




 Secrets


 ABAP


 Apex


 C


 C++


 CloudFormation


 COBOL


 C#


 CSS


 Flex


 Go


 HTML


 **Java**


 JavaScript


 Kotlin


 Objective C


 PHP


 PL/I


 PL/SQL


 Python


 RPG


 Ruby


 Scala


 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 rules632

Vulnerability53

Bug154

Security Hotspot36

Code Smell389

Quick Fix42

Tags ▾

Search by name... 🔍

Classes named like "Exception" should extend "Exception" or a subclass

Code Smell

Exceptions should be either logged or rethrown but not both

Code Smell

Objects should not be created only to "getClass"

Code Smell

Primitives should not be boxed just for "String" conversion

Code Smell

Constructors should not be used to instantiate "String", "BigInteger", "BigDecimal" and primitive-wrapper classes

Code Smell

"URL.hashCode" and "URL.equals" should be avoided

Code Smell

Two branches in a conditional structure should not have exactly the same implementation

Code Smell

Unused assignments should be removed

Code Smell

"Object.wait(...)" should never be called on objects that implement "java.util.concurrent.locks.Condition"

Code Smell

A field should not duplicate the name of its containing class

Code Smell

JUnit4 @Ignored and JUnit5 @Disabled annotations should be used to disable tests and should provide a rationale

Collection sizes and array length comparisons should make sense

Analyze your code

BugMajor?

The size of a collection and the length of an array are always greater than or equal to zero. So testing that a size or length is greater than or equal to zero doesn't make sense, since the result is always `true`. Similarly testing that it is less than zero will always return `false`. Perhaps the intent was to check the non-emptiness of the collection or array instead.

Noncompliant Code Example

```
if (myList.size() >= 0) { ... }

if (myList.size() < 0) { ... }

boolean result = myArray.length >= 0;

if (0 > myArray.length) { ... }
```

Compliant Solution

```
if (!myList.isEmpty()) { ... }

if (myArray.length >= 42) { ... }
```





Available In:

sonarlint | sonarcloud | sonarqube

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https://rules.sonarsource.com/java/RSPEC-3981

1/2

 Code Smell
Anonymous inner classes containing only one method should become lambdas
 Code Smell
"switch" statements should not have too many "case" clauses
 Code Smell
"for" loop stop conditions should be invariant
 Code Smell
Sections of code should not be commented out