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Swift static code analysis

Unique rules to find Bugs, Vulnerabilities, Security Hotspots, and Code Smells in your SWIFT code

All rules (119) 6 Vulnerability 3 **₩** Bug 14 Code Smell (99) Security Hotspot 3

Tags

👬 Bug 🛮 🔷 Major 🕝

Hard-coded credentials are securitysensitive Security Hotspot Methods and field names should not be the same or differ only by capitalization Code Smell Cipher algorithms should be robust Vulnerability Using weak hashing algorithms is security-sensitive Security Hotspot

Cognitive Complexity of functions should not be too high

Code Smell

"try!" should not be used

Code Smell

String literals should not be duplicated

Code Smell

Functions and closures should not be empty

Code Smell

Collection elements should not be replaced unconditionally

👬 Bug

Collection sizes comparisons should make sense

🖷 Bug

All branches in a conditional structure should not have exactly the same implementation

📆 Bug

Infix operators that end with "=" should update their left operands

📆 Bug

Floating point numbers should not be tested for equality

Analyze your code

Search by name...

Floating point math is imprecise because of the challenges of storing such values in a binary representation. Even worse, floating point math is not associative; push a Float or a Double through a series of simple mathematical operations and the answer will be different based on the order of those operation because of the rounding that takes place at each step.

Even simple floating point assignments are not simple:

var f: Float = 0.1 // 0.100000014901161193847656 var d: Double = 0.1 // 0.10000000000000055511151

Therefore, the use of the equality (==) and inequality (!=) operators on Float or Double values is almost always an error.

This rule checks for the use of direct and indirect equality/inequality tests on floats and doubles.

Noncompliant Code Example

```
var myNumber: Float = 0.3 + 0.6
if myNumber == 0.9 { // Noncompliant. Because of floating r
    // ...
if myNumber <= 0.9 && myNumber >= 0.9 { // Noncompliant inc
if myNumber < 0.9 || myNumber > 0.9 { // Noncompliant indir
  // ...
}
```

Available In:

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Precedence and associativity of standard operators should not be changed
👬 Bug
Return values from functions without side effects should not be ignored
∰ Bug
Related "if/else if" statements and "cases" in a "switch" should not have the same condition
👚 Bug
Identical expressions should not be used on both sides of a binary operator
n Bug
All code should be reachable
ℛ Bug
Loops with at most one iteration should be refactored
∰ Bug
"IBInspectable" should be used correctly
Code Smell
Functions should not have identical implementations
☼ Code Smell
Ternary operators should not be nested
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Closure expressions should not be