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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

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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

"memcmp" 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

Conditional operators should not be nested

Analyze your code

Code Smell | Major | confusing

Just because you *can* do something, doesn't mean you should, and that's the case with nested ternary operations. Nesting ternary operators results in the kind of code that may seem clear as day when you write it, but six months later will leave maintainers (or worse - future you) scratching their heads and cursing.

Instead, err on the side of clarity, and use another line to express the nested operation as a separate statement.

Noncompliant Code Example

```
int max(int p1, int p2, int p3) {
  return p1 > p2 ? (p1 > p3 ? p1 : p3) : (p2 > p3 ? p2 : p3);
}
```

Compliant Solution

```
int max(int p1, int p2, int p3) {
  if (p1 > p2) {
    return p1 > p3 ? p1 : p3;
  } else {
    return p2 > p3 ? p2 : p3;
  }
}
```

Exceptions

For C++11 mode only, the issue is not raised for ternary operators used inside `constexpr` functions. In C++11 such functions are limited to just a return statement, so the use of a ternary operator is required in them. This restriction is lifted in later standards, and thus issues are raised.

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Freed memory should not be used

Bug

Memory locations should not be 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

Code Smell