Objective C static code analysis: Control flow statements "if", "for", "while", "switch" and "try" should not be nested too deeply

2 minutes

Nested if, for, do, while, switch and try statements is a key ingredient for making what's known as "Spaghetti code".

Such code is hard to read, refactor and therefore maintain.

Noncompliant Code Example

With the default threshold of 3:

```
if (condition1) {
                            // Compliant; depth = 1
  /* ... */
  if (condition2) {
                            // Compliant; depth = 2
   /* ... */
   for(int i = 0; i < 10; i++) { // Compliant; depth = 3, not exceeding
the limit
     /* ... */
     if (condition4) {
                            // Noncompliant; depth = 4
                            // Depth = 5, exceeding the limit, but
      if (condition5) {
issues are only reported on depth = 4
       /* ... */
      }
      return;
     }
   }
 }
```

Exceptions

Each use of a macro containing control flow statements is counted as one nesting level, even if the macro contains more than one control flow statement.

#define FOREACH(V,ARR) if(ARR!=nullptr) for(int V=0;

Available In: