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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

Bug 76

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Code Smell 271

Quick Fix 52

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Code Smell

Variables should not be checked against the values they're about to be assigned

Code Smell

Methods should not return constants

Code Smell

Attribute, EventArgs, and Exception type names should end with the type being extended

Code Smell

Loops should be simplified with "LINQ" expressions

Code Smell

Namespaces should not be empty

Code Smell

Non-derived "private" classes and records should be "sealed"

Code Smell

"string.IsNullOrEmpty" should be used

Code Smell

Implementations should be provided for "partial" methods

Code Smell

Duplicate casts should not be made

Code Smell

Methods should not return values that are never used

Code Smell

Caller information arguments should not be provided explicitly

Code Smell

Method calls should not resolve

For-loop conditions should be true at least once

Analyze your code

Bug Major ?

If a for loop's condition is false before the first loop iteration, the loop will never be executed. Such loops are almost always bugs, particularly when the initial value and stop conditions are hard-coded.

Noncompliant Code Example

```
for (int i = 10; i < 10; i++) // Noncompliant
{
    // ...
}
```

Compliant Solution

```
for (int i = 0; i < 10; i++)
{
    // ...
}
```

Available In:

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**ambiguously to overloads with  
"params"**

 Code Smell

**"catch" clauses should do more than  
rethrow**

 Code Smell

**Generic exceptions should not be  
ignored**

 Code Smell

**Mutable fields should not be "public  
static"**

 Code Smell