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Python static code analysis

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

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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

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Statements should be on separate lines

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Functions should not contain too many return statements

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Files should not have too many lines of code

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Lines should not be too long

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

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New-style classes should be used

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Parentheses should not be used after certain keywords

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

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Module names should comply with a naming convention

Character classes in regular expressions should not contain only one character

Analyze your code

☢ Code Smell   ⬥ Major ❓   🏷 regex

Character classes in regular expressions are a convenient way to match one of several possible characters by listing the allowed characters or ranges of characters. If a character class contains only one character, the effect is the same as just writing the character without a character class.

Thus, having only one character in a character class is usually a simple oversight that remained after removing other characters of the class.

Noncompliant Code Example

```
r"a[b]c"
```

Compliant Solution

```
r"abc"
```

Exceptions

This rule does not raise when the character inside the class is a metacharacter. This notation is sometimes used to avoid escaping (e.g., `[.]{3}` to match three dots).

Available In:

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naming convention

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

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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

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