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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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The non-serializable super class of a "Serializable" class should have a no-argument constructor

🐛 Bug

Method parameters, caught exceptions and foreach variables' initial values should not be ignored

🐛 Bug

"equals(Object obj)" and "hashCode()" should be overridden in pairs

🐛 Bug

Disclosing fingerprints from web application technologies is security-sensitive

🛡 Security Hotspot

Having a permissive Cross-Origin Resource Sharing policy is security-sensitive

🛡 Security Hotspot

Delivering code in production with debug features activated is security-sensitive

🛡 Security Hotspot

Searching OS commands in PATH is security-sensitive

🛡 Security Hotspot

Allowing both safe and unsafe HTTP methods is security-sensitive

🛡 Security Hotspot

Creating cookies without the "HttpOnly" flag is security-sensitive

🛡 Security Hotspot

Creating cookies without the "secure" flag is security-sensitive

🛡 Security Hotspot

Using hardcoded IP addresses is security-sensitive

Dissimilar primitive wrappers should not be used with the ternary operator without explicit casting

Analyze your code

🐛 Bug   ⬥ Major ?

If wrapped primitive values (e.g. `Integers` and `Floats`) are used in a ternary operator (e.g. `a?b:c`), both values will be unboxed and coerced to a common type, potentially leading to unexpected results. To avoid this, add an explicit cast to a compatible type.

Noncompliant Code Example

```
Integer i = 123456789;
Float f = 1.0f;
Number n = condition ? i : f;  // Noncompliant; i is coerced
```

Compliant Solution

```
Integer i = 123456789;
Float f = 1.0f;
Number n = condition ? (Number) i : f;  // n = 123456789
```

Available In:

sonarlint 😊 | **sonar**cloud ☁ | **sonar**qube 〰

🛡 Security Hotspot

'serialVersionUID' field should not be set to '0L' in records

☢ Code Smell

Permitted types of a sealed class should be omitted if they are declared in the same file

☢ Code Smell

Switch arrow labels should not use redundant keywords

☢ Code Smell

Text blocks should not be used in complex expressions