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(DEFPROP LAP
  (LAMBDA (SL)
    (PROG (LOC CONLIST GEN RENOT L)
      (SETO GEN (GENSYM))
      (SETO CONLIST (LIST NIL))
      (SETO LOC ')))
    A
    (COND ((NULL (SETQ L (READ))) (GO END))
          ((ATOM L) (DEFSYM L (PLUS BPORG LOC)) (GO A)))
    (GWD L)
    (GO A))
  END (DEFSYM GEN (PLUS BPORG LOC)))
  (COND ENI
    ((NULL (SETO CONLIST (CDR CONLIST)))
     (EVAL (CONS (QUOTE REMOBI) REMOBI)))
    (PUTPROP (CAR SL)
      (COND ((EQ APORG (PLUS BPORG 0)) (SUB1 BPORG))
            (T (CDDR BPORG)) (CADR SL)))
     (RETURN (SETO BPORG (PLUS BPORG LOC)))))
    (GWD (CAR CONLIST))
    (GO EN1)))
  FEXPR)

(DEFPROP GWD (LAMBDA (X) (PROG (FLD TEM)
  A
  (COND ((NULL X) (RDEPOSIT LOC (APPLY (QUOTE PLUS)
    FLD)) (RETURN (SETO LOC (ADD1 LOC))))))
    (SETO TEM (LAPEVAL (CAR X))))
    (SETO FLD (CONS (COND ((NULL FLD) TEM)
      ((NULL (CDR FLD)) (LSH TEM 27))
      ((NULL (CDDR FLD)) (ANDLE 1 TEM 777777)))
      (SETO X (CDR X))
      (GO A)) FLD)))
  (DEFFPROP LAPEVAL
    (LAMBDA (X)
      (COND ((NUMBERP X) X)
            ((ATOM X)
              (COND ((GET X (QUOTE VALUE)) (MAKNUM X (QUOTE FIXNUM))
                    (1 (EQUAL X 1)))
                ((MEMBER (CAR X) (QUOTE (IE QUOTE)))
                  (MAKNUM (COND ((OR (NOT (ATOM (SETO X (CADR X)))) (AND (NUMBERP X)
                    (NOT (E0 (PLUS X 0) X)))) (PRNS (Y)
                      (SETO Y QLISI)
                      A
                      (COND ((NULL Y)
                        (RETURN (CAR Y))
                        (SETU WLIST
                          (EQUAL X (CAR Y))
                          (CONS X QLISI)))))))
                    (SETO Y (CAR Y)))
                  (RETURN (CAR Y)))) (GU A)))
            (QUOTE FIXNUM))))
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n60
n61 (EQ (CAR X) (QUOTE SPECIAL))
n62 (COND
n63 ((NULL (GET (CADR X) (QUOTE VALUE)))
n64 (PUTPROP (CADR X) (LIST NIL) (QUOTE VALUE)))
n65 (MAKEUNIQ (GET (CADR X) (QUOTE VALUE)) (QUOTE FIXNUM)))
n66 (EQ (CAR X) (QUOTE C))
n67 (PROG (IN CPTR)
n68 (COND ((AND (EQ (CADR X) 0) (EQ (CADDR X) 0))
n69 (COND ((AND (EQUAL (SETO N (CADDDR X)) (QUOTE NIL))
n70 (NULL (CDNDUR X))) (RETURN 70))))
n71 ((AND (NUMBERP N) (EG N (CADDDR (CDR X))))
n72 (LESSP N 6) (NOT (MINUSP N))) (RETURN (PLUS N 70))))
n73 (IVAL GEN)
n74 (STO N 0)
n75 (SETO CPTP CON1 IST1)
n76 (COND
n77 ((NULL (CDDR CPTP)) (REPLACE CPTP (LIST (CDR X)))))
n78 (COND ((EQUAL (CDR X) (CADR CPTP)) (RETURN N)))
n79 (SETD N (ADD1 N))
n80 (SETD CPTP (CUP CPTP))
n81 (GO A))
n82 (T (PLUS (LAPEVAL (CAR X)) (LAPEVAL (CDR X)))))
n83 EXPR)
n84 (DEFPROP DEFSYM
n85 (LAMBDA (SYM VAL))
n86 (PROGS (Z)
n87 (COND ((SETD Z (GET SYM (QUOTE UNDEF))) (GO PATCH))
n88 (COND ((NEW (LENGTH (CDR SYM))2) (SETD REMOB (CONS SYM REMOB)))
n89 A (COND ((NEW (LENGTH (CDR SYM))2) (SETD REMOB (CONS SYM REMOB)))
n90 (RETURN (PUTPROP SYM VAL (QUOTE SYM)))
n91 PATCH(COND ((NULL Z) (REPLACE SYM (CDRUNK SYM)) (GO A)))
n92 (REDEPOSIT (CAR Z))
n93 (PLUS (FXAMINE (PLUS BFORG (CAR Z)) VAL))
n94 (SETD Z (CDR Z))
n95 (GO PATCH))
n96 EXPR)
n97
n98 (DEFPROP GVAL
n99 (LAMBDA (SYM))
n100 (COND ((GFT SYM (QUOTE SYM))))
n101 (T (PUTPROP SYM
n102 (CONS LOC (GET SYM (QUOTE UNDEF)))
n103 (QUOTE UNDEF)))
n104 (QUOTE UNDEF)))
n105 EXPR)
n106
n107 (DEFPROP OPS
n108 (LAMBDA (L)
n109 (PROG (REMLOB)
n110 A (COND ((NULL L) (RETURN T)))
n111 (DEFSYM (CAR L) (CADR L))
n112 (SETD L (CDNR L))
n113 (GO A))
n114 EXPR)
n115 (OPS MOVE1 2010000000 MOVE1 2010000000 MOVE1 2020000000
n116 JRS1 2540000000 CALL
n117 7400000000 JCALL 7500000000
n118 PUSHJ 2600000000 POPJ 2630000000 PUSH 2610000000
n119


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n01          (LAP LAF FSIR)
n02          (JSR SPECARNG)
n03          (0 U (SPECIAL LOC))
n04          (0 0 (SPECIAL CONLST))
n05          (0 0 (SPECIAL GEN))
n06          (0 0 (SPECIAL OFMP))
n07          (PUSH P 1)
n08          (CALL 0 (E GENSYM))
n09          (MOVE# 1 (SPECIAL GEN))
n10          (MOVE# 1 (QUOTE NIL))
n11          (MOVE# 1 (E NCNS))
n12          (MOVE# 1 (SPECIAL CONLST))
n13          (MOVE# 1 (QUOTE 0))
n14          (MOVE# 2 (SPECIAL LOC))
n15          (MOVE# 2 (SPECIAL LOC))
n16          (PUSH P (C n 0 (QUOTE NIL)))
n17          (CALL 0 (E READ))
n18          (MOVE# 1 0 P)
n19          (JUMPE 1 GO330)
n20          (CALL 1 (E ATOM))
n21          (JUMPE 1 GO340)
n22          (MOVE# 2 (SPECIAL LOC))
n23          (MOVE# 1 (SPECIAL HNRG))
n24          (MOVE# 2 (E *PLUS))
n25          (CALL 2 (E *PLUS))
n26          (MOVE# 2 1)
n27          (MOVE# 1 0 P)
n28          (CALL 2 (E DEFSYM))
n29          (Jrst 0 GO330)
n30          (MOVE# 1 n P)
n31          (CALL 1 (E GND))
n32          (Jrst 0 GO330)
n33          (MOVE# 1 (SPECIAL LOC))
n34          (MOVE# 2 (SPECIAL LOC))
n35          (MOVE# 2 (SPECIAL GEN))
n36          (MOVE# 1 (SPECIAL HNRG))
n37          (PUSH P (SPECIAL GEN))
n38          (CALL 2 (E *PLUS))
n39          (MOVE# 2 1)
n40          (POP P 1)
n41          (CALL 2 (E DEFSYM))
n42          (GO332)
n43          (HRR# 1 (SPECIAL CONLST))
n44          (MOVE# 1 (SPECIAL GNLST))
n45          (JUMPN 1 GO351)
n46          (MOVE# 1 (SPECIAL REMOR))
n47          (CALL 17 (E REMOR))
n48          (HRR# 1 -1 P)
n49          (PUSH P 1)
n50          (MOVE# 1 (QUOTE 0))
n51          (MOVE# 1 (SPECIAL HNRG))
n52          (CALL 2 (E *PLUS))
n53          (CAME 1 (SPECIAL HNRG))
n54          (Jrst 0 GO356)
n55          (MOVE# 1 (SPECIAL HNRG))
n56          (CALL 1 (E SUM1))
n57          (MOVE# 2 1)
n58          (Jrst 0 GO355)
n59          (MOVE# 2 (SPECIAL HNRG))

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n61 (HRRJ * 2 2)
n62 (HRRJ * 2 2)
n63
n64 G0350
n65 G0355
n66 (HRRZ# 3 -2 P)
n67 (P0P P 1)
n68 (CALL 3 (E PUTPWP1))
n69 (MOVE ? (SPECIAL LOC1))
n70 (MOVE 1 (SPECIAL RPORG))
n71 (CALL 2 (E *PLUS))
n72 (MOVEW 1 (SPECIAL RPORG))
n73 (JRST 0 G0333)
n74 G0351
n75 (HLRZ# 1 (SPECIAL CONLIS1))
n76 (CALL 1 (E GW01))
n77 (JRST 0 G0332)
n78 G0333
n79 (SUB P (C 0 0 2 21))
n80 (JRST 0 SPECSTR)
n81 NIL

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    (LAP GWD $U42)
    (PUSH p 1)
    (PUSH p 0 0 (QUOTE NIL))
    (PUSH p 0 0 (QUOTE NIL))
    GO172
    (MOVE 1 -2 p)
    (JMPN 1 GO177)
    (PUSH p (SPECIAL LOC))
    (PUSH p (C 0 0 GO37A1))
    (PUSH p (C 0 0 (QUOTE PLUS)))
    (PUSH p ~3 p)
    (MOVN 6 2)
    (CALL 16 (E APPLY))
    GO378
    (MOVE 2 1)
    (POP p 1)
    (CALL 2 (E DEPOSIT))
    (MOVE 1 (SPECIAL LOC))
    (CALL 1 (E ADD))
    (MOVE 1 (SPECIAL LOC))
    (JRST 0 GO373)
    GO377
    (HLRZ# 1 -2 p)
    (CALL 1 (E LAPVAL))
    (MOVE 4 1 -1 p)
    (MOVE 1 0 p)
    (JMPN 1 GO397)
    (MOVE 1 -1 p)
    (JRST 0 GO386)
    GO387
    *
    (HRRZ# 2 1)
    (JUMPN 2 GO388)
    (MOVE 1 2 (QUOTE 27))
    (MOVE 1 -1 p)
    (CALL 2 (E LSH))
    (JRST 0 GO386)
    GO388
    HRRZ# 3 2)
    (JUMPN 3 GO391)
    (PUSH p (C 0 0 GO393))
    (PUSH p (C 0 0 (QUOTE 1)))
    (PUSH p -3 p)
    (PUSH p (C 0 0 (QUOTE 777777)))
    (MOVE 1 6 3)
    (CALL 16 (E QUOTE))
    GO393
    (JRST 0 GO396)
    GO391
    (MOVE 1 2 (QUOTE 22))
    (MOVE 1 -1 p)
    (CALL 2 (F LSH))
    GO396
    (HRRZ# 2 0 p)
    (CALL 2 (E CONS))
    (MOVE 1 3 p)
    (MOVE 1 -2 p)
    (MOVE 1 -2 p)
    (JRST 0 GO372)
    GO373

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(SIR > (C 0 0 3 3))
(PPPJ P)
NLL

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n01
n02 (LAP LAPFVAL $IHK)
n03 (PUSH P 1)
n04 (CALL 1 (E NUMBERP))
n05 (JUMPE 1 G0404)
n06 (MOVE 1 0 P)
n07 (JRST 0 G0403)
G0404
n08 (MOVE 1 0 P)
n09 (CALL 1 (E ATOM))
n10 (JUMPE 1 G0406)
n11 (MOVE 1 0 P)
n12 (MOVE 2 (QUOTE VALUE))
n13 (MOVE 3 0 P)
n14 (CALL 2 (E GET))
n15 (JUMPE 1 G0409)
n16 (MOVE 1 2 (QUOTE FIXNUM))
n17 (MOVE 1 0 P)
n18 (CALL 2 (E MAKENUM))
n19 (JRST 0 G0408)
G0409
n20 (MOVE 1 0 P)
n21 (CALL 1 (E GVAL))
n22 (G0412)
n23 (G0408)
n24 (JRST 0 G0403)
n25 (G0406)
n26 (MOVE 1 2 (QUOTE (E QUOTE)))
n27 (HLRZ# 1 0 P)
n28 (CALL 2 (E MEMBER))
n29 (JUMPE 1 G0416)
n30 (HLRZ# 1 0 P)
n31 (HLRZ# 1 1)
n32 (MOVE 1 0 P)
n33 (MOVE 1 (E ATOM))
n34 (CALL 1 (E ATOM))
n35 (JUMPE 1 G0421)
n36 (MOVE 1 0 P)
n37 (CALL 1 (E NUMBERP))
n38 (JUMPE 1 G0420)
n39 (MOVE 1 (QUOTE 0))
n40 (MOVE 1 0 P)
n41 (CALL 2 (E *PLUS))
n42 (CALL 1 0 P)
n43 (JRST 0 G0420)
n44 (G0421)
n45 (PUSH P (SPECIAL QLIST))
n46 (MOVE 1 C P)
n47 (MOVE 1 0 P)
n48 (JUMPN 1 G0431)
n49 (MOVE 2 (SPECIAL QLIST))
n50 (MOVE 1 -1 P)
n51 (CALL 2 (IF CONS))
n52 (MOVE 1 (SPECIAL QLIST))
n53 (HLRZ# 1 1)
n54 (JRST 0 G0427)
G0431
n55 (HLRZ# 2 1)
n56 (MOVE 1 -1 P)
n57 (CALL 2 (E EQUAL))
n58 (JUMPE 1 G0435)
n59 (HLRZ# 1 0 P)

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061 (Jrst 0 g0427)
062 (0435
063 (Hrz* 1 0 p)
064 (Move 1 0 p)
065 (Jrst 0 g0401)
066 g0427
067 (Sub P (C n n 1 1))
068 (Jrst 0 g0419)
069 g0426
070 (Move 1 n P)
071 g0444
072 (Move 1 2 (QUOTE FLYNIM))
073 (Move 1 2 (E MAKNUM))
074 (Call 2 (E MAKNUM))
075 (Jrst 0 g0403)
076 g0416
077 (Hrz* 1 0 P)
078 (Cale 1 (QUOTE SPECIAL))
079 (Jrst 0 g0441)
080 (Move 1 2 (QUOTE VALUE))
081 (Hrz* 1 0 P)
082 (Hrz* 1 1)
083 (Call 2 (E GET))
084 (Jmpn 1 g0451)
085 (Call 1 (E NCONS))
086 (Move 1 3 (QUOTE VALUE))
087 (Move 2 1)
088 (Hrz* 1 0 P)
089 (Hrz* 1 1)
090 (Call 3 (E DJTOPUP))
091 g0451
092 (Move 1 2 (QUOTE VALUE))
093 (Hrz* 1 n P)
094 (Hrz* 1 1)
095 (Call 2 (E GFT))
096 (Move 1 2 (QUOTE FLYNIM))
097 (Call 2 (E MAKNUM))
098 (Jrst 0 g0403)
099 g0448
100 (Cale 1 (QUOTE C))
101 (Jrst 0 g0461)
102 (Push P (C n 0 (QUOTE NIL)))
103 (Push P (C n 0 (QUOTE NIL)))
104 (Hrz* 1 -2 P)
105 (Hrz* 1 1)
106 (Cale 1 (QUOTE 0))
107 (Jrst 0 g0467)
108 (Hrz* 1 -2 P)
109 (Call 1 (E CADR))
110 (Cale 1 (QUOTE 0))
111 (Jrst 0 g0467)
112 (Hrz* 1 -2 P)
113 (Call 1 (E CADR))
114 (Move 1 2 (QUOTE (QUOTE NIL)))
115 (Move 1 n P)
116 (Call 2 (E Fullal))
117 (Jmp 1 g0472)
118 (Hrz* 2 -2 P)
119 (Hrz* 2 2)
120 (Hrz* 2 2)

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121 (HHRZ# 2 2)
122 (JUMPN 2 (G0472))
123 (MOVEI 1 (D0101E 200))
124 (JRST 0 G0463)
125 (G0472)
126 (MOVEI 1 0 P)
127 (CALL 1 (E NUMBERP))
128 (JUMPE 1 G047A)
129 (HHRZ# 1 -2 P)
130 (CALL 1 (E GCDPUP))
131 (GANE 1 0 P)
132 (JRST 0 G047A)
133 (MOVEI 2 (QINTE 6))
134 (MOVE 1 0 P)
135 (CALL 2 (E *LESS))
136 (JUMPE 1 G047A)
137 (MOVE 1 0 P)
138 (CALL 1 (E MINUSP))
139 (JUMPN 1 G047B)
140 (MOVEI 2 (QJNTR 700))
141 (MOVE 1 0 P)
142 (CALL 2 (E *PLUS))
143 (JRST 0 G0463)
144 G0478
145
146 (MOVE 1 (SPECIAL GFN))
147 (CALL 1 (E QVAL))
148 (MOVEI 2 (QJNTE 0))
149 (MOVE 3 (SPECIAL CONS))
150 (MOVEH 3 -1 P)
151 (MOVEH 2 0 P)
152 G0402
153 (HHRZ# 1 -1 P)
154 (JUMPE 1 G0491)
155 (HHRZ# 1 -2 P)
156 (CALL 1 (E NCONS))
157 (HHRM# 1 -1 P)
158 G0491
159 (HHRZ# 2 -1 P)
160 (HHRZ# 2 2)
161 (HHRZ# 1 -2 P)
162 (CALL 2 (E ENUAL))
163 (JUMPE 1 G0497)
164 (MOVE 1 0 P)
165 (JRST 0 G0463)
166 G0497
167 (MOVE 1 0 P)
168 (CALL 1 (E 4DD1))
169 (MOVEI 1 0 P)
170 (HHRZ# 1 -1 P)
171 (MOVEH 1 -1 P)
172 (JRST 0 G0492)
173 G0463
174 (SUY 0 (C 0 0 2 2))
175 (JRST 0 G0463)
176 G0491
177 (HHRZ# 1 0 P)
178 (CALL 1 (F LAPFVAL))
179 (PUSH 1)
180 (HHRZ# 1 -1 P)

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181 (CALL 1 (E LAREVAL))
182 (P0(P P 2))
183 (CALL 2 (E *PUSH))
184 60502
185 6403
186 (SUB P (C 0 0 1 1))
187 (PUPJ P)
188 NIL
189

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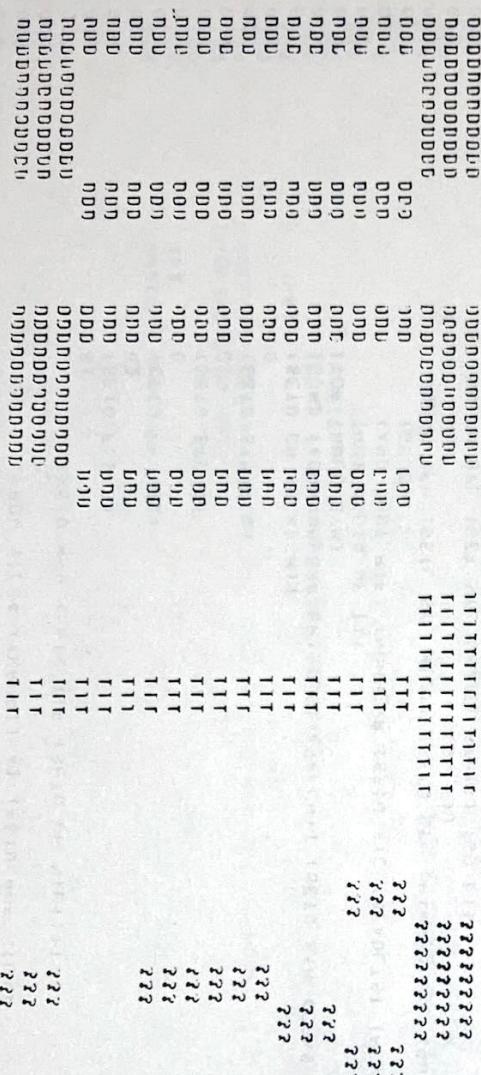
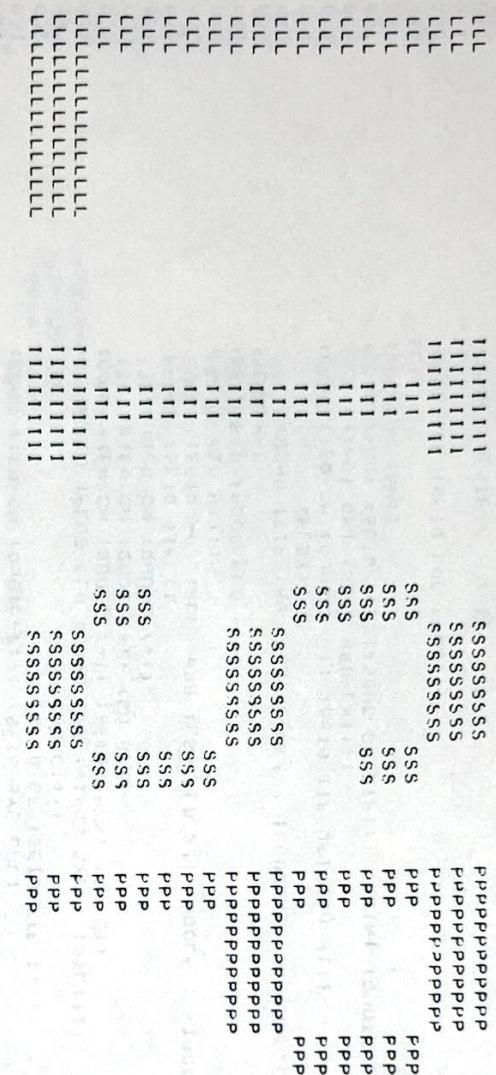
P. A. (2)

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003 (LAQ GVAL SURR)
004 (PUSH P 1)
005 (CALL 2 (IE GF(1)))
006 (IJUMPN 1 G0545)
007 (MOVEI 2 (QUOTE UNDEF))
008 (IMOVE 1 N_P)
009 (CALL 2 (IE GET1))
010 (IMOVE 2 (SPECIFIC LOC))
011 (CALL 2 (IE XCONS))
012 (MOVEI 3 (QUOTE UNDEF))
013 (IMOVE 2 1)
014 (IMOVE 1 0_P)
015 (CALL 3 (IE PUTPROP))
016 (MOVEI 1 (QUOTE D))
017 G0547
018
019 (SJB P (C 0 0 1 1))
020 (POPJ P)
021 NIL
022

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001 (REMPROP (QUOTE LAP) (QUOTE #T XPR))
002 (NAPCAR (FUNCTION (LAMBDA (X) (REMPROP X (QUOTE EXPR)))) (QUOTE
003 (QUOTE LAPEVAL DEFSYM GVAL)))




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060 (SETO WKU LOC)
061 (TERPRI)
062 (PAN LOC)
063 (PRINC (QUOTE //))
064 (GO S1)
065 VAR
066 (DEPRA)
067 (SETQ LOC (SUB1 LOC))
068 (GO L11)
069 TAB
070 (DEPRA)
071 (SETQ LOC (BQUOTE 1 777777 WRD))
072 (GO L11)
073 EXC
074 (DEPRA)
075 (SETQ OC (LSH WRD -22))
076 (GO L11)
077 EOSGN
078 (PRINI (SETQ LWT WRD))
079 (GO RET)
080 CARR
081 (DEPRA)
082 (SETQ LWT WRD)
083 (GO A1)
084
085 (DEFPROP SYMP
086 (LAMBDA (X)
087 (PROG (Y Q)
088 (SETQ X (BQUOTE 1 777777 X1))
089 (MAPC
090 (FUNCTION
091 (LAMBDA (Z)
092 (MAPC
093 (FUNCTION (LAMBDA (ZZ)
094 (COND ((AND (SETQ Q
095 (GETL ZZ (QUOTE (SUBR FSUBR)))
096 (EQUAL (CADR Q) (QUOTE FIXNUM))
097 Y)
098 (SETQ Y ZZ))))))
099 Z)))
100 OHLIST)
101 (COND (Y (RETURN (PRIM Y))))))
102 EXPR)
103 (DEFPROP DEPRA (LAMBDA NIL (COND ((AND ROF QF) (DEPOSIT LLNC WRD)))) EXPR)
104 (FILE LISP DDT)
105
106
107 %E$ UNROUND VARIABLE = EVAL
108

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