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Java static code analysis

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

All rules 632 | Vulnerability 53 | Bug 154 | Security Hotspot 36 | Code Smell 389 | Quick Fix 42

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Type parameters should not shadow other type parameters
Code Smell

"read(byte[],int,int)" should be overridden
Code Smell

An iteration on a Collection should be performed on the type handled by the Collection
Code Smell

"StandardCharsets" constants should be preferred
Code Smell

"@CheckForNull" or "@Nullable" should not be used on primitive types
Code Smell

Composed "@RequestMapping" variants should be preferred
Code Smell

"write(byte[],int,int)" should be overridden
Code Smell

Functional Interfaces should be as specialised as possible
Code Smell

Null checks should not be used with "instanceof"
Code Smell

"close()" calls should not be redundant
Code Smell

"ThreadLocal.withInitial" should be preferred
Code Smell

"Stream" call chains should be simplified when possible

"Externalizable" classes should have no-arguments constructors

Analyze your code

Bug Major

An `Externalizable` class is one which handles its own `Serialization` and deserialization. During deserialization, the first step in the process is a default instantiation using the class' no-argument constructor. Therefore an `Externalizable` class without a no-arg constructor cannot be deserialized.

Noncompliant Code Example

```
public class Tomato implements Externalizable {  // Noncompl

  public Tomato (String color, int weight) { ... }
}
```

Compliant Solution

```
public class Tomato implements Externalizable {

  public Tomato() { ... }
  public Tomato (String color, int weight) { ... }
}
```

Available In:

sonarlint sonarcloud sonarqube

Code Smell

Packages containing only "package-info.java" should be removed

Code Smell

Arrays should not be created for varargs parameters

Code Smell

Jump statements should not be redundant

Code Smell