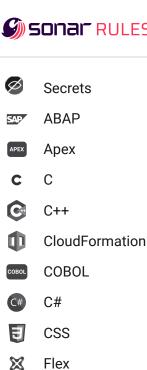
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Objective C static code analysis

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

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 should not return 📆 Bug "memcmp" should only be called with pointers to trivially copyable types

with no padding

Stack allocated memory and nonowned memory should not be freed

Closed resources should not be

Dynamically allocated memory should

🖷 Bug

📆 Bug

accessed

📆 Bug

be released

📆 Bug

Header guards should be followed Analyze your code by according "#define" macro unpredictable Include guards, wrapping around the entire content of a header file, are a best practice that ensure that no matter how many times the header is actually included in a translation unit, its content will only be seen once. The include guard pattern is made up of four parts: • #ifndef at the top of the file, with a unique macro name (usually the name relates to the name of the file, to ensure uniqueness). • #define with the same macro name. • The content of the file • #endif at the end of the file The rule raises an issue when the name in the second part differs from the name in the first (usually because of a typo or a copy/paste issue). **Noncompliant Code Example** #ifndef MYFILE_H #define MY_FILE_H // Noncompliant //... #endif **Compliant Solution** #ifndef MYFILE H #define MYFILE_H //... #endif Available In: Developer sonarcloud 🐼 | sonarqube "

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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	
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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	₩ Bug
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