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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

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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

Nested code blocks should not be used

Analyze your code

Code Smell | Minor | bad-practice

Nested code blocks can be used to create a new scope and restrict the visibility of the variables defined inside it. Using this feature in a method typically indicates that the method has too many responsibilities, and should be refactored into smaller methods.

Noncompliant Code Example

```
public void Evaluate()
{
    /* ... */
    {     // Noncompliant - nested code block '{' ... '}'
          int a = stack.pop();
          int b = stack.pop();
          int result = a + b;
          stack.push(result);
    }
    /* ... */
}
```

Compliant Solution

```
public void Evaluate()
{
    /* ... */
    StackAdd();
    /* ... */
}

private void StackAdd()
{
      int a = stack.pop();
      int b = stack.pop();
      int result = a + b;
      stack.push(result);
}
```

Exceptions

The usage of a code block after a "case" is allowed for this rule.

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