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Java static code analysis

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

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Loggers should be named for their enclosing classes

Code Smell

Methods should not return constants

Code Smell

"private" methods called only by inner classes should be moved to those classes

Code Smell

"enum" fields should not be publicly mutable

Code Smell

Abstract methods should not be redundant

Code Smell

Arrays should not be copied using loops

Code Smell

Static non-final field names should comply with a naming convention

Code Smell

JUnit rules should be used

Code Smell

Nested "enum"s should not be declared static

Code Smell

"catch" clauses should do more than rethrow

Code Smell

Mutable fields should not be "public static"

Code Smell

Methods should not be named "toString", "hashCode" or "equal"

Analyze your code

Bug Major ? pitfall

Naming a method toString, hashCode or equal is either:

- A bug in the form of a typo. Overriding toString, Object.hashCode() (note the camelCasing) or Object.equals (note the 's' on the end) was meant, and the application does not behave as expected.
- Done on purpose. The name however will confuse every other developer, who may not notice the naming difference, or who will think it is a bug.

In both cases, the method should be renamed.

Noncompliant Code Example

```
public int hashCode() { /* ... */ } // Noncompliant

public String toString() { /* ... */ } // Noncompliant

public boolean equal(Object obj) { /* ... */ } // Noncompliant
```

Compliant Solution

```
@Override
public int hashCode() { /* ... */ }

@Override
public String toString() { /* ... */ }

@Override
public boolean equals(Object obj) { /* ... */ }
```





Available In:

sonarlint sonarcloud sonarqube

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https://rules.sonarsource.com/java/RSPEC-1221

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<div>The diamond operator ("<>") should be used</div> <div> Code Smell</div>
<div>"finalize" should not set fields to "null"</div> <div> Code Smell</div>
<div>Subclasses that add fields should override "equals"</div> <div> Code Smell</div>
<div>Catches should be combined</div> <div> Code Smell</div>
<div>Methods of "Random" that return floating point values should not be</div>