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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

Collection methods with O(n) performance should be used carefully

Analyze your code

Code Smell | Minor | performance

The time complexity of method calls on collections is not always obvious. For instance, for most collections the `size()` method takes constant time, but the time required to execute `ConcurrentLinkedQueue.size()` is O(n), i.e. directly proportional to the number of elements in the collection. When the collection is large, this could therefore be an expensive operation.

This rule raises an issue when the following O(n) methods are called outside of constructors on class fields:

- `ArrayList`
  - `contains`
  - `remove`
- `LinkedList`
  - `get`
  - `contains`
- `ConcurrentLinkedQueue`
  - `size`
  - `contains`
- `ConcurrentLinkedDeque`
  - `size`
  - `contains`
- `CopyOnWriteArrayList`
  - `add`
  - `contains`
  - `remove`
- `CopyOnWriteArraySet`
  - `add`
  - `contains`
  - `remove`

Noncompliant Code Example

```
ConcurrentLinkedQueue queue = new ConcurrentLinkedQueue();
//...
log.info("Queue contains " + queue.size() + " elements");  /
```

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