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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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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

## Console logging should not be used

Analyze your code

Vulnerability Minor

Debug statements are always useful during development. But include them in production code - particularly in code that runs client-side - and you run the risk of inadvertently exposing sensitive information.

### Noncompliant Code Example

```
private void DoSomething()
{
    // ...
    Console.WriteLine("so far, so good..."); // Noncompliant
    // ...
}
```

### Exceptions

The following are ignored by this rule:

- Console Applications
- Calls in methods decorated with [Conditional ( "DEBUG" )]
- Calls included in DEBUG preprocessor branches (#if DEBUG)

### See

- [OWASP Top 10 2017 Category A3](#) - Sensitive Data Exposure

### Deprecated

This rule is deprecated; use {rule:csharpsquid:S106} instead.

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