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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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"Preconditions" and logging arguments should not require evaluation

Code Smell

Boolean expressions should not be gratuitous

Code Smell

"Lock" objects should not be "synchronized"

Code Smell

Classes with only "static" methods should not be instantiated

Code Smell

"Threads" should not be used where "Runnables" are expected

Code Smell

Inner class calls to super class methods should be unambiguous

Code Smell

Unused type parameters should be removed

Code Smell

Parameters should be passed in the correct order

Code Smell

"ResultSet.isLast()" should not be used

Code Smell

"static" members should be accessed statically

Code Smell

Silly math should not be performed

Code Smell

Classes named like "Exception" should extend "Exception" or a subclass

Code Smell

"compareTo" should not be overloaded

Analyze your code

BugMajor?pitfall

When implementing the `Comparable<T>.compareTo` method, the parameter's type has to match the type used in the `Comparable` declaration. When a different type is used this creates an overload instead of an override, which is unlikely to be the intent.

This rule raises an issue when the parameter of the `compareTo` method of a class implementing `Comparable<T>` is not same as the one used in the `Comparable` declaration.

Noncompliant Code Example

```
public class Foo {
    static class Bar implements Comparable<Bar> {
        public int compareTo(Bar rhs) {
            return -1;
        }
    }

    static class FooBar extends Bar {
        public int compareTo(FooBar rhs) { // Noncompliant: Parameter type mismatch
            return 0;
        }
    }
}
```

Compliant Solution

```
public class Foo {
    static class Bar implements Comparable<Bar> {
        public int compareTo(Bar rhs) {
            return -1;
        }
    }





    static class FooBar extends Bar {
        public int compareTo(Bar rhs) {
            return 0;
        }
    }
}
```

Available In:

sonarlint🔌 | sonarcloud🔗 | sonarqube🔗

https://rules.sonarsource.com/java/RSPEC-4351

1/2

Extend Exception or subclass
 Code Smell
Exceptions should be either logged or rethrown but not both
 Code Smell
Objects should not be created only to "getClass"
 Code Smell
Primitives should not be boxed just for "String" conversion
 Code Smell
Constructors should not be used to instantiate "String" "BigInteger"

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