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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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the proper type

🐞 Bug

Neither "Math.abs" nor negation should be used on numbers that could be "MIN_VALUE"

🐞 Bug

The value returned from a stream read should be checked

🐞 Bug

"@NonNull" values should not be set to null

🐞 Bug

"Iterator.next()" methods should throw "NoSuchElementException"

🐞 Bug

"compareTo" results should not be checked for specific values

🐞 Bug

Math operands should be cast before assignment

🐞 Bug

Ints and longs should not be shifted by zero or more than their number of bits-1

🐞 Bug

"compareTo" should not return "Integer.MIN_VALUE"

🐞 Bug

Boxing and unboxing should not be immediately reversed

🐞 Bug

"equals(Object obj)" should test argument type

🐞 Bug

"Serializable" inner classes of non-serializable classes should be "static"

Servlets should not have mutable instance fields

Analyze your code

🐞 Bug 🔴 Major ? 📁 multi-threading struts cert

By contract, a servlet container creates one instance of each servlet and then a dedicated thread is attached to each new incoming HTTP request to process the request. So all threads share the servlet instances and by extension their instance fields. To prevent any misunderstanding and unexpected behavior at runtime, all servlet fields should then be either `static` and/or `final`, or simply removed.

With Struts 1.X, the same constraint exists on `org.apache.struts.action.Action`.

Noncompliant Code Example

```
public class MyServlet extends HttpServlet {
    private String userName; //As this field is shared by all
    ...
}
```

or

```
public class MyAction extends Action {
    private String userName; //Same reason
    ...
}
```




Exceptions

- Fields annotated with `@javax.inject.Inject`, `@javax.ejb.EJB`, `@org.springframework.beans.factory.annotation.Autowired`, `@javax.annotation.Resource`
- Fields initialized in `init()` or `init(ServletConfig config)` methods

See

- [CERT, MSC11-J](#). - Do not let session information leak within a servlet

Available In:





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https://rules.sonarsource.com/java/RSPEC-2226

1/2

 Bug
<p>The non-serializable super class of a "Serializable" class should have a no-argument constructor</p>  Bug
<p>Method parameters, caught exceptions and foreach variables' initial values should not be ignored</p>  Bug
<p>"equals(Object obj)" and "hashCode()" should be overridden in pairs</p>  Bug