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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

Tags

Search by name...

"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

### Track lack of copyright and license headers

Analyze your code

Code Smell Blocker Quick Fix

Each source file should start with a header stating file ownership and the license which must be used to distribute the application.

This rule must be fed with the header text that is expected at the beginning of every file.

The headerFormat must end with an empty line if you want to have an empty line between the file header and the first line for your source file (using, namespace...).

For example, if you want the source file to look like this

```
// Copyright (c) SonarSource. All Rights Reserved. Licensed  
  
namespace Foo  
{  
}
```

then the headerFormat parameter should end with an empty line like this

```
// Copyright (c) SonarSource. All Rights Reserved. Licensed
```

### Compliant Solution

```
/*  
 * SonarQube, open source software quality management tool.  
 * Copyright (C) 2008-2013 SonarSource  
 * mailto:contact AT sonarsource DOT com  
 *  
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 * along with this program; if not, write to the Free Softwa  
 * Inc., 51 Franklin Street, Fifth Floor, Boston, MA 02110-  
 */
```

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

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