

A simple Calculator in LISP#

General Information

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Language: LISP

Compiler/Interpreter: InterLisp/65

```
(CALC PUSH POP BINARY UNARY - E N L S D P)
(DEFINEQ CALC '(LAMBDA NIL (PROG (X Y OP STACK) LOOP (POKE 128 0) (TERPRI) (PRINT STACK)
)
(DEFINEQ PUSH '(LAMBDA (ITEM) (SETQ STACK (CONS ITEM STACK)))
)
(DEFINEQ POP '(LAMBDA NIL (PROG (X) (SETQ X (CAR STACK)) (SETQ STACK (CDR STACK)) X))
)
(SETQ BINARY '(+ * - / P)
)
(SETQ UNARY '(E L N D S)
)
(DEFINEQ - '(LAMBDA (X Y) (SUB X Y))
)
(DEFINEQ E '(LAMBDA (X) (EXP X))
)
(DEFINEQ N '(LAMBDA (X) (SUB 0 X))
)
(DEFINEQ L '(LAMBDA (X) (LOG X))
)
(DEFINEQ S '(LAMBDA (X) (EXP (/ (LOG X) 2)))
)
(DEFINEQ D '(LAMBDA (X) (PROGN (PUSH X) X))
)
(DEFINEQ P '(LAMBDA (X Y) (EXP (* Y (LOG X))))
)
NIL
```