

C static code analysis: Parameters should be passed in the correct order

1 minute

When the names of parameters in a method call match the names of the method arguments, it contributes to clearer, more readable code. However, when the names match, but are passed in a different order than the method arguments, it indicates a mistake in the parameter order which will likely lead to unexpected results.

Noncompliant Code Example

```
int divide(int divisor, int dividend) {  
    return divisor / dividend;  
}  
  
void doTheThing() {  
    int divisor = 15;  
    int dividend = 5;  
  
    int result = divide(dividend, divisor); // Noncompliant; operation  
    succeeds, but result is unexpected  
    //...  
}
```

Compliant Solution

```
int divide(int divisor, int dividend) {  
    return divisor / dividend;  
}  
  
void doTheThing() {  
    int divisor = 15;  
    int dividend = 5;
```

```
int result = divide(divisor, dividend);  
//...  
}
```