Secrets
ABAP
Apex
C
C++
CloudFormation
COBOL
C#
CSS
Flex
Go
HTML
Java
JavaScript
Kotlin
Kubernetes
Objective C
PHP
PL/I
PL/SQL
Python
RPG
Ruby
Scala
Swift
Terraform
Text
TypeScript
T-SQL
VB.NET
VB6
XML

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
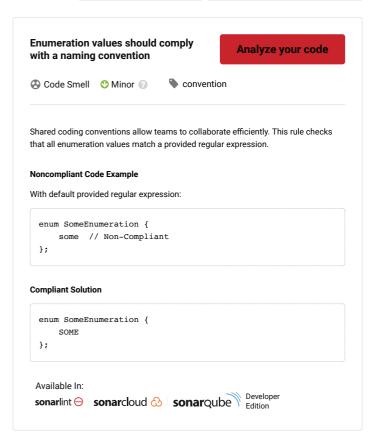
🔒 Vulnerability

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

Enumeration values should comply with a naming convention

Analyze your code

⊘ Code Smell   ✓ Minor ❓   🏷 convention

Shared coding conventions allow teams to collaborate efficiently. This rule checks that all enumeration values match a provided regular expression.

Noncompliant Code Example

With default provided regular expression:

```
enum SomeEnumeration {
    some  // Non-Compliant
};
```

Compliant Solution

```
enum SomeEnumeration {
    SOME
};
```

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