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## Java static code analysis

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

All rules632

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
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 Bug


AssertJ assertions with "Consumer" arguments should contain assertion inside consumers







The regex escape sequence \cX should only be used with characters in the @\_ range







Regular expressions should not overflow the stack







Tests method should not be annotated with competing annotations







Assertions should not be used in production code







DateTimeFormatters should not use mismatched year and week numbers





Unicode Grapheme Clusters should be avoided inside regex character classes





Case insensitive Unicode regular expressions should enable the "UNICODE\_CASE" flag





Assertions should not compare an object to itself





Regex alternatives should not be redundant








Alternatives in regular expressions

### Jump statements should not occur in "finally" blocks

Analyze your code

 Bug  Critical  cwe error-handling cert

Using `return`, `break`, `throw`, and so on from a `finally` block suppresses the propagation of any unhandled `Throwable` which was thrown in the `try` or `catch` block.

This rule raises an issue when a jump statement (`break`, `continue`, `return`, `throw`, and `goto`) would force control flow to leave a `finally` block.

#### Noncompliant Code Example

```
public static void main(String[] args) {
    try {
        doSomethingWhichThrowsException();
        System.out.println("OK"); // incorrect "OK" message is
    } catch (RuntimeException e) {
        System.out.println("ERROR"); // this message is not sho
    }
}

public static void doSomethingWhichThrowsException() {
    try {
        throw new RuntimeException();
    } finally {
        for (int i = 0; i < 10; i++) {
            //...
            if (q == i) {
                break; // ignored
            }
        }

        /* ... */
        return; // Noncompliant - prevents the RuntimeExcept
    }
}
```





#### Compliant Solution

```
public static void main(String[] args) {
    try {
        doSomethingWhichThrowsException();
        System.out.println("OK");
    } catch (RuntimeException e) {
        System.out.println("ERROR"); // "ERROR" is printed as e
    }
}

public static void doSomethingWhichThrowsException() {
    try {
        throw new RuntimeException();
    } finally {
```

https://rules.sonarsource.com/java/RSPEC-1143

1/2

<div>should be grouped when used with anchors</div> <div> Bug</div>
<div>AssertJ methods setting the assertion context should come before an assertion</div> <div> Bug</div>
<div>AssertJ configuration should be applied</div> <div> Bug</div>
<div>JUnit5 test classes and methods should not be silently ignored</div> <div> Bug</div>

```
for (int i = 0; i < 10; i++) {
    //...
    if (q == i) {
        break; // ignored
    }
}

/* ... */
}
```

See

- [MITRE, CWE-584](#) - Return Inside Finally Block
- [CERT, ERR04-J](#) - Do not complete abruptly from a finally block

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