Sommario

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# Black Box

## Compute Calories

CRITERIA

weightProteins

weightFats

weightCarbohidrates

PREDICATES

weightProteins sign <0,>0

weightFats sign <0,>0

weightCarbohidrates sign <0,>0

BOUNDARIES

weightProteins

[minint,-1] [0,maxint]

weightFats

[minint,-1] [0,maxint]

weightCarbohidrates

[minint,-1] [0,maxint]

EQUIVALENCE CLASSES AND TESTING

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| weightProteins | weightFats | weightCarbohidrates | Valid | Test Cases |
| [minint,-1] | \* | \* | I | T1(-8,…,…)->Error  TB(-1,..,…)->Error |
| \* | [minint,-1] | \* | I | T2(…,-8,…)->Error  TB(…,-1,…)->Error |
| \* | \* | [minint,-1] | I | T3(…,…,-8)->Error  TB(…,..,-1)->Error |
| [0,maxint] | [0,maxint] | [0,maxint] | V | T4(0,0,0)->0  TB for the others |
| [0,maxint] | [0,maxint] | [0,maxint] | V | T5(4,2,5)->54 |
| [0,maxint] | [0,maxint] | [0,maxint] | V | T6(0,2,5)->38 |
| [0,maxint] | [0,maxint] | [0,maxint] | V | T7(4,0,5)->36 |
| [0,maxint] | [0,maxint] | [0,maxint] | V | T8(4,2,0)->34 |

# White Box

## While Loop

|  |  |  |  |
| --- | --- | --- | --- |
| Coverage | N of Test to obtain 100% coverage | Coverage Obtained with test case defined | Test Cases |
| Node | 2 | 100% | T1-T2 |
| Edge Coverage | 2 | 100% | T1-T2 |
| Multiple Condition Coverage | 4 | 100% | TT T1  FF T3  TF T2  FT T4 |
| Loop Coverage | 3 | 100% | T1 enter one  T2 try no enter  T5 enter many |
| Path Coverage | 2\*1\*2=4, so it is feasible | 100% | T1-T2-T4 |

T1(-1,-1,-6) T2(1,1,1) T3(2,1,3) T4(2,1,0) T5(-5,-5,-5)