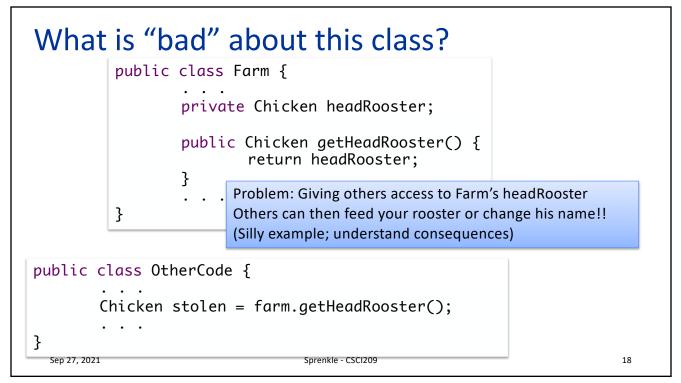


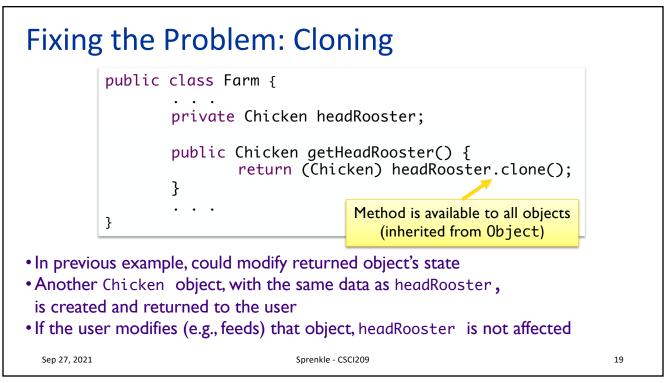


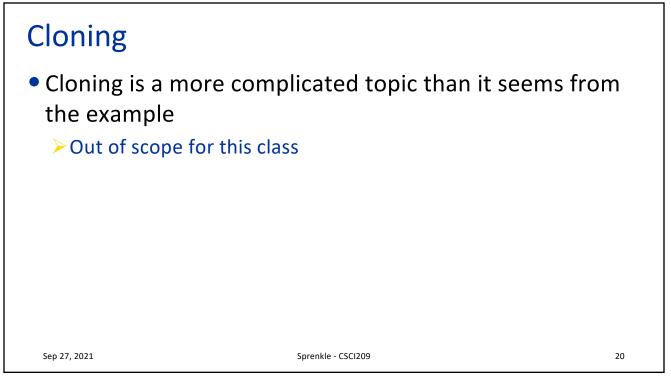


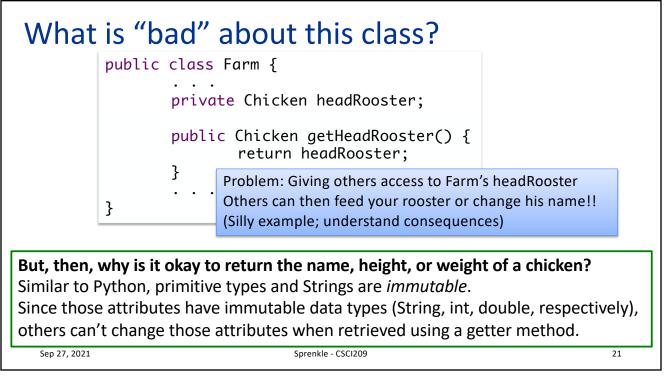


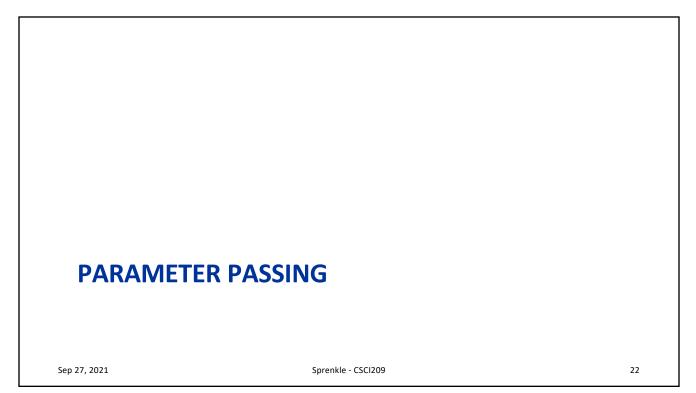


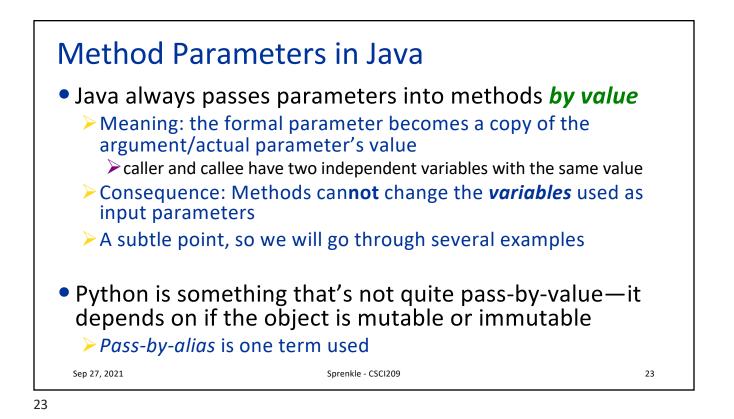


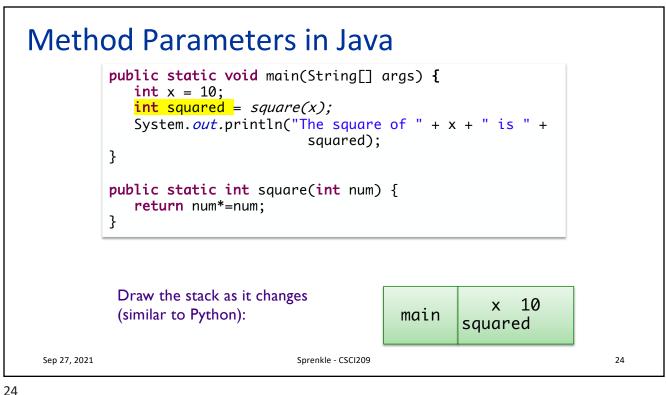


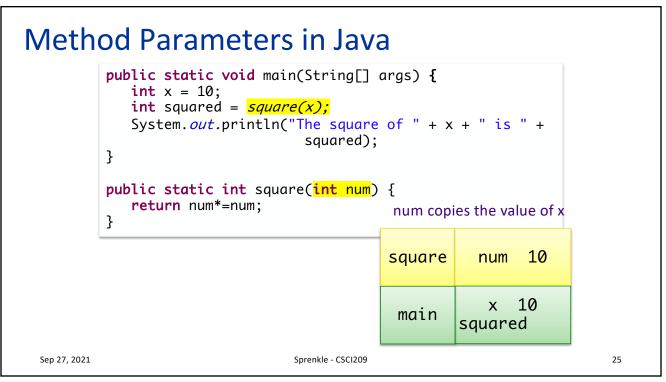


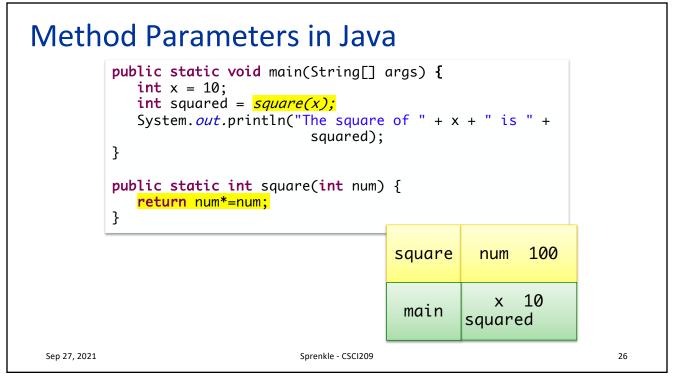


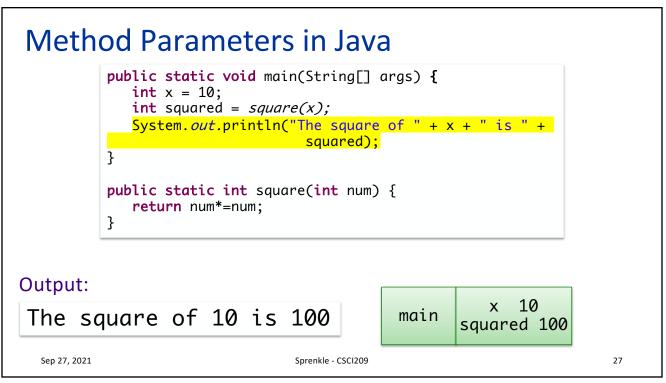




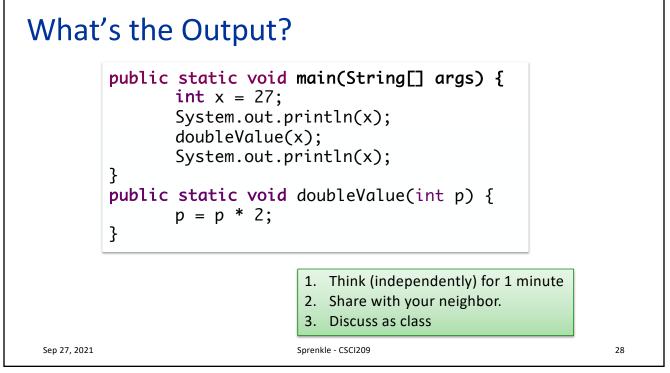


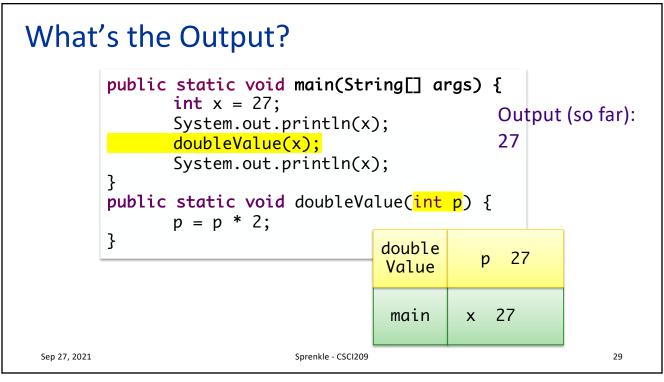




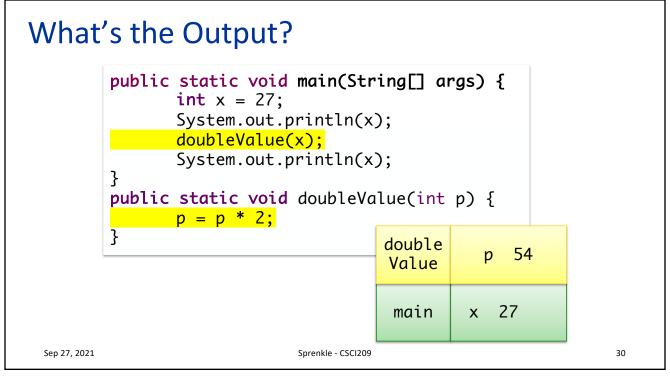


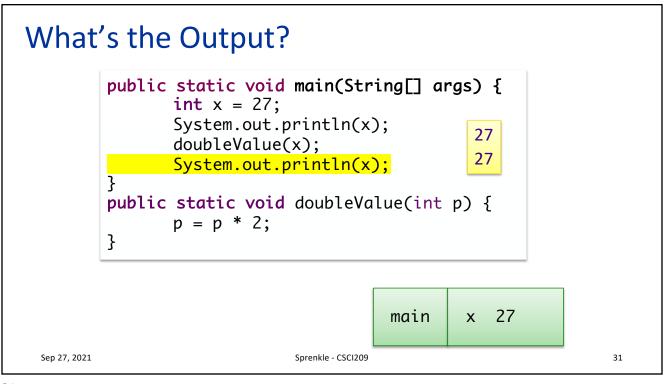


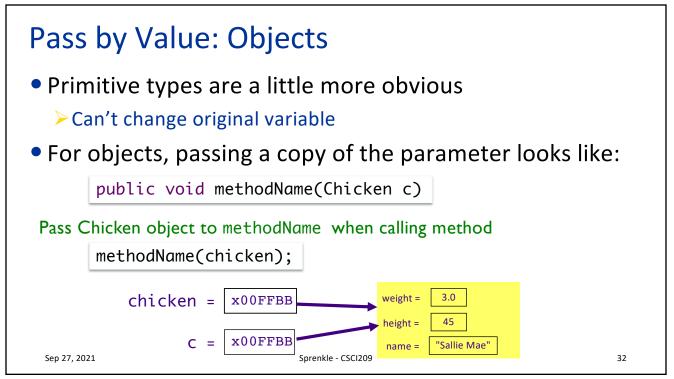


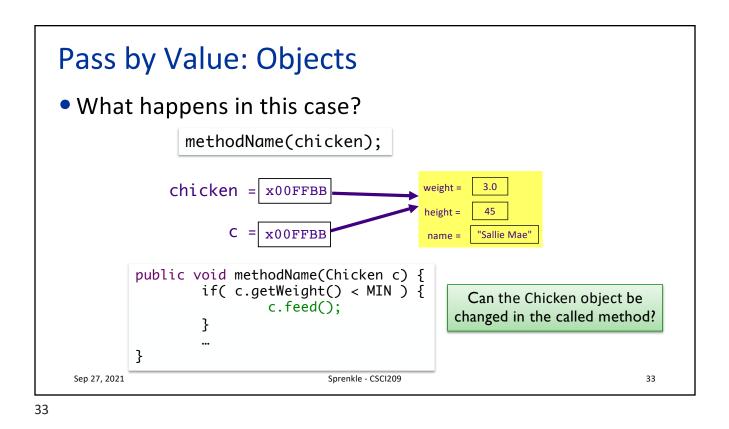


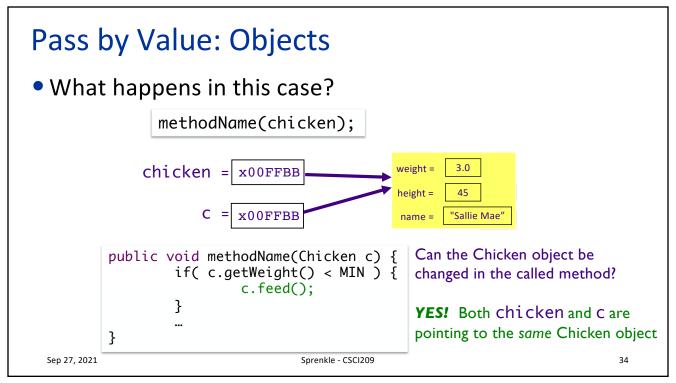


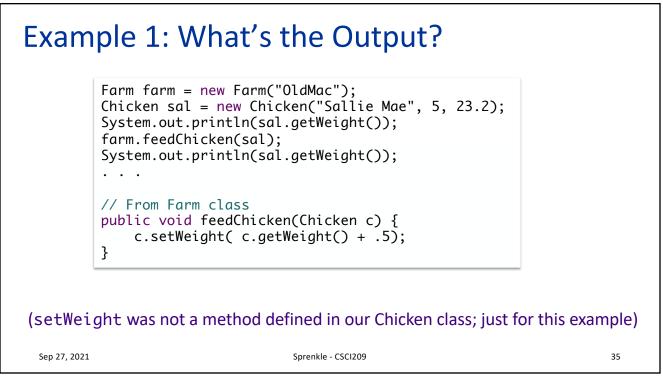




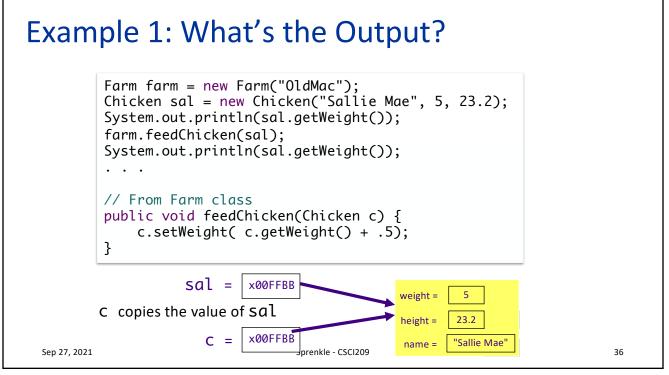


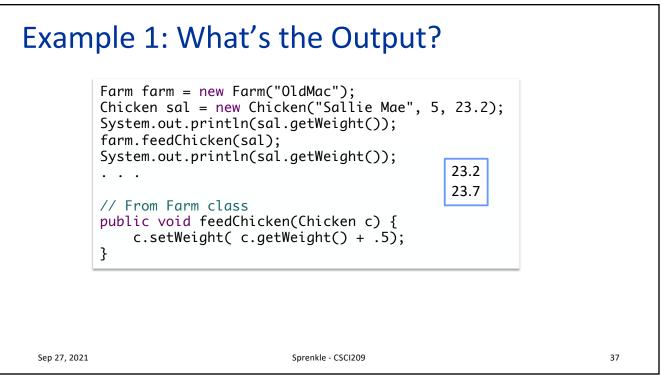














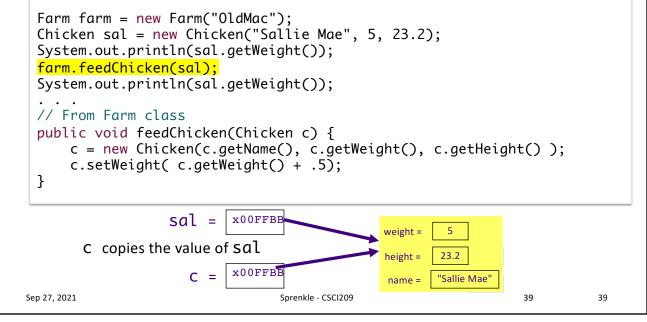
Example 2: What's the Output?

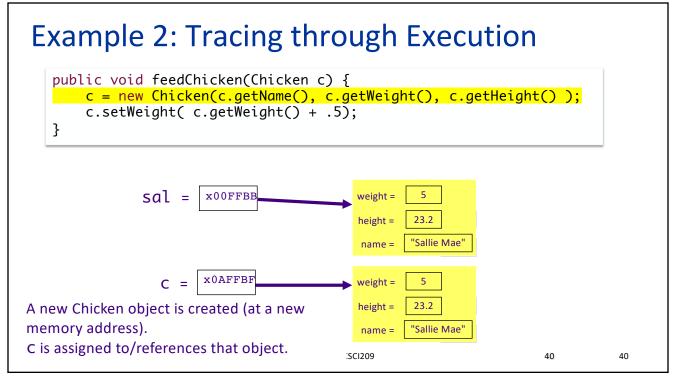
```
Farm farm = new Farm("OldMac");
Chicken sal = new Chicken("Sallie Mae", 5, 23.2);
System.out.println(sal.getWeight());
farm.feedChicken(sal);
System.out.println(sal.getWeight());
. . .
// From Farm class
public void feedChicken(Chicken c) {
    c = new Chicken(c.getName(), c.getWeight(), c.getHeight() );
    c.setWeight( c.getWeight() + .5);
}
```

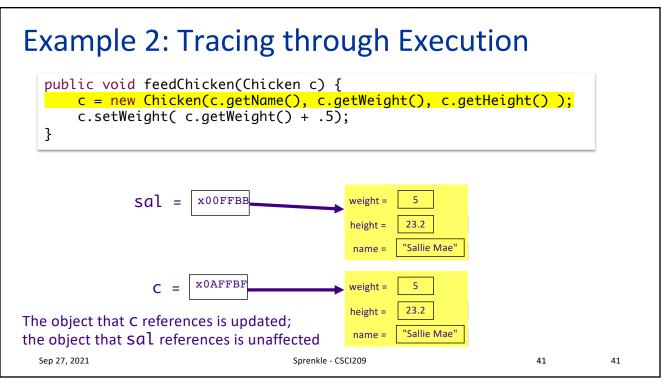
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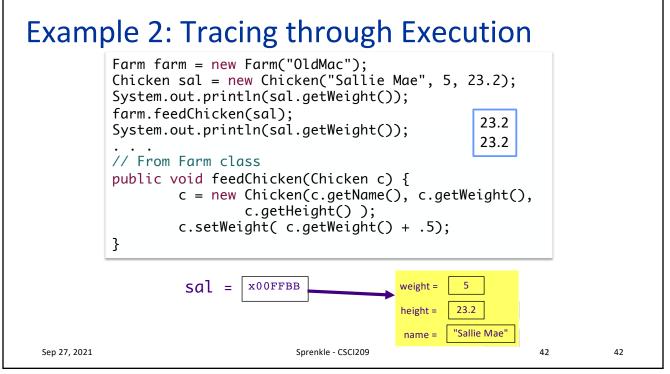
Example 2: Tracing through Execution



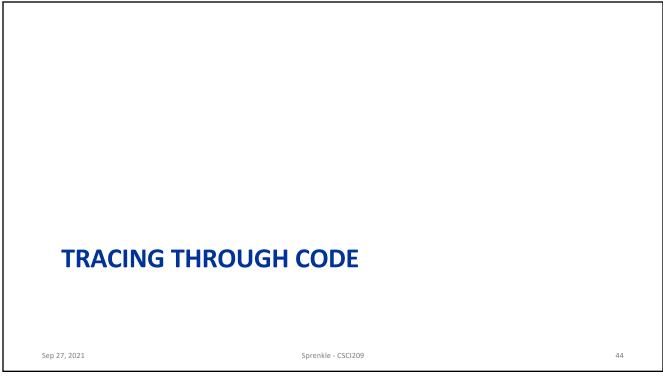








Summary of	Passing Parameters to	Methods		
 Everything is passed by value in Java 				
 An <i>object vari</i> method 	iable (not an object) is passed	into a		
00	<i>state</i> of an object in a method cha ide the method	nges the state		
Called metho	d does not get a copy of the origin	al object		
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What Happens in This Code?

