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C# static code analysis

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

| All rules | 409 | Vulnerability | 34 | Bug | 76 | Security Hotspot | 28 | Code Smell | 271 | Quick Fix | 52 |

Tags ⌄   Search by name...

"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

Modulus results should not be checked for direct equality

Analyze your code

⊘ Code Smell ⬆ Critical ⓘ 🏷 suspicious

When the modulus of a negative number is calculated, the result will either be negative or zero. Thus, comparing the modulus of a variable for equality with a positive number (or a negative one) could result in unexpected results.

Noncompliant Code Example

```
public bool IsOdd(int x)
{
    return x % 2 == 1;  // Noncompliant; if x is an odd negati
}
```

Compliant Solution

```
public bool IsOdd(int x)
{
    return x %2 != 0;
}
```

or

```
public bool IsOdd(uint x)
{
    return x %2 == 1;
}
```

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