Secrets
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C static code analysis

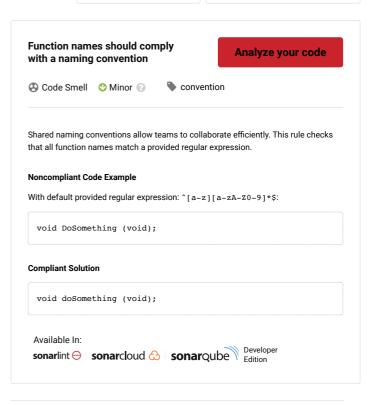Unique rules to find Bugs, Vulnerabilities, Security Hotspots, and Code Smells in your C code

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

Function names should comply with a naming convention

[Analyze your code]

⊘ Code Smell   🟢 Minor ⓘ   🏷 convention

Shared naming conventions allow teams to collaborate efficiently. This rule checks that all function names match a provided regular expression.

Noncompliant Code Example

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

```
void DoSomething (void);
```

Compliant Solution

```
void doSomething (void);
```

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