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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
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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 |

Calculations should not overflow

Analyze your code

Bug Major overflow

Numbers are infinite, but the types that hold them are not. Each numeric type has hard upper and lower bounds. Try to calculate or assign numbers beyond those bounds, and the result will be a value that has silently wrapped around from the expected positive value to a negative one, or vice versa.

This rule is only available for analyses run on Windows machines. It will not be reported in analyses run on any other OS.

Noncompliant Code Example

```
public int getTheNumber(int val) {  
    if (val <= 0) {  
        return val;  
    }  
    int num = int.MaxValue;  
    return num + val; // Noncompliant  
}
```

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