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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

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

"params" should be used instead of "varargs"

Analyze your code

Code Smell Minor ?

A method using the VarArgs calling convention is not Common Language Specification (CLS) compliant and might not be accessible across programming languages, while the params keyword works the same way and is CLS compliant.

This rule raises an issue when a public or protected type contains a public or protected method that uses the VarArgs calling convention.

Noncompliant Code Example

```
using System;

namespace MyLibrary
{
    public class Foo
    {
        public void Bar(__arglist) // Noncompliant
        {
            ArgIterator argumentIterator = new ArgIterator(_
                for(int i = 0; i < argumentIterator.GetRemaining
                {
                    Console.WriteLine(
                        __refvalue(argumentIterator.GetNextArg())
                }
            }
        }
    }
}
```

Compliant Solution

```
using System;

[assembly: CLSCompliant(true)]
namespace MyLibrary
{
    public class Foo
    {
        public void Bar(params string[] wordList)
        {
            for(int i = 0; i < wordList.Length; i++)
            {
                Console.WriteLine(wordList[i]);
            }
        }
    }
}
```

Exceptions

Interop methods using VarArgs calling convention do not raise an issue.

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

```
[DllImport("msvcrt40.dll")]  
public static extern int printf(string format, __arglist); /
```

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