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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

All rules 315

Vulnerability 10

Bug 75

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Quick Fix 13

Tags

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

"memcpy" should only be called with pointers to trivially copyable types with no padding

Bug

Stack allocated memory and non-owned memory should not be freed

Bug

Closed resources should not be accessed

Bug

Dynamically allocated memory should be released

Bug

Recursion should not be infinite

Analyze your code

Bug Blocker suspicious

Recursion happens when control enters a loop that has no exit. This can happen a method invokes itself, when a pair of methods invoke each other, or when goto statements are used to move between two segments of code. It can be a useful tool, but unless the method includes a provision to break out of the recursion and return, the recursion will continue until the stack overflows and the program crashes.

Noncompliant Code Example











```
int pow(int num, int exponent) { // Noncompliant; no condition
    num = num * pow(num, exponent-1);
    return num; // this is never reached
}

void internalRecursion(int i) {
    start:
    goto end;
    end:
    goto start; // Noncompliant; there's no way to break out
}
```

Compliant Solution

```
int pow(int num, int exponent) {
    if (exponent > 1) { // recursion now conditional and stop
        num = num * pow(num, exponent-1);
    }
    return num;
}
```

Available In: sonarcloud | sonarqube Developer Edition

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