Test

Rasmus Guldborg Pedersen

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Overview

1 Q 2.7: Basis path / Cyclomatic complexity testing

Cyclomatic Complexity

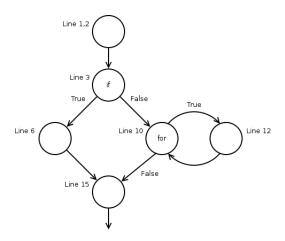
Measures the complexity of a piece of code.

$$CC = E - N + 2P$$

Example Code

```
int Factorial(int n) {
        int f = 1;
2
        if (n < 0)
3
             // -1 indicates an error
5
            f = -1;
6
        else
             for (int i = 1; i < n; i++)
10
11
                 f *= i;
12
13
14
        return f;
15
16
```

Example Graph



Test Cases

Cyclomatic Complexity 7 - 6 + 2 = 3.

Test case 1: n = 0

Test case 2: n = 2

The End

"Testing shows the presence, not the absence of bugs."

— Edsger W. Dijkstra