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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

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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

"switch/Select" statements should contain a "default/Case Else" clauses

Analyze your code

Code Smell Critical cwe

The requirement for a final default clause is defensive programming. The clause should either take appropriate action, or contain a suitable comment as to why no action is taken. Even when the switch covers all current values of an enum, a default case should still be used because there is no guarantee that the enum won't be extended.

Noncompliant Code Example

```
int foo = 42;
switch (foo) // Noncompliant
{
    case 0:
        Console.WriteLine("foo = 0");
        break;
    case 42:
        Console.WriteLine("foo = 42");
        break;
}
```

Compliant Solution





```
int foo = 42;
switch (foo) // Compliant
{
    case 0:
        Console.WriteLine("foo = 0");
        break;
    case 42:
        Console.WriteLine("foo = 42");
        break;
    default:
        throw new InvalidOperationException("Unexpected value fo
}
```

See

- [MITRE, CWE-478](#) - Missing Default Case in Switch Statement

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