



```
C# static code analysis
             Unique rules to find Bugs, Vulnerabilities, Security
             Hotspots, and Code Smells in your C# code
                                                                                                 Quick 52
Fix
                                                                            ⊗ Code
Smell
   409
                                                         Security
                                                                    (28)
             6 Vulnerability (34)
                                      # Bug (76)
                                                         Hotspot
                                                        Tags
                                                                                     Search by name.
R Bug
                                             Parameter validation in
                                             "async"/"await" methods should be
                                                                                           Analyze your code
Calls to "async" methods should not
                                             wrapped
be blocking
Code Smell
                                             async-await
Child class fields should not shadow
parent class fields
                                             Because of the way async/await methods are rewritten by the compiler, any
                                             exceptions thrown during the parameters check will happen only when the task is
Code Smell
                                             observed. That could happen far away from the source of the buggy code or never
                                             happen for fire-and-forget tasks.
Track lack of copyright and license
                                             Therefore it is recommended to split the method into two: an outer method
headers
                                             handling the parameter checks (without being async/await) and an inner method
                                             to handle the iterator block with the async/await pattern.
A Code Smell
                                             This rule raises an issue when an async method throws any exception derived
Exit methods should not be called
                                             from ArgumentException and contains await keyword.
A Code Smell
                                             Noncompliant Code Example
Classes should "Dispose" of members
                                               public static async Task SkipLinesAsync(this TextReader read
from the classes' own "Dispose'
methods
                                                    if (reader == null) { throw new ArgumentNullException(na
```

Compliant Solution

}

Using regular expressions is security-

Interface methods should be callable

Child class fields should not differ from parent class fields only by

sensitive

Security Hotspot

by derived types Code Smell

```
public static Task SkipLinesAsync(this TextReader reader, in
    if (reader == null) { throw new ArgumentNullException(na
    if (linesToSkip < 0) { throw new ArgumentOutOfRangeExcep
    return reader.SkipLinesInternalAsync(linesToSkip);
}
private static async Task SkipLinesInternalAsync(this TextRe
{
    for (var i = 0; i < linesToSkip; ++i)</pre>
        var line = await reader.ReadLineAsync().ConfigureAwa
        if (line == null) { break; }
}
```

if (linesToSkip < 0) { throw new ArgumentOutOfRangeExcep

var line = await reader.ReadLineAsync().ConfigureAwa

for (var i = 0; i < linesToSkip; ++i)</pre>

if (line == null) { break; }

Available In:

sonarlint ⊕ | sonarcloud ↔ | sonarqube

capitalization

Code Smell

Pointers to unmanaged memory should not be visible

Code Smell

Number patterns should be regular

Code Smell

Code Smell

Code Smell

Code Smell

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Code Smell

Unchanged local variables should be

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