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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

ΑII 315 6 Vulnerability 10 rules

R Bug (75)

• Security Hotspot ⊗ Code (212)

O Quick 13 Fix

Analyze your code

Tags

least 3 "case" clauses

"switch" statements should have at

Search by name...

"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

🖷 Bug

Stack allocated memory and nonowned memory should not be freed

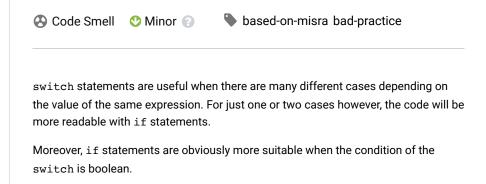
📆 Bug

Closed resources should not be accessed

📆 Bug

Dynamically allocated memory should be released

👬 Bug



Here are the rules to count the cases:

- default is counted as a case.
- If there is no default clause, the case count is incremented by one (to account for the else branch of an equivalent if).
- All the cases falling through to default are not counted (they would all be the else branch of the equivalent if).

Noncompliant Code Example

```
switch (variable) {
  case 0:
    doSomething();
    break;
  default:
    doSomethingElse();
    break;
}
```

Compliant Solution

```
if (variable == 0) {
  doSomething();
} else {
  doSomethingElse();
```

See

• MISRA C:2012, 16.6 - Every switch statement shall have at least two switch-

Available In:

sonarcloud 🚳 | sonarqube | Developer Edition

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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 | |
|--|----------------------------------|
| Memory locations should not be released more than once | Freed memory should not be used |
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