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1. A relationship where one item is a more specialized version of another.
2. Dog is base, poodle is derived.
3. Base class access specification applies to derived classes of a base class where class member access specification applies to what functions can access a classes members.
4. Protected members can be accessed by the derived class but private members cannot.
5. Nope, a private member can never be accessed by a derived class.
6. Base class constructor called first.
7. Redefining is when a derived class uses a member function with the same name as a base class, in this case the compiler will use the derived class’s definition. Overriding happens when a class redefines a virtual function.
8. Static binding takes place during compile time, dynamic binding takes place during run time.
9. Abstract base classes cannot be instantiated but other classes can be defined from them.
10. No, this is just a derivation of the food class into vegetable class, and then a derivation of the vegetable class into the potato class. Multiple inheritance would be using two classes at once to derive a new class.
11. Dog
12. Pet
13. Public
14. Private
15. Private
16. Inaccessible, private, private
17. Inaccessible, protected, protected
18. Inaccessible, protected, private
19. Member variables and member functions
20. First
21. Last
22. Override keyword
23. The base definition
24. Pure virtual function
25. Static
26. Dynamic
27. Polymorphism
28. Member functions, redefined
29. Abstract
30. Virtual
31. Hierarchy or chain
32. Multiple inheritance
33. Redefine
34. F
35. T
36. T
37. T
38. F
39. F
40. T
41. F
42. F
43. T
44. F
45. T
46. F
47. T
48. T