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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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Code Smell 271

Quick Fix 52

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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

Collections should implement the generic interface

Analyze your code

Code Smell Major ?

The NET Framework 2.0 introduced the generic interface `System.Collections.Generic.IEnumerable<T>` and it should be preferred over the older, non generic, interfaces.

This rule raises an issue when a public type implements `System.Collections.IEnumerable`.

Noncompliant Code Example

```
using System;
using System.Collections;

public class MyData
{
    public MyData()
    {
    }
}

public class MyList : CollectionBase // Noncompliant
{
    public void Add(MyData data)
    {
        InnerList.Add(data);
    }

    // ...
}
```





Compliant Solution

```
using System;
using System.Collections.ObjectModel;

public class MyData
{
    public MyData()
    {
    }
}

public class MyList : Collection<MyData>
{
    // Implementation...
}
```

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