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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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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

Octal values should not be used

Analyze your code

Code Smell

Blocker

cert pitfall

Integer literals starting with a zero are octal rather than decimal values. While using octal values is fully supported, most developers do not have experience with them. They may not recognize octal values as such, mistaking them instead for decimal values.

Noncompliant Code Example

```
int myNumber = 010; // Noncompliant. myNumber will hold 8, not 10
```

Compliant Solution

```
int myNumber = 8;
```

See

- [CERT, DCL18-C](#) - Do not begin integer constants with 0 when specifying a decimal value
- [CERT, DCL50-J](#) - Use visually distinct identifiers

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https://rules.sonarsource.com/java/RSPEC-1314

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