

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

Terraform

Text

TypeScript

T-SQL

VB.NET

VB6

XML

Java static code analysis

Unique rules to find Bugs, Vulnerabilities, Security Hotspots, and Code Smells in your JAVA code

All rules632

Vulnerability53

Bug154

Security Hotspot36

Code Smell389

Quick Fix42

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

Use Java 12 "switch" expression

Analyze your code

Code Smell

Minor

java12

Many existing switch statements are essentially simulations of switch expressions, where each arm either assigns to a common target variable or returns a value. Expressing this as a statement is roundabout, repetitive, and error-prone.

Java 12 added support for switch expressions, which provide more succinct and less error-prone version of switch.

Noncompliant Code Example

```
void day_of_week(DoW day) {
    int numLetters;
    switch (day) { // Noncompliant
        case MONDAY:
        case FRIDAY:
        case SUNDAY:
            numLetters = 6;
            break;
        case TUESDAY:
            numLetters = 7;
            break;
        case THURSDAY:
        case SATURDAY:
            numLetters = 8;
            break;
        case WEDNESDAY:
            numLetters = 9;
            break;
        default:
            throw new IllegalStateException("Wat: " + day);
    }
}

int return_switch(int x) {
    switch (x) { // Noncompliant
        case 1:
            return 1;
        case 2:
            return 2;
        default:
            throw new IllegalStateException();
    }
}
```


Compliant Solution

```
int numLetters = switch (day) {
    case MONDAY, FRIDAY, SUNDAY -> 6;
    case TUESDAY                -> 7;
    case THURSDAY, SATURDAY     -> 8;
```


https://rules.sonarsource.com/java/RSPEC-5194

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

 Code Smell

Track uses of "@SuppressWarnings" annotations

 Code Smell

```
case WEDNESDAY
    -> 9;
};
```

Available In:
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