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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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Code Smell

Locales should be set for data types

Code Smell

Literals should not be passed as localized parameters

Code Smell

Operators should be overloaded consistently

Code Smell

Method signatures should not contain nested generic types

Code Smell

Enumeration members should not be named "Reserved"

Code Smell

"System.Uri" arguments should be used instead of strings

Code Smell

Collection properties should be readonly

Code Smell

Disposable types should declare finalizers

Code Smell

String URI overloads should call "System.Uri" overloads

Code Smell

URI properties should not be strings

Code Smell

URI return values should not be strings

Code Smell

URI Parameters should not be strings

Multiple "OrderBy" calls should not be used

Analyze your code

Code Smell Major ? Quick Fix ? performance

There's no point in chaining multiple `OrderBy` calls in a LINQ; only the last one will be reflected in the result because each subsequent call completely reorders the list. Thus, calling `OrderBy` multiple times is a performance issue as well, because all of the sorting will be executed, but only the result of the last sort will be kept.

Instead, use `ThenBy` for each call after the first.

Noncompliant Code Example





```
var x = personList
    .OrderBy(person => person.Age)
    .OrderBy(person => person.Name) // Noncompliant
    .ToList(); // x is sorted by Name, not sub-sorted
```

Compliant Solution

```
var x = personList
    .OrderBy(person => person.Age)
    .ThenBy(person => person.Name)
    .ToList();
```

Available In:

sonarlint | sonarcloud | sonarqube

 Code Smell
Custom attributes should be marked with "System.AttributeUsageAttribute"  Code Smell
Assemblies should explicitly specify COM visibility  Code Smell
Assemblies should be marked as CLS compliant  Code Smell
"Generic.List" instances should not be part of public APIs