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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...

Redundant modifiers should not be used
⊘ Code Smell

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

"Exception" should not be caught when not required by called methods
⊘ Code Smell

"sealed" classes should not have "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

"Equals(Object)" and "GetHashCode()" should be overridden in pairs

Analyze your code

🐛 Bug   ⊘ Minor ?   🏷 cwe

There is a contract between `Equals(object)` and `GetHashCode()`: If two objects are equal according to the `Equals(object)` method, then calling `GetHashCode()` on each of them must yield the same result. If this is not the case, many collections won't handle class instances correctly.

In order to comply with the contract, `Equals(object)` and `GetHashCode()` should be either both inherited, or both overridden.

Noncompliant Code Example

```
class MyClass    // Noncompliant - should also override "GetH
{
    public override bool Equals(object obj)
    {
        // ...
    }
}
```

Compliant Solution

```
class MyClass
{
    public override bool Equals(object obj)
    {
        // ...
    }

    public override int GetHashCode()
    {
        // ...
    }
}
```

See

- MITRE, CWE-581 - Object Model Violation: Just One of Equals and Hashcode Defined

Available In:

sonarlint | sonarcloud | sonarqube

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

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

Code Smell