Java Interview Cheat Sheet

OOP Concepts

- Encapsulation: Bundling data and methods
- Inheritance: Deriving new classes from existing ones
- Polymorphism: Many forms, method overloading/overriding
- Abstraction: Hiding implementation details
- Interface: Contract for classes, multiple inheritance

Collections

- List: ArrayList, LinkedList
- Set: HashSet, TreeSet
- Map: HashMap, TreeMap
- Queue: PriorityQueue
- Stack: LIFO data structure

Exception Handling

- try-catch-finally blocks
- Checked vs Unchecked Exceptions
- throw vs throws
- Custom Exceptions
- try-with-resources (Java 7+)

Multithreading

- Thread creation: extends Thread, implements Runnable
- Synchronization: synchronized keyword, locks
- wait(), notify(), notifyAll()
- Thread states: New, Runnable, Blocked, Waiting, Timed Wait
- Executor Framework

Java 8+ Features

- Lambda Expressions
- Stream API
- Optional class
- Default methods in interfaces
- CompletableFuture

Design Patterns

- Singleton: One instance of a class
- Factory: Create objects without specifying exact class
- Observer: Define dependency between objects
- Strategy: Define family of algorithms
- Decorator: Add responsibilities to objects dynamically

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Lauren Gardner

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