Ein Bild, das Text enthält.

Automatisch generierte Beschreibung

1

Einfache Bedingungen

A=x<0; B=x>-12; C=x<10; D=y=T; E=x==77; F=y=F

|  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- |
|  | x | y | A | B | C | D | E | F |
| TF1 | -20 | True | T | F | T | T | F | F |
| TF2 | 77 | False | F | T | F | F | T | T |

2

|  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- |
|  | x | y | A | B | C | D | E | F |
| TF1 | -20 | False | T | F | T | F | F | T |
| TF2 | 77 | True | F | T | F | T | T | F |

hätte man die Einfachbedingungsüberdeckungstabelle so gestaltet würde man das IF nie ausführen, obwohl man so gesehen nichts falsch gemacht hätte. Bei der Zweigüberdeckung könnte dieser Fehler so nicht auftauchen.

3

|  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
|  | x | y | A | B | C | D | E | F | A && B | C && D | E && F |
| TF1 | -5 | False | T | T | T | F | F | T | T |  |  |
| TF2 | 1 | True | F | T | T | T | F | F | F | T |  |
| TF3 | 77 | False | F | T | F | F | T | T | F | F | T |
| TF4 | -5 | True | T | T | T | T | F | F | T | T | F |
| TF5 |  |  |  |  |  |  |  |  | F | T | T |
| TF6 |  |  |  |  |  |  |  |  | T | T | T |
| TF7 | 11 | False | F | T | F | F | F | T | F | F | F |
| TF8 |  |  |  |  |  |  |  |  | T | F | T |

Grundsätzlich benötigen wir nur die ersten 3 Testfälle, da wird damit jeweils zumindest bei einer Bedingung ein True erzielen.

Wir haben allerdings auch noch die Möglichkeit das „A&&B“ und „C&&D“ gleichzeitig True sind.

4

|  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
|  | x | y | A | B | C | D | E | F | A && B | C && D | E && F | IF |
| TF1 | -5 | False | T | T | T | F | F | T | T |  |  | T |
| TF2 | 1 | True | F | T | T | T | F | F | F | T |  | T |
| TF3 | 77 | False | F | T | F | F | T | T | F | F | T | T |
| TF4 | -5 | True | T | T | T | T | F | F | T | T | F | T |
| TF5 |  |  |  |  |  |  |  |  | F | T | T | T |
| TF6 |  |  |  |  |  |  |  |  | T | T | T | T |
| TF7 | 11 | False | F | T | F | F | F | T | F | F | F | F |
| TF8 |  |  |  |  |  |  |  |  | T | F | T | T |

TF für A&&B

|  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
|  | x | y | A | B | C | D | E | F | A && B | C && D | E && F | IF |
| TF1 | -5 | False | T | T | T | F | F | T | T |  |  | T |
| TF7 | 11 | False | F | T | F | F | F | T | F | F | F | F |

TF für C&&D

|  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
|  | x | y | A | B | C | D | E | F | A && B | C && D | E && F | IF |
| TF2 | 1 | True | F | T | T | T | F | F | F | T |  | T |
| TF1 | -5 | False | T | T | T | F | F | T | T | F | F | T |

TF für E&&F

|  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
|  | x | y | A | B | C | D | E | F | A && B | C && D | E && F | IF |
| TF3 | 77 | False | F | T | F | F | T | T | F | F | T | T |
| TF1 | -5 | False | T | T | T | F | F | T | T | F | F | T |