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Java static code analysis

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Bug

Math should not be performed on floats

Bug

"equals" methods should be symmetric and work for subclasses

Bug

Literal suffixes should be upper case

Code Smell

Unicode-aware versions of character classes should be preferred

Code Smell

Use Java 12 "switch" expression

Code Smell

"serialVersionUID" should not be declared blindly

Code Smell

"Stream.collect()" calls should not be redundant

Code Smell

Local constants should follow naming conventions for constants

Code Smell

Unit tests should throw exceptions

Code Smell

Test methods should comply with a naming convention

Code Smell

Value-based objects should not be serialized

Code Smell

Default annotation parameter values should not be passed as arguments

Constructors should not be used to instantiate "String", "BigInteger", "BigDecimal" and primitive-wrapper classes

Analyze your code

Code Smell

Major

performance

Constructors for String, BigInteger, BigDecimal and the objects used to wrap primitives should never be used. Doing so is less clear and uses more memory than simply using the desired value in the case of strings, and using valueOf for everything else.

Noncompliant Code Example

```
String empty = new String(); // Noncompliant; yields essenti
String nonempty = new String("Hello world"); // Noncompliant
Double myDouble = new Double(1.1); // Noncompliant; use valu
Integer integer = new Integer(1); // Noncompliant
Boolean bool = new Boolean(true); // Noncompliant
BigInteger bigInteger1 = new BigInteger("3"); // Noncomplan
BigInteger bigInteger2 = new BigInteger("9223372036854775807
BigInteger bigInteger3 = new BigInteger("1112223334445556667
```

Compliant Solution

```
String empty = "";
String nonempty = "Hello world";
Double myDouble = Double.valueOf(1.1);
Integer integer = Integer.valueOf(1);
Boolean bool = Boolean.valueOf(true);
BigInteger bigInteger1 = BigInteger.valueOf(3);
BigInteger bigInteger2 = BigInteger.valueOf(9223372036854775
BigInteger bigInteger3 = new BigInteger("1112223334445556667
```

Exceptions

BigDecimal constructor with double argument is ignored as using valueOf instead might change resulting value. See {rule:java:S2111}.

Available In:
sonarlint | sonarcloud | sonarqube

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<div><div></div><div>Code Smell</div></div>
<div><div><div>Method parameters should be declared with base types</div><div><div></div><div>Code Smell</div></div></div></div>
<div><div><div>Fields should not be initialized to default values</div><div><div></div><div>Code Smell</div></div></div></div>
<div><div><div>Multiple loops over the same set should be combined</div><div><div></div><div>Code Smell</div></div></div></div>
<div><div><div>Classes without "public" constructors should be "final"</div></div></div>