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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

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Search by name...



Redundant parentheses should not be used

Code Smell

"GC.SuppressFinalize" should not be invoked for types without destructors

Code Smell

Members should not be initialized to default values

Code Smell

Sequential tests should not check the same condition

Code Smell

Redundant modifiers should not be used

Code Smell

Methods and properties that don't access instance data should be static

Code Smell

"Exception" should not be caught when not required by called methods

Code Smell

"sealed" classes should not have "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

Results of integer division should not be assigned to floating point variables

Analyze your code

Bug Minor ? cwe overflow sans-top25

When division is performed on ints, the result will always be an int. You can assign that result to a double, float or decimal with automatic type conversion, but having started as an int, the result will likely not be what you expect. If the result of int division is assigned to a floating-point variable, precision will have been lost before the assignment. Instead, at least one operand should be cast or promoted to the final type before the operation takes place.

Noncompliant Code Example

```
static void Main()
{
    decimal dec = 3/2; // Noncompliant
    Method(3/2); // Noncompliant
}

static void Method(float f) { }
```

Compliant Solution

```
static void Main()
{
    decimal dec = (decimal)3/2;
    Method(3.0F/2);
}

static void Method(float f) { }
```

See

- [MITRE, CWE-190](#) - Integer Overflow or Wraparound
- [SANS Top 25](#) - Risky Resource Management

Available In:

sonarlint sonarcloud sonarqube

 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