61 9. What is the "default" constructor and when does a class get one

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If super is not called in the constructor, the constructor in the parent is called with no arguments

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10. What is the difference between overriding and overloading?

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- 67 overloading: creating numerous versions of a method of the same name with different parameters (arguments)
 - overriding: changing a method with the same name and parameters from its parent class

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- 70 11. What is the Java lookup rule for:
- 71 instance methods: Start at the bottom of the class definition and searches upwards until theres nothing more, ending up in an error
- 72 instance variables: Start by searching all expressions of the given type and then upwards until nothing more, ending up in an error
- 73 static methods: Start at the bottom of the class definition and searches upwards until theres nothing more, ending up in an error
 - 4 static variables

7

12. How does inheritance work in Java? How is it connected to "the super constructor":

78 Classes can extend other classes to inherit their methods and data

Constructors typically start with super(args), calling the constructor in the parent class

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l 13. When do the Java lookup rules apply?

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3 When calling a method or instance variable.

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may want to not be used as to keep the code as closed/encapsulated as possible

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15. What does it mean for Class A to be dependent on Class E

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92 When class A and B have high coupling