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Calca.rkt User’s Manual

**Description:**

The Calca program is a basic Boolean calculator that supports Or, And, Not, and parentheses. When the program is given a correctly formatted expression it will return not only the final output but also the result of every instance of parentheses and operators. Meaning the output will consist of every value calculated on the way to the final expression in the form of a list, this list will also end with the total value of the expression.

**Input format:**

Calca expects a relatively rigid input format, all terms must be separated by an operator to be separated correctly. The operators it expects are and(&), or(V), and not(~). Not given specific criteria, it is expected to be applied to only one operator at a time and be enclosed in its own set or parentheses. Parentheses are interpreted as single terms and should be separated by operators as normal terms are.

**Input Examples:**

(evaluate-expression '(#t & #t))

(evaluate-expression '(#f V #t & #t & #f))

(evaluate-expression '((~ #t) V (~ #f) & #t))

*Will Return:*

'(#t)

'(#t #f #f)

'(#f #t #t #t)