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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

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Code Smell 101

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Security Hotspot
Using regular expressions is security-sensitive
Security Hotspot
Dynamically executing code is security-sensitive
Security Hotspot
Cyclomatic Complexity of functions should not be too high
Code Smell
Control flow statements "if", "for", "while", "try" and "with" should not be nested too deeply
Code Smell
Cyclomatic Complexity of classes should not be too high
Code Smell
"\" should only be used as an escape character outside of raw strings
Bug
Using shell interpreter when executing OS commands is security-sensitive
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Functions should use "return" consistently
Code Smell
Python parser failure
Code Smell
Files should not be too complex
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Docstrings should be defined
Code Smell

Identical expressions should not be used on both sides of a binary operator

Analyze your code

Bug Major ?

Using the same value on either side of a binary operator is almost always a mistake. In the case of logical operators, it is either a copy/paste error and therefore a bug, or it is simply wasted code, and should be simplified. In the case of bitwise operators and most binary mathematical operators, having the same value on both sides of an operator yields predictable results, and should be simplified.

Note that this rule will raise issues on `a == a` and `a != a` expressions which are sometime used to detect NaN values. It is recommended to use instead `math.isnan` or an equivalent function. This will improve code readability.

Noncompliant Code Example

```
if a == a: # Noncompliant
    work()

if a != a: # Noncompliant
    work()

if a == b and a == b: # Noncompliant
    work()

if a == b or a == b: # Noncompliant
    work()

j = 5 / 5 # Noncompliant
k = 5 - 5 # Noncompliant
```

Exceptions

The following are ignored:

- The expression `1 << 1`

See

- {rule:python:S1656} - Implements a check on `=`.

Available In:

sonarlint | sonarcloud | sonarqube

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

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