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- RPG
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- Swift
- Terraform
- Text
- TypeScript
- T-SQL
- VB.NET
- VB6
- XML

Java static code analysis

Unique rules to find Bugs, Vulnerabilities, Security Hotspots, and Code Smells in your JAVA code

All rules 632 | Vulnerability 53 | Bug 154 | Security Hotspot 36 | Code Smell 389 | Quick Fix 42

Tags | Search by name...

Code Smell

"switch" statements and expressions should not be nested

Code Smell

Constructors should only call non-overridable methods

Code Smell

Methods should not be too complex

Code Smell

Control flow statements "if", "for", "while", "switch" and "try" should not be nested too deeply

Code Smell

"if ... else if" constructs should end with "else" clauses

Code Smell

Control structures should use curly braces

Code Smell

Expressions should not be too complex

Code Smell

Mockito argument matchers should be used on all parameters

Bug

Spring "@Controller" classes should not use "@Scope"

Bug

Constructor injection should be used instead of field injection

Bug

Classes that don't define "hashCode()" should not be used in hashes

Assignments should not be redundant

Analyze your code

Code Smell Major redundant

The transitive property says that if `a == b` and `b == c`, then `a == c`. In such cases, there's no point in assigning `a` to `c` or vice versa because they're already equivalent.

This rule raises an issue when an assignment is useless because the assigned-to variable already holds the value on all execution paths.

Noncompliant Code Example

```
a = b;
c = a;
b = c; // Noncompliant: c and b are already the same
```

Compliant Solution

```
a = b;
c = a;
```

Available In:

sonarlint sonarcloud sonarqube

Bug

Floating point numbers should not be tested for equality

Bug

Increment (++) and decrement (--) operators should not be used in a method call or mixed with other operators in an expression

Code Smell

Limited dependence should be placed on operator precedence

Code Smell

Custom getter method should not be