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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

## Reading the Standard Input is security-sensitive

Analyze your code

Security Hotspot Critical ⓘ

Reading Standard Input is security-sensitive. It has led in the past to the following vulnerabilities:

- [CVE-2005-2337](#)
- [CVE-2017-11449](#)

It is common for attackers to craft inputs enabling them to exploit software vulnerabilities. Thus any data read from the standard input (stdin) can be dangerous and should be validated.

This rule flags code that reads from the standard input.

**Ask Yourself Whether**

- data read from the standard input is not sanitized before being used.

You are at risk if you answered yes to this question.

**Recommended Secure Coding Practices**

[Sanitize](#) all data read from the standard input before using it.

**Sensitive Code Example**

```
using System;
public class C
{
    public void Main()
    {
        Console.In; // Sensitive
        var code = Console.Read(); // Sensitive
        var keyInfo = Console.ReadKey(...); // Sensitive
        var text = Console.ReadLine(); // Sensitive
        Console.OpenStandardInput(...); // Sensitive
    }
}
```

**Exceptions**

This rule does not raise issues when the return value of the `Console.Read`, `Console.ReadKey` or `Console.ReadLine` methods is ignored.

```
using System;
public class C
{
    public void Main()
    {
        Console.ReadKey(...); // Return value is ignored
        Console.ReadLine(); // Return value is ignored
    }
}
```

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

#### See

- [MITRE, CWE-20](#) - Improper Input Validation

#### Deprecated

This rule is deprecated, and will eventually be removed.

Available In:

**sonarcloud**  **sonarqube** 

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