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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

Code Smell

Functions should not be defined with a variable number of arguments

Code Smell

Call to Mockito method "verify", "when" or "given" should be simplified

Analyze your code

Code SmellMinor?tests mockito clumsy

Mockito provides *argument matchers* for flexibly stubbing or verifying method calls.

Mockito.verify(), Mockito.when(), Stubber.when() and BDDMockito.given() each have overloads with and without argument matchers.

However, the default matching behavior (i.e. without argument matchers) uses equals(). If only the matcher org.mockito.ArgumentMatchers.eq() is used, the call is equivalent to the call without matchers, i.e. the eq() is not necessary and can be omitted. The resulting code is shorter and easier to read.

Noncompliant Code Example

```
@Test
public void myTest() {
    given(foo.bar(eq(v1), eq(v2), eq(v3))).willReturn(null);
    when(foo.baz(eq(v4), eq(v5))).thenReturn("foo"); // Noncompliant
    doThrow(new RuntimeException()).when(foo).quux(eq(42));
    verify(foo).bar(eq(v1), eq(v2), eq(v3)); // Noncompliant
}
```

Compliant Solution

```
@Test
public void myTest() {
    given(foo.bar(v1, v2, v3)).willReturn(null);
    when(foo.baz(v4, v5)).thenReturn("foo");
    doThrow(new RuntimeException()).when(foo).quux(42);
    verify(foo).bar(v1, v2, v3);
}
```

See

- [Mockito documentation](#) - argument matchers
- {rule:java:S6073} - Mockito argument matchers should be used on all parameters

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https://rules.sonarsource.com/java/RSPEC-6068

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