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C# static code analysis

Unique rules to find Bugs, Vulnerabilities, Security Hotspots, and Code Smells in your C# code

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"protected" members	
Underscores should be used to make large numbers readable	
"ToString()" calls should not be redundant	
"==" should not be used when "Equals" is overridden	
An abstract class should have both abstract and concrete methods	
Multiple variables should not be declared on the same line	
Culture should be specified for "string" operations	
"switch" statements should have at least 3 "case" clauses	
break statements should not be used except for switch cases	
String literals should not be duplicated	
Files should contain an empty newline at the end	
Unused "using" should be removed	

Culture should be specified for "string" operations

Analyze your code

Code Smell Minor unpredictable

`string.ToLower()`, `ToUpper`, `IndexOf`, `LastIndexOf`, and `Compare` are all culture-dependent, as are some (floating point number and `DateTime`-related) calls to `ToString`. Fortunately, all have variants which accept an argument specifying the culture or formatter to use. Leave that argument off and the call will use the system default culture, possibly creating problems with international characters.

`string.CompareTo()` is also culture specific, but has no overload that takes a culture information, so instead it's better to use `CompareOrdinal`, or `Compare` with culture.

Calls without a culture may work fine in the system's "home" environment, but break in ways that are extremely difficult to diagnose for customers who use different encodings. Such bugs can be nearly, if not completely, impossible to reproduce when it's time to fix them.

Noncompliant Code Example

```
var lowered = someString.ToLower(); //Noncompliant
```

Compliant Solution

```
var lowered = someString.ToLower(CultureInfo.InvariantCulture)
```

or

```
var lowered = someString.ToLowerInvariant();
```

Available In:

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