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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...

Abstract class names should comply with a naming convention
Code Smell

Strings literals should be placed on the left side when checking for equality
Code Smell

Files should contain an empty newline at the end
Code Smell

Source code should be indented consistently
Code Smell

A close curly brace should be located at the beginning of a line
Code Smell

Close curly brace and the next "else", "catch" and "finally" keywords should be on two different lines
Code Smell

Close curly brace and the next "else", "catch" and "finally" keywords should be located on the same line
Code Smell

An open curly brace should be located at the beginning of a line
Code Smell

An open curly brace should be located at the end of a line
Code Smell

Tabulation characters should not be used
Code Smell

Functions should not be defined with a variable number of arguments
Code Smell

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

Analyze your code

Code Smell | Major | cert

The use of increment and decrement operators in method calls or in combination with other arithmetic operators is not recommended, because:

- It can significantly impair the readability of the code.
- It introduces additional side effects into a statement, with the potential for undefined behavior.
- It is safer to use these operators in isolation from any other arithmetic operators.

Noncompliant Code Example

```
u8a = ++u8b + u8c--;
foo = bar++ / 4;
```

Compliant Solution

The following sequence is clearer and therefore safer:

```
++u8b;
u8a = u8b + u8c;
u8c--;
foo = bar / 4;
bar++;
```

See

- CERT, EXP30-C. - Do not depend on the order of evaluation for side effects
- CERT, EXP50-CPP. - Do not depend on the order of evaluation for side effects
- CERT, EXP05-J. - Do not follow a write by a subsequent write or read of the same object within an expression

Available In:

sonarlint | sonarcloud | sonarqube

Local-Variable Type Inference should be used

Code Smell

Migrate your tests from JUnit4 to the new JUnit5 annotations

Code Smell

Track uses of disallowed classes

Code Smell

Track uses of "@SuppressWarnings" annotations

Code Smell