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## **Objective C static code analysis**

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

o Security ⊗ Code (212) O Quick 13 Fix ΑII 315 **R** Bug (75) 6 Vulnerability 10 rules Hotspot

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Tags

"memset" should not be used to delete sensitive data Vulnerability POSIX functions should not be called with arguments that trigger buffer overflows ■ Vulnerability Function-like macros should not be invoked without all of their arguments 📆 Bug The address of an automatic object should not be assigned to another object that may persist after the first object has ceased to exist 📆 Bug "pthread\_mutex\_t" should be unlocked in the reverse order they were locked 📆 Bug "pthread\_mutex\_t" should be properly initialized and destroyed 🖷 Bug "pthread\_mutex\_t" should not be consecutively locked or unlocked twice 📆 Bug

Functions with "noreturn" attribute

"memcmp" should only be called with pointers to trivially copyable types

Stack allocated memory and nonowned memory should not be freed

Closed resources should not be

Dynamically allocated memory should

should not return

with no padding

📆 Bug

🖷 Bug

📆 Bug

accessed

📆 Bug

be released

📆 Bug

"volatile" should not be used to Analyze your code qualify objects for which the meaning is not defined 🙀 Bug 🛛 Oritical 🕝 volatile can be used to qualify many objects in C and C++, but only a few of the possible places have a well-defined meaning (global variables and local variables for instance). There is no well-defined meaning to the use of volatile to qualify a function return type or a function parameter. Furthermore, for structured bindings, the volatile qualifier appertains to the decomposed object which cannot be referred to. Since C++20, these uses are deprecated, but even before you should not use volatile in those places. This rule raises an issue for a volatile qualified function return type, function parameter, and structured binding (available in C++ since C++17). **Noncompliant Code Example** int volatile f(int volatile i); // Noncompliant, both for the void g() {

Search by name...

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Developer

auto volatile [a, b] = getPair(); // Noncompliant

Freed memory should not be used  Recursion should not be infinite  Bug  Recursion should not be infinite  Bug  Resources should be closed  Bug  Resources should be closed  Code Smell  Switch labels should not be nested inside non-switch blocks  Code Smell  Memory access should be explicitly bounded to prevent buffer overflows  Replication should not lead to unexpected behavior at runtime  Bug  Recursion should not be infinite  Security Bug  Resources should be closed  Code Smell  Switch labels should not be nested inside non-switch blocks  Code Smell	
Memory locations should not be released more than once	Freed memory should not be used
released more than once  ## Bug  Memory access should be explicitly bounded to prevent buffer overflows  ## Bug  Printf-style format strings should not lead to unexpected behavior at runtime  ## Bug  Recursion should not be infinite  ## Bug  Resources should be closed  ## Bug  Hard-coded credentials are security-sensitive  ## Security Hotspot  "goto" should jump to labels declared later in the same function  ## Code Smell  Only standard forms of the "defined" directive should be used  ## Code Smell  Switch labels should not be nested inside non-switch blocks	<b>₩</b> Bug
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