Swift static code analysis: Infix operators that end with "=" should update their left operands

1 minute

The conventional expectation of operators that end with =, such as +=, −=, ∗=, and so on, is that the result of the operation will be assigned to the operand on the left-hand side of the operator.

Define any other behavior and you almost guarantee that the users of your code will misunderstand and therefore misuse your operator.

Noncompliant Code Example

```
func **= (p1:Int, p2:Int) -> Int {   // Noncompliant. Change operator name or update value of first parameter
    return p1 ** p2
}

func => (p1:Int, p2:Int) -> Int {  // Compliant; doesn't end with '='
    return p1 ** p1 ** p2
}
```

Compliant Solution

```
func **= (inout p1:Int, p2:Int) {
    p1 = p1 ** p2
}

func => (p1:Int, p2:Int) -> Int {
    return p1 ** p1 ** p2
}
```