Objective C static code analysis: Appropriate size arguments should be passed to "strncat" and "strlcpy"

1 minute

Size argument of strncat, strlcat and strlcpy should define the size of the destination to prevent buffer overflow.

Moreover, strncat always adds a terminating null character at the end of the appended characters so the size argument should be smaller than the size of the destination to let enough space for it.

Noncompliant Code Example

```
void f(char* src) {
  char dest[10];
  strlcpy(dest, src, sizeof(src)); // Noncompliant; size argument is
the size of the source instead of the size of the destination
  strncat(dest, src, sizeof(src)); // Noncompliant; size of the source
instead of the size of the destination
  strncat(dest, src, sizeof(dest)); // Noncompliant; size argument is
too large
}
```

Compliant Solution

```
void f(char* src) {
  char dest[10];
  strncat(dest, src, sizeof(dest) - 1); // Compliant
}
```

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