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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

- All rules** 315
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"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
"memcpy" 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

Comments should not be located at the end of lines of code

Analyze your code

 Code Smell

 Minor 

 convention

This rule verifies that single-line comments are not located at the ends of lines of code. The main idea behind this rule is that in order to be really readable, trailing comments would have to be properly written and formatted (correct alignment, no interference with the visual structure of the code, not too long to be visible) but most often, automatic code formatters would not handle this correctly: the code would end up less readable. Comments are far better placed on the previous empty line of code, where they will always be visible and properly formatted.

Noncompliant Code Example

```
a = b + c;    // This is a trailing comment that could be very
```

Compliant Solution

```
// This very long comment is better placed before the line of
a = b + c;
```

Exceptions

The rule will not raise an issue if the trailing comment is preceded by an opening brace, closing brace (optionally followed by a semicolon) or a preprocessor directive.

Available In:

  Developer Edition

<div>Freed memory should not be used</div> <div> Bug</div>
<div>Memory locations should not be released more than once</div> <div> Bug</div>
<div>Memory access should be explicitly bounded to prevent buffer overflows</div> <div> Bug</div>
<div>Printf-style format strings should not lead to unexpected behavior at runtime</div> <div> Bug</div>
<div>Recursion should not be infinite</div> <div> Bug</div>
<div>Resources should be closed</div> <div> Bug</div>
<div>Hard-coded credentials are security-sensitive</div> <div> Security Hotspot</div>
<div>"goto" should jump to labels declared later in the same function</div> <div> Code Smell</div>
<div>Only standard forms of the "defined" directive should be used</div> <div> Code Smell</div>
<div>Switch labels should not be nested inside non-switch blocks</div> <div> Code Smell</div>