## Comparing overriding and overloading

| **Overriding** | **Overloading** |
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| Implements “runtime polymorphism” | Implements “compile time polymorphism” |

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| Occurs between superclass and subclass | Occurs between the methods in the same class |

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| Have the same signature (name and method arguments) | Have the same name, but the parameters are different |

**Method Overloading**

1. **class** OverloadingExample{
2. **static** **int** add(**int** a,**int** b){**return** a+b;}
3. **static** **int** add(**int** a,**int** b,**int** c){**return** a+b+c;}
4. }

**Method Overriding**

1. **class** Animal{
2. **void** eat(){System.out.println("eating...");}
3. }
4. **class** Dog **extends** Animal{
5. **void** eat(){System.out.println("eating bread...");}
6. }