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## Java static code analysis

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the parameters of a public method

Code Smell

Assignments should not be redundant

Code Smell

Methods should not have identical implementations

Code Smell

"java.nio.Files#delete" should be preferred

Code Smell

Unused "private" classes should be removed

Code Smell

"Stream.peek" should be used with caution

Code Smell

"Map.get" and value test should be replaced with single method call

Code Smell

"@RequestMapping" methods should not be "private"

Code Smell

Raw types should not be used

Code Smell

"Arrays.stream" should be used for primitive arrays

Code Smell

Printf-style format strings should be used correctly

Code Smell

Assertion arguments should be passed in the correct order

Code Smell

### Unicode Grapheme Clusters should be avoided inside regex character classes

Bug

Major

regex

Analyze your code

When placing Unicode **Grapheme Clusters** (characters which require to be encoded in multiple **Code Points**) inside a character class of a regular expression, this will likely lead to unintended behavior.

For instance, the grapheme cluster `ö` requires two code points: one for `'c'`, followed by one for the *umlaut* modifier `'\u{0308}'`. If placed within a character class, such as `[ö]`, the regex will consider the character class being the enumeration `[c\u{0308}]` instead. It will, therefore, match every `'c'` and every *umlaut* that isn't expressed as a single codepoint, which is extremely unlikely to be the intended behavior.

This rule raises an issue every time Unicode Grapheme Clusters are used within a character class of a regular expression.

Noncompliant Code Example

```
"cödd".replaceAll("[öä]", "X"); // Noncompliant, print "XXXX"
```

Compliant Solution

```
"cödd".replaceAll("ö|ä", "X"); // print "cXXd"
```

Available In:

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https://rules.sonarsource.com/java/RSPEC-5868

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<div><div>Ternary operators should not be nested</div><div> Code Smell</div></div>
<div><div>"writeObject" should not be the only "synchronized" code in a class</div><div> Code Smell</div></div>
<div><div>Reflection should not be used to increase accessibility of classes, methods, or fields</div><div> Code Smell</div></div>
<div><div>Static fields should not be updated in constructors</div><div> Code Smell</div></div>