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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	

Character classes should be preferred over reluctant quantifiers in regular expressions

Analyze your code

Code Smell Minor regex

Using reluctant quantifiers (also known as lazy or non-greedy quantifiers) in patterns can often lead to needless backtracking, making the regex needlessly inefficient and potentially vulnerable to catastrophic backtracking. Particularly when using .\*? or .+? to match anything up to some terminating character, it is usually a better idea to instead use a greedily or quantified negated character class containing the terminating character. For example <.+?> should be replaced with <[^>]\*> or <[^>]+>.

Noncompliant Code Example

```
r '<.+?>'  
r '".*?"'
```

Compliant Solution

```
r '<[^>]+>'  
r '"[^"]*"'
```

Exceptions

This rule only applies in cases where the reluctant quantifier can easily be replaced with a negated character class. That means the repetition has to be terminated by a single character or character class. Patterns such as the following, where the alternatives without reluctant quantifiers are more complicated, are therefore not subject to this rule:

```
/<!--.*?-->/  
-/\*.*?\*/-
```

Available In:  
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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

 Code Smell

Long suffix "L" should be upper case

 Code Smell