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# C# static code analysis

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

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"protected" members
Code Smell
Underscores should be used to make large numbers readable
Code Smell
"ToString()" calls should not be redundant
Code Smell
"==" should not be used when "Equals" is overridden
Code Smell
An abstract class should have both abstract and concrete methods
Code Smell
Multiple variables should not be declared on the same line
Code Smell
Culture should be specified for "string" operations
Code Smell
"switch" statements should have at least 3 "case" clauses
Code Smell
break statements should not be used except for switch cases
Code Smell
String literals should not be duplicated
Code Smell
Files should contain an empty newline at the end
Code Smell
Unused "using" should be removed
Code Smell

## Number patterns should be regular

Analyze your code

- Code Smell
- Critical
- suspicious

The use of punctuation characters to separate subgroups in a number can make the number more readable. For instance consider 1,000,000,000 versus 1000000000. But when the grouping is irregular, such as 1,000,00,000; it indicates an error.

This rule raises an issue when underscores ( `_` ) are used to break a number into irregular subgroups.

### Noncompliant Code Example

```
int duos = 1_00_00;
int million = 1_000_00_000; // Noncompliant
int thousand = 1000;
int tenThousand = 100_00; // Noncompliant
```

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**A close curly brace should be located at the beginning of a line**

 Code Smell

**Tabulation characters should not be used**

 Code Smell

**Methods and properties should be named in PascalCase**

 Code Smell

**Track uses of in-source issue suppressions**

 Code Smell