Secrets
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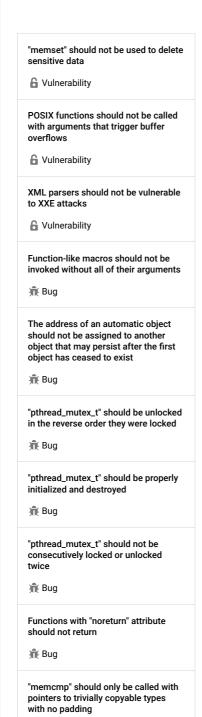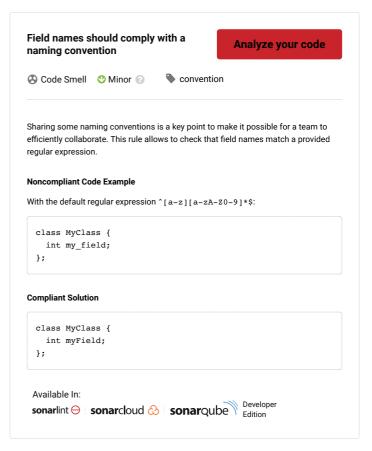Swift
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C static code analysis

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

All rules (311) | 🔒 Vulnerability (13) | 🐛 Bug (74) | 🛡 Security Hotspot (18) | ⊙ Code Smell (206) | ⚡ Quick Fix (14)

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

XML parsers should not be vulnerable to XXE attacks
🔒 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

Field names should comply with a naming convention   **Analyze your code**

⊙ Code Smell   ◆ Minor ⓘ   🏷 convention

Sharing some naming conventions is a key point to make it possible for a team to efficiently collaborate. This rule allows to check that field names match a provided regular expression.

Noncompliant Code Example

With the default regular expression ^[a-z][a-zA-Z0-9]*$:

```
class MyClass {
   int my_field;
};
```

Compliant Solution

```
class MyClass {
   int myField;
};
```

Available In:

sonarlint | sonarcloud | sonarqube Developer Edition

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

Freed memory should not be used