sonar RULES

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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

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Functions should not be defined with a variable number of arguments

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The value returned from a stream read should be checked

Analyze your code

🐞 Bug   ⊖ Minor ⑦   🏷 cert

You cannot assume that any given stream reading call will fill the `byte[]` passed in to the method. Instead, you must check the value returned by the read method to see how many bytes were read. Fail to do so, and you introduce bug that is both harmful and difficult to reproduce.

Similarly, you cannot assume that `InputStream.skip` will actually skip the requested number of bytes, but must check the value returned from the method.

This rule raises an issue when an `InputStream.read` method that accepts a `byte[]` is called, but the return value is not checked, and when the return value of `InputStream.skip` is not checked. The rule also applies to `InputStream` child classes.

Noncompliant Code Example

```
public void doSomething(String fileName) {
  try {
    InputStream is = new InputStream(file);
    byte [] buffer = new byte[1000];
    is.read(buffer);   // Noncompliant
    // ...
  } catch (IOException e) { ... }
}
```

Compliant Solution

```
public void doSomething(String fileName) {
  try {
    InputStream is = new InputStream(file);
    byte [] buffer = new byte[1000];
    int count = 0;
    while (count = is.read(buffer) > 0) {
      // ...
    }
  } catch (IOException e) { ... }
}
```

See

- CERT, FIO10-J. - Ensure the array is filled when using read() to fill an array

Available In:

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Local-Variable Type Inference should be used

� Code Smell

Migrate your tests from JUnit4 to the new JUnit5 annotations

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Track uses of disallowed classes

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Track uses of "@SuppressWarnings" annotations

� Code Smell