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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

Enumeration members should not be named "Reserved"

Analyze your code

Code Smell Major ?

If an enum member's name contains the word "reserved" it implies it is not currently used and will be change in the future. However changing an enum member is a breaking change and can create significant problems. There is no need to reserve an enum member since a new member can be added in the future, and such an addition will usually not be a breaking change.

This rule raises an issue when the name of an enumeration member contains "reserved".

Noncompliant Code Example

```
using System;

namespace MyLibrary
{
    public enum Color
    {
        None,
        Red,
        Orange,
        Yellow,
        ReservedColor // Noncompliant
    }
}
```

Available In:
sonarlint | sonarcloud | sonarqube

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