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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

Arrays should not be copied using loops

Analyze your code

Code Smell

Minor

clumsy

Using a loop to copy an array or a subset of an array is simply wasted code when there are built-in functions to do it for you. Instead, use `Arrays.copyOf` to copy an entire array into another array, use `System.arraycopy` to copy only a subset of an array into another array, and use `Arrays.asList` to feed the constructor of a new list with an array.

Note that `Arrays.asList` simply puts a `Collections` wrapper around the original array, so further steps are required if a non-fixed-size `List` is desired.

Noncompliant Code Example

```
public void makeCopies(String[] source) {

    this.array = new String[source.length];
    this.list = new ArrayList(source.length);

    for (int i = 0; i < source.length; i++) {
        this.array[i] = source[i]; // Noncompliant
    }

    for (String s : source) {
        this.list.add(s); // Noncompliant
    }
}
```

Compliant Solution

```
public void makeCopies(String[] source) {
    this.array = Arrays.copyOf(source, source.length);
    Collections.addAll(this.list, source);
}
```

Exceptions


Rule detects only the most idiomatic patterns, it will not consider loops with non-trivial control flow. For example, array elements that are copied conditionally are ignored.

```
public int[] getCopy(int[] source) {
    int[] dest = new int[source.length];
    for (int i = 0; i < source.length; i++) {
        if (source[i] > 10) {
            dest[i] = source[i]; // Compliant
        }
    }
    return dest;
}
```


https://rules.sonarsource.com/java/RSPEC-3012

1/2


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

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Track uses of "@SuppressWarnings" annotations

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Available In:

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