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Python static code analysis

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

All rules 216 | Vulnerability 29 | Bug 55 | Security Hotspot 31 | Code Smell 101

Tags

Search by name...

Functions should not have too many lines of code
Code Smell

Track uses of "NOSONAR" comments
Code Smell

Track comments matching a regular expression
Code Smell

Statements should be on separate lines
Code Smell

Functions should not contain too many return statements
Code Smell

Files should not have too many lines of code
Code Smell

Lines should not be too long
Code Smell

Methods and properties that don't access instance data should be static
Code Smell

New-style classes should be used
Code Smell

Parentheses should not be used after certain keywords
Code Smell

Track "TODO" and "FIXME" comments that do not contain a reference to a person
Code Smell

Module names should comply with a naming convention

Superfluous curly brace quantifiers should be avoided

Analyze your code

Code Smell Major regex

Curly brace quantifiers in regular expressions can be used to have a more fine-grained control over how many times the character or the sub-expression preceeding them should occur. They can be used to match an expression exactly n times with `{n}`, between n and m times with `{n,m}`, or at least n times with `{n,}`. In some cases, using such a quantifier is superfluous for the semantic of the regular expression, and it can be removed to improve readability. This rule raises an issue when one of the following quantifiers is encountered:

- `{1,1}` or `{1}`: they match the expression exactly once. The same behavior can be achieved without the quantifier.
- `{0,0}` or `{0}`: they match the expression zero times. The same behavior can be achieved by removing the expression.

Noncompliant Code Example

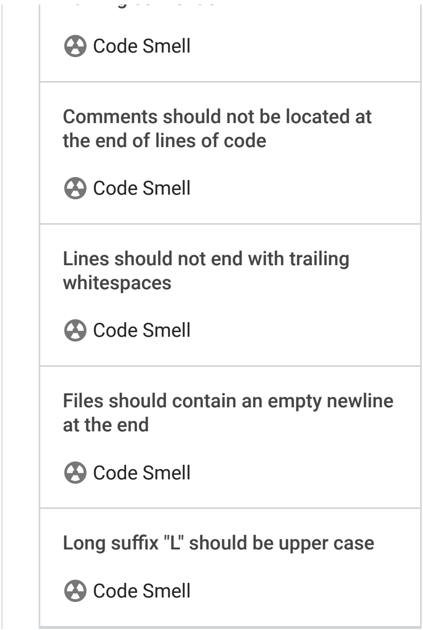
```
r"ab{1,1}c"
r"ab{1}c"
r"ab{0,0}c"
r"ab{0}c"
```

Compliant Solution

```
r"abc"
r"ac"
```

Available In:

sonarlint | sonarcloud | sonarqube



Code Smell

Comments should not be located at the end of lines of code

Code Smell

Lines should not end with trailing whitespaces

Code Smell

Files should contain an empty newline at the end

Code Smell

Long suffix "L" should be upper case

Code Smell