

14. When a class implements an interface, it must _____.
- overload all of the methods listed in the interface
 - b. provide all of the nondefault methods that are listed in the interface, with the exact signatures and return types specified**
 - not have a constructor
 - be an abstract class
15. Fields in an interface are _____.
- final
 - static
 - c. both final and static**
 - not allowed
16. Abstract methods must be _____.
- a. overridden**
 - overloaded
 - deleted and replaced with real methods
 - declared as private
17. Abstract classes cannot _____.
- be used as superclasses
 - have abstract methods
 - c. be instantiated**
 - have fields
18. You use the _____ operator to define an anonymous inner class.
- class
 - inner
 - c. new**
 - anonymous
19. An anonymous inner class must _____.
- be a superclass
 - implement an interface
 - extend a superclass
 - d. either b or c.**
20. A functional interface is an interface with _____.

a. only one abstract method.

- b. no abstract methods.
- c. only private methods.
- d. no name.

21. You can use a lambda expression to instantiate an object that _____.

- a. that has no constructor.
- b. extends any superclass.
- c. implements a functional interface**
- d. does not implement an interface.

31. **True** or False: When a class contains an abstract method, the class cannot be instantiated.

32. True or **False**: A class may only implement one interface.

33. **True** or False: By default all members of an interface are public

Algorithm Workbench

7.

```
3  public class Sterio extends SoundSystem implements CDplayable, TunerPlayable, CassettePlayable {  
4  
5  }
```

8.

```
3  public interface Nameable {  
4  
5      public void setName(String n);  
6      public String getName();  
7  
8  }
```

9.

```
3  public class Half implements Computable {  
4  
5      Computable compute = (x) -> x/2;  
6  
7      @Override  
8      public double compute(double x) {  
9          return compute(x);  
10     }  
11  
12 }
```