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A1a Guides

These guides support Assignment 1a. Read them as you work through the assignment.

Getting Started

Guide	When to Read
Environment Setup	Before starting – install JDK & IntelliJ
IDE Basics	First time using IntelliJ
Git Version Control	New to Git? Start here

Understanding the Code

Guide	When to Read
Java Packages	Understanding project structure
Interface Contracts	Before implementing StoreItem
Logging	Requirement 2 – using LOGGER

Code Quality

Guide	When to Read
Linters and Code Quality	Requirement 1 – why linting matters

Guide	When to Read
Checkstyle Rules Reference	Fixing Checkstyle violations
IntelliJ Inspections Reference	Fixing IntelliJ warnings

Testing

Guide	When to Read
Introduction to Unit Testing	Running the provided tests

References

This section consolidates references from all guides linked above.

Primary Texts:

- Bloch, J. (2018). *Effective Java* (3rd ed.). Addison-Wesley.
- Chacon, S., & Straub, B. (2014). *Pro Git* (2nd ed.). Apress. — [Free online](#)
- Horstmann, C. S. (2022). *Core Java, Volume I: Fundamentals* (12th ed.). Oracle Press.
- Reges, S., & Stepp, M. (2020). *Building Java Programs* (5th ed.). Pearson.
- Martin, R. C. (2008). *Clean Code: A Handbook of Agile Software Craftsmanship*. Prentice Hall.
- Beck, K. (2002). *Test Driven Development: By Example*. Addison-Wesley.

Foundational Papers:

- Meyer, B. (1992). Applying "Design by Contract". *IEEE Computer*, 25(10), 40-51.

Language Documentation:

- [Oracle JDK 25 Documentation](#) — Official Java SE reference
- [Oracle Java Tutorials](#) — Official Java tutorials
- [Oracle JDK 25: java.util.Objects](#) — Null checking utilities
- [Oracle JDK 25: java.util.logging](#) — Logging API

Testing Frameworks:

- [JUnit 5 User Guide](#) – Official JUnit 5 documentation

Style Guides and Linting:

- [Google Java Style Guide](#) – Industry-standard style guide
- [Checkstyle Documentation](#) – Official Checkstyle documentation
- [Oracle Code Conventions for Java](#) – Original Sun/Oracle conventions

Tooling:

- [JetBrains IntelliJ IDEA Documentation](#) – Official IDE reference
- [IntelliJ IDEA Code Inspection](#) – Inspection documentation
- [GitHub Documentation](#) – Official GitHub guides
- [GitHub Desktop](#) – GUI application for Git operations
- [GitHub Classroom](#) – Educational features for assignments

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