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## C++ static code analysis

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

ΑII 578 **6** Vulnerability 13 € rules

**R** Bug (111)

o Security Hotspot

**⊗** Code (436)

Quick 68 Fix

Analyze your code

Tags

"continue" should not be used

☼ Code Smell ♥ Minor ②

Search by name...

based-on-misra bad-practice

"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

Assigning to an optional should directly target the optional

📆 Bug

Result of the standard remove algorithms should not be ignored

🖷 Bug

"std::scoped\_lock" should be created with constructor arguments

🖷 Bug

Objects should not be sliced

📆 Bug

Immediately dangling references should not be created

📆 Bug

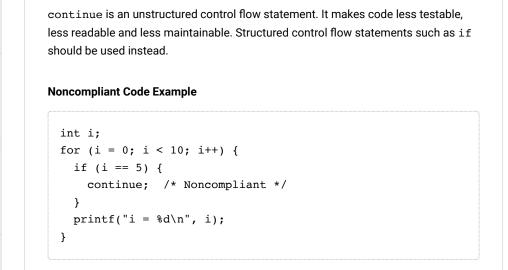
"pthread\_mutex\_t" should be unlocked in the reverse order they were locked

📆 Bug

"pthread\_mutex\_t" should be properly initialized and destroyed

📆 Bug

"pthread\_mutex\_t" should not be consecutively locked or unlocked



## **Compliant Solution**

```
int i;
for (i = 0; i < 10; i++) {
 if (i != 5) {
    printf("i = %d\n", i);
}
```

• MISRA C:2004, 14.5 - The continue statement shall not be used.

Available In:

sonarlint 😊 | sonarcloud 🙆 | sonarqube | Developer Edition

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I
🖟 Bug
"std::move" and "std::forward" should not be confused
<b>∰</b> Bug
A call to "wait()" on a  "std::condition_variable" should have a  condition
n Bug
A pointer to a virtual base class shall only be cast to a pointer to a derived class by means of dynamic_cast
<b>ਜ਼ਿ</b> Bug
Functions with "noreturn" attribute should not return
👬 Bug
RAII objects should not be temporary
्रे Bug
"memcmp" should only be called with pointers to trivially copyable types with no padding
🙃 Bug
"memcpy", "memmove", and "memset" should only be called with pointers to trivially copyable types
🙃 Bug
"std::auto_ptr" should not be used
<b>n</b> Bug
Destructors should be "noexcept"
🖟 Bug