

```
(DEFPROP $$  
(LAMBDA $$3  
  ((LAMBDA (A $$ $U $L)  
    (PROG NIL  
      A  
      (COND  
        ((SETQ $$3
```



```

((LAMBDA ($K $D)
  (COND
    ((AND ($S3 A)
      (EQ (SETQ $S (SUB1 $S)) 0))
      (LIST $K $D))))
  $K
  $D))
(SETQ $K (CAR $S3))
(SETQ $D (CADR $S3))
((OR ($D)
  ($R)
  (AND (CDR $D) ($U) ($R)))
  (GO A))
((SETQ $K $U) (SETQ $D $L)
  (TERPRI)
  (PRINC (QUOTE SEARCH/ FAILS))
  (ERR))))
(ARG 1)
(COND ((EQ $S3 2) (ARG 2))
  (1))
$K
$D))
EXPR)

```

```

(DEFPROP $S3
  (LAMBDA (A)
    (COND ((EQUAL A (CDR $K)) ($U) ($R))
      ((NULL (CDR $K))
        (COND ((EQ A (QUOTE /)) ($U) ($R)))
          ((EQ A (QUOTE $)) ($U) ($R)))
        ((EQUAL A (CADR $K)) ($R))
          ((EQ A (QUOTE $)) (PATOM (CADR $K)))
            ((EQ A (QUOTE $S)) ($D))
              ((EQ A (QUOTE /)) ($D))
                ((PATOM A) NIL)
                  ((AND A ($S3 (CAR A)) ($S3 (CDR A))))))
      (1))
    (1))
  $K
  $D))
EXPR)

```

```

(DEFPROP $SYM
  (LAMBDA (A)
    (PROG (BASE)
      (SETQ BASE 10)
      (RETURN
        (MAKNAM
          (APPEND (EXPLODE A)
            (EXPLODE (SETQ $SYM (ADD1 $SYM)))))))
    (1))
  $SYM
  $D))
EXPR)

```

```

(DEFPROP $B
  (LAMBDA $B
    (PROG ($NB)
      (SETQ $NB
        (COND
          ((GET (QUOTE $B) (CAR $Y))
            (INTERN ($SYM (CAR $Y))))
          ((CAR $Y))))
        (SETQ $B

```



```

(COND ((GREATERP $B 0) (ARG 1))
      (0)))
(SETQ $B
  (COND ((NUMBERP $B) ($NB $B))
        ($B)
        (($NB 0))))
(INCONC (GET (QUOTE $B) (QUOTE BREAK))
  (LIST $NB))
(PUTPROP (QUOTE $B)
  (LIST (QUOTE BREAK)
    $Y
    (COND ((CDAR $K) (CADAR $K)))
    $K
    $D)
  $NB)
($KI
  (LIST (QUOTE $BREAK)
    $NB
    $B
    (COND ((CDAR $K) (CADAR $K))))))
EXPR)

```

```

(DEFPROP $NB
  (LAMBDA (A)
    (PROG ($NB)
      (SETQ $NB (INTERN ($SYM (QUOTE BK)))))
      (SET $NB 1)
      (RETURN
        (COND ((ZEROP A) $NB)
              ((LIST (QUOTE GREATERP)
                (LIST (QUOTE SETQ)
                  $NB
                  (LIST (QUOTE ADD1) $NB))
                A))))))
  EXPR)

```

```

(DEFPROP $BREAK
  (LAMBDA (KNZUG)
    (PROG (KSZRT $BREAK)
      (COND
        ((SETQ KSZRT (EVAL (CADR KNZUG)))
          (TERPRI)
          (PRINC (QUOTE BREAK/ ))
          (PRINC (CAP KNZUG))
          ($BL)))
        (SETQ $BREAK (EVAL (CADDR KNZUG)))
        (COND
          (KSZRT (TERPRI)
            (PRINC (QUOTE EXIT/ VALUE/ ))
            (PRINT $BREAK)
            (PRINT (QUOTE BREAK))
            ($BL)))
          (RETURN $BREAK)))
      FEXPR)

```

```

(DEFPROP $BL
  (LAMBDA NIL

```