Final Exam review

Lesson 7

1. Default method, static method
2. API evolution
3. Enum
4. Nested Class
5. Default method Clash, Static Method Clash?
6. toString()
7. equals () : *same-classes-strategy, instance-of-strategy*
8. hashcode()
9. Immutable

Lesson 8

1. Declarative vs imperative programming
2. Functions
3. How Java 7 approximate “Functions as First-Class Citizen”?
4. Lambda expressions
5. Free Variables
6. Closures
7. Functional Interface
8. Method References
9. Final/effectively final
10. High-order function/ Lambda Library

Lesson 9

1. Stream/reuse stream
2. Creation: Stream.of(), Arrays.stream(), iterate(), generate(), etc
3. Intermediate operations: filter(), map(), limit(), skip(), concat(), flatmap(), etc
4. Terminal operations: collect(), reduce()
5. Constructor Reference: Button::new, String::new, int[]::new
6. Stateless/stateful transformations: map, filter, limit / distinct, sort
7. Comparator
8. Optional
9. Primitive type stream
10. IntSummaryStatistics

Lesson 10

1. How to test stream pipelines
2. Annotations
3. try-with-resources
4. Handling Exceptions Arising in Stream Pipelines
5. Concurrent Processing and Parallel Streams

Lesson 11

1. Generic class, Generic interface, Generic method
2. Limitation/restriction of generic
3. Wildcard (?, extends, super)
4. The Get and Put Principle for Bounded Wildcards (Two Exceptions to the Get and Put Rule)
5. Unbounded Wildcard, Wildcard Capture, Helper Methods