




 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


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 VB.NET

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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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inheritable

Code Smell

"for" loop increment clauses should modify the loops' counters

Code Smell

Fields in a "Serializable" class should either be transient or serializable

Code Smell

Package declaration should match source file directory

Code Smell

Generic wildcard types should not be used in return types

Code Smell

"switch" statements should have "default" clauses

Code Smell

Execution of the Garbage Collector should be triggered only by the JVM

Code Smell

Constants should not be defined in interfaces

Code Smell

String literals should not be duplicated

Code Smell

Methods should not be empty

Code Smell

"Object.finalize()" should remain protected (versus public) when overriding

Code Smell

Exceptions should not be thrown in finally blocks

Code Smell

Regex patterns following a possessive quantifier should not always fail

Analyze your code

Bug

Critical

regex

Possessive quantifiers in Regex patterns like below improve performance by eliminating needless backtracking:

`?+ , *+ , ++ , {n}+ , {n,}+ , {n,m}+`

But because possessive quantifiers do not keep backtracking positions and never give back, the following sub-patterns should not match only similar characters. Otherwise, possessive quantifiers consume all characters that could have matched the following sub-patterns and nothing remains for the following sub-patterns.

Noncompliant Code Example

```
Pattern pattern1 = Pattern.compile("a++abc"); // Nonco
Pattern pattern2 = Pattern.compile("\\d*[02468]"); // Nonco
```

Compliant Solution

```
Pattern pattern1 = Pattern.compile("aa++bc"); //
Pattern pattern2 = Pattern.compile("\\d*+(?<=[02468])"); //
```

Available In:

sonarlint





sonarcloud

sonarqube

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https://rules.sonarsource.com/java/RSPEC-5994

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<div>Constant names should comply with a naming convention</div> <div> Code Smell</div>
<div>The Object.finalize() method should not be overridden</div> <div> Code Smell</div>
<div>XML operations should not be vulnerable to injection attacks</div> <div> Vulnerability</div>
<div>JSON operations should not be vulnerable to injection attacks</div> <div> Vulnerability</div>