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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

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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
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Bug
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Functions should use "return" consistently
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Python parser failure
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Files should not be too complex
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Docstrings should be defined
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Functions should not have too many lines of code
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Track uses of "NOSONAR" comments
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Track comments matching a regular expression

Loops with at most one iteration should be refactored

Analyze your code

Bug Major

A loop with at most one iteration is equivalent to the use of an `if` statement to conditionally execute one piece of code. No developer expects to find such a use of a loop statement. If the initial intention of the author was really to conditionally execute one piece of code, an `if` statement should be used instead.

At worst that was not the initial intention of the author and so the body of the loop should be fixed to use the nested `return`, `break` or `raise` statements in a more appropriate way.

Noncompliant Code Example


```
while node is not None:
    node = node.parent()
    print(node)
    break
```

Compliant Solution

```
while node is not None:
    node = node.parent()
    print(node)
```

Available In:


sonarlint | sonarcloud | sonarqube

 Code Smell


Statements should be on separate lines

 Code Smell


Functions should not contain too many return statements

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Files should not have too many lines of code

 Code Smell

Lines should not be too long

 Code Smell