




 Secrets


 ABAP


 Apex


 C


 C++


 CloudFormation


 COBOL


 C#


 CSS


 Flex


 Go


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 **Java**


 JavaScript


 Kotlin


 Objective C


 PHP


 PL/I


 PL/SQL


 Python


 RPG


 Ruby


 Scala


 Swift


 Terraform


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 VB.NET

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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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local variables

Code Smell

"public static" fields should be constant

Code Smell

Loops should not contain more than a single "break" or "continue" statement

Code Smell

Declarations should use Java collection interfaces such as "List" rather than specific implementation classes such as "LinkedList"

Code Smell

"switch" statements should have at least 3 "case" clauses

Code Smell

A "while" loop should be used instead of a "for" loop

Code Smell

The default unnamed package should not be used

Code Smell

"equals(Object obj)" should be overridden along with the "compareTo(T obj)" method

Code Smell

Package names should comply with a naming convention

Code Smell

Nested code blocks should not be used

Code Smell

Array designators "[]" should be on the type, not the variable

Code Smell

Redundant constructors/methods should be avoided in records

Analyze your code

Code Smell

Major ?

java16

In Java 16 records represent a brief notation for immutable data structures. Records have autogenerated implementations for constructors with all parameters, getters, equals, hashCode and toString. Although these methods can still be overridden inside records, there is no use to do so if no special logic is required.

This rule reports an issue on empty compact constructors, trivial canonical constructors and simple getter methods with no additional logic.

Noncompliant Code Example

```
record Person(String name, int age) {
    Person(String name, int age) { // Noncompliant, already au
        this.name = name;
        this.age = age;
    }
}

record Person(String name, int age) {
    Person { // Noncompliant, no need for empty compact constr
    }
    public String name() { // Noncompliant, already autogenerated
        return name;
    }
}
```

Compliant Solution

```
record Person(String name, int age) { } // Compliant

record Person(String name, int age) {
    Person(String name, int age) { // Compliant
        this.name = name.toLowerCase(Locale.ROOT);
        this.age = age;
    }
}

record Person(String name, int age) {
    Person { // Compliant
        if (age < 0) {
            throw new IllegalArgumentException("Negative age");
        }
    }
    public String name() { // Compliant
        return name.toUpperCase(Locale.ROOT);
    }
}
```

See

https://rules.sonarsource.com/java/RSPEC-6207

1/2

Array designators "[]" should be located after the type in method signatures

 Code Smell

Type parameter names should comply with a naming convention

 Code Smell

Overriding methods should do more than simply call the same method in the super class

 Code Smell

Classes that override "clone" should be "Cloneable" and call "super.clone()"

 Code Smell

- [Records specification](#)

Available In:

sonarlint  | **sonarcloud**  | **sonarqube** 

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