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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

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Functions should not have too many lines of code	Code Smell
Track uses of "NOSONAR" comments	Code Smell
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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	

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

Analyze your code

Code Smell Minor ? convention

This rule verifies that single-line comments are not located at the ends of lines of code. The main idea behind this rule is that in order to be really readable, trailing comments would have to be properly written and formatted (correct alignment, no interference with the visual structure of the code, not too long to be visible) but most often, automatic code formatters would not handle this correctly: the code would end up less readable. Comments are far better placed on the previous empty line of code, where they will always be visible and properly formatted.


Noncompliant Code Example

```
a = b + c    # This is a trailing comment that can be ve
```


Compliant Solution

```
# This very long comment is better placed before the li
a = b + c
```


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 Code Smell


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

 Code Smell


Lines should not end with trailing whitespaces

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Files should contain an empty newline at the end

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Long suffix "L" should be upper case

 Code Smell