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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

### Duplicate casts should not be made

Analyze your code

Code Smell Minor performance

Because the `is` operator performs a cast if the object is not null, using `is` to check type and then casting the same argument to that type, necessarily performs two casts. The same result can be achieved more efficiently with a single cast using `as`, followed by a null-check.

#### Noncompliant Code Example

```
if (x is Fruit) // Noncompliant
{
    var f = (Fruit)x; // or x as Fruit
    // ...
}
```

#### Compliant Solution

```
// C# 6
var f = x as Fruit;
if (f != null)
{
    // ...
}
// C# 7
if (x is Fruit fruit)
{
    // ...
}
```

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