

LABEL 00000000PNTR 00174095?EXECUTE BUR/TEST*

BUR /TEST

Data Documents/Inc.

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LABEL 00000000LINE 00175095?COMPILE X098R0USH/CHECKAL ALGOL

ALGOL /X098RDU

Data Documents/Inc.

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X098ROU/CHECKAL
 =====

THE CHECKAL PROGRAM IS MADE UP IN MAIN OF PROCEDURE DECLARATIONS	10000000	T	0000
WITH APPROPRIATE CALLS ON THEM. EACH PROCEDURE CONCERNS ITSELF WITH	10000000	T	0000
CHECKING OUT A GIVEN ALGOL 60 CONSTRUCT.	10000000	T	0000
THE WORK AREAS OF THE PROGRAM ARE TWO SINGLE DIMENSION ARRAYS	10000000	T	0000
CALLED TEMP AND ANS. THE ELEMENTS OF THE ARRAY TEMP ARE FILLED WITH	10000000	T	0000
VALUES GENERATED BY THE ALGOL COMPILER AND THE MACHINE, FOR VARIOUS	10000000	T	0000
SYNTACTICAL CONSTRUCTS IN ALGOL. THE ARRAY ANS IS THEN FILLED WITH THE	10000000	T	0000
EXACT BIT CONFIGURATION OF THE ANSWERS EXPECTED.	10000000	T	0000
A CALL FOR A PROCEDURE TO BE EXECUTED ALSO CAUSES A CALL ON A	10000000	T	0000
ROUTINE CALLED VERIFY. THIS ROUTINE COMPARES CVN ELEMENTS OF ARRAY	10000000	T	0000
TEMP WITH THOSE OF ARRAY ANS. CVN IS A PARAMETER TO PROCEDURE VERIFY	10000000	T	0000
TELLING IT HOW MANY ELEMENTS OF THE ARRAYS TO CHECK	10000000	T	0000
IF CVN ELEMENTS OF THE ARRAY CORRESPOND IN EVERY BIT POSITION AN	10000000	T	0000
OUTPUT LINE STATING THIS PROCEDURE IS OK IS PRINTED ON THE LINE	10000000	T	0000
PRINTER. SHOULD ANY ELEMENT OR ELEMENTS OF THE ARRAYS NOT COMPARE THE	10000000	T	0000
OUTPUT WILL STATE THAT THE PROCEDURE IS BAD. WHETHER THE PROCEDURE IS	10000000	T	0000
OK OR BAD THE OUTPUT LINE ALWAYS CONTAINS A DESCRIPTION OF THE CONSTRUCT	10000000	T	0000
BEING CHECKED TOGETHER WITH THE PARAGRAPH AND SUB-PARAGRAPH NUMBER OF	10000000	T	0000
THIS CONSTRUCT IN THE EXTENDED ALGOL MANUAL.	10000000	T	0000
SHOULD THE PROCEDURE PRODUCE A RESULT WHICH IS BAD, THEN THE VALUES	10000000	T	0000
OF ALL ELEMENTS OF THE ARRAYS ANS AND TEMP ARE PRINTED OUT. IF THE	10000000	T	0000
ELEMENTS HAD COMPARED THAT FACT IS ACKNOWLEDGED BY CVN[X] IS TRUE.	10000000	T	0000
IF THE ELEMENT DOES NOT COMPARE THEN IN ADDITION TO PRINTING	10000000	T	0000
CVN[X] IS FALSE THE EXACT VALUES OF TEMP[X] AND ANS[X] ARE PRINTED	10000000	T	0000
GIVING VISUAL PROOF OF THE DISCREPENCY.	10000000	T	0000

THIS FALSE ANSWER CAN VERY EASILY BE TRACED BACK TO THE CONSTRUCT 10000000 T 0000

CREATING IT. SHOULD THE ERROR OCCUR IN SAY PROCEDURE P81, THE BODY OF
 THIS PROCEDURE P81 CAN FOUND BY SEARCHING DOWN THE SEQUENCE FIELD
 OF THE LISTING FOR CARDS OF SEQUENCE NO A081---. WITHIN THE BODY OF
 THE PROCEDURE, SINCE THE ELEMENTS OF ARRAY TEMP ARE SEQUENTIALLY
 FILLED, THE PARTICULAR CONSTRUCT CORRESPONDING TO CVNIXJ CAN BE LOCATED.
 AT THE END OF PROCEDURE P81 THE FILL STATEMENT ON ARRAY ANS SHOWS
 WHAT EXACTLY WAS EXPECTED FOR AN ANSWER. WITH THIS INFORMATION IT IS
 POSSIBLE TO RAPIDLY RUN DOWN A COMPILER FAILURE AND SOMETIMES A
 HARDWARE FAILURE.

BEGIN

START OF SEGMENT ***** 2

COMMENT THIS IS THE EXTENDED ALGOL MASTER PROGRAM ;
 INTEGER CVN, PNO;
 BOOLEAN NOK;
 ARRAY ANS [1:50];
 ARRAY TEMP [1:50];
 BOOLEAN ARRAY CV [1:50];
 ALPHA ARRAY PROCIDS [0:150,0:5];

FILE OUT FNOK 1 (1,15);

FILE IN FDUMMY (3,10);

PROCEDURE INITIALIZE;

BEGIN

FILL CV [*] WITH OCTO,OCTO,OCTO,OCTO,OCTO,OCTO,OCTO,OCTO,OCTO,

START OF SEGMENT ***** 3

OCTO,OCTO,OCTO,OCTO,OCTO,OCTO,OCTO,OCTO,OCTO,
 OCTO,OCTO,OCTO,OCTO,OCTO,OCTO,OCTO,OCTO,OCTO,
 OCTO,OCTO,OCTO,OCTO,OCTO,OCTO,OCTO,OCTO,OCTO,
 OCTO,OCTO,OCTO,OCTO,OCTO,OCTO,OCTO,OCTO,OCTO,
 OCTO,OCTO,OCTO,OCTO,OCTO;

FILL TEMP[*]WITH OCTO,OCTO,OCTO,OCTO,OCTO,OCTO,OCTO,OCTO,OCTO,

10000190 T 0016

START OF SEGMENT ***** 4

OCTO,OCTO,OCTO,OCTO,OCTO,OCTO,OCTO,OCTO,OCTO,

10000200 T 0018

OCTO,OCTO,OCTO,OCTO,OCTO,OCTO,OCTO,OCTO,OCTO,

10000210 T 0018

OCTO,OCTO,OCTO,OCTO,OCTO,OCTO,OCTO,OCTO,UCTO,

10000220 T 0018

OCTO,OCTO,OCTO,OCTO,OCTO,OCTO,OCTO,OCTO,UCTO,

10000230 T 0018

OCTO,OCTO,OCTO,OCTO,OCTO;

10000240 T 0018

4 T'S 50 LONG, NEXT SEG 2

FILL ANS [*]WITH OCTO,OCTO,OCTO,OCTO,OCTO,OCTO,OCTO,OCTO,OCTO,

10000250 T 0018

START OF SEGMENT ***** 5

OCTO,OCTO,OCTO,OCTO,OCTO,UCTO,OCTO,UCTO,OCTO,

10000260 T 0020

OCTO,OCTO,OCTO,OCTO,OCTO,OCTO,OCTO,OCTO,OCTO,

10000270 T 0020

OCTO,UCTO,OCTO,OCTO,OCTO,OCTO,OCTO,UCTO,OCTO,

10000280 T 0020

OCTO,UCTO,OCTO,OCTO,OCTO,OCTO,OCTO,OCTO,OCTO,

10000290 T 0020

OCTO,UCTO,OCTO,OCTO,OCTO;

10000300 T 0020

5 T'S 50 LONG, NEXT SEG 2

NOK + FALSE;

10000310 T 0020

CVN + 0;

10000320 T 0021

PNO + 0

10000330 T 0021

END;

10000340 T 0021

PROCEDURE REPORT;

10000350 T 0022

BEGIN

10000360 T 0022

LABEL BOTTOM;

10000370 T 0022

START OF SEGMENT ***** 6

INTEGER I;

10000380 T 0000

STREAM PROCEDURE HEAD (FIL,NOKV,PROCIDSA,PNO);

10000390 T 0000

VALUE NOKV,PNO;

10000400 T 0000

BEGIN

10000410 T 0000

LOCAL T1;

10000420 T 0000

LABEL L1;

10000430 T 0000

SI+FIL; DI+LOC T1; DS+1 WDS; DI+T1; COMMENT DI=1ST WD IN BUF

10000440 T 0000

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FER;

10000450 T 0001

15(DS + 8 LIT " "); DI+T1;

10000455 T 0001

10(DS+1 LIT " "); DS+19 LIT "TEST PROCEDURE NO. ";

10000460 T 0003

SI+LOC PNO; DS+3 DEC; DS+4 LIT " ";

10000470 T 0006

SI+PROCIDSA; DS+6 WDS;

10000480 T 0008

RELEASE (FIL); COMMENT WRITE (FNOK, FMHEAD, LHEAD);

10000490 T 0008

COMMENT THE FOLLOWING CARDS NO. 491, 492, 493, 494, 495, 496,

10000491 T 0009

***** ARE BEING INSERTED TO GET AROUND THE PRESENCE BIT BEING ON

10000492 T 0009

***** FOR BOTH RELEASE STATEMENTS IN PROC. HEAD. THIS CAUSES THE

10000493 T 0009

***** UNPRINTED BUT FILLED BUFFER TO BE OVERFILLED BEFORE IT IS

10000494 T 0009

***** RELEASED ;

10000495 T 0009

SI+FIL; DI+LOC T1; DS+1 WDS; DI+T1; COMMENT DI = 1ST WD OF BUFF ;

10000496 T 0009

SI+LOC NOKV; SI+SI+7;

10000500 T 0010

IF SC="1" THEN BEGIN DI+T1; DS+10 LIT " ";

10000510 T 0010

DS+5 LIT "IS OK";

10000520 T 0013

63(DS+ 1 LIT " "); 42(DS+1 LIT " ");

10000530 T 0014

RELEASE (FIL); COMMENT WRITE (FNOK, FMOK);

10000540 T 0016

GO TO L1 END;

10000550 T 0016

DI+T1; DS+10 LIT " ";

10000560 T 0017

DS+6 LIT "IS BAD"; 63(DS+1 LIT " ");

10000570 T 0018

41(DS+ 1 LIT " ");

10000580 T 0020

RELEASE (FIL); COMMENT WRITE (FNOK, FMBAD);

10000590 T 0021

L1:

10000600 T 0022

END;

10000610 T 0022

STREAM PROCEDURE CVTRUE (FIL, I);

10000620 T 0023

VALUE I;

10000630 T 0023

BEGIN

10000635 T 0023

LOCAL T1;

10000640 T 0024

SI+FIL; DI+LOC T1; DS+1 WDS; DI+T1; COMMENT DI=BUFFER TOP;

10000650 T 0024

20(DS+1 LIT " "); DS+4 LIT "CV ("; SI+LOC I; DS+2 DEC;

10000660 T 0025

DS+11 LIT "] = TRUE"; 63(DS+1 LIT " "); 20(DS+1 LIT " ");

10000670 T 0027

COMMENT WRITE (FNOK,FMCV,I,CV[I]);RELEASE (FIL)

10000680 T 0031

END;

10000690 T 0031

STREAM PROCEDURE CVFALSE (FIL,I);

10000700 T 0031

VALUE I;

10000710 T 0031

BEGIN

10000720 T 0031

LOCAL T1;

10000730 T 0032

SI+FIL; DI+LOC T1; DS+1 WDS; DI+T1;COMMENT DI=BUFFER TOP;

10000740 T 0032

20(DS+1 LIT " "); DS+4 LIT "CV ["; SI+LOC I; DS+2 DEC;

10000750 T 0033

DS +11LIT"] = FALSE"; 63(DS+LIT " ");20(DS+LIT " ");

10000760 T 0035

COMMENT WRITE (FNOK,FMCV,I,CV[I]);RELEASE (FIL)

10000770 T 0039

END;

10000780 T 0039

STREAM PROCEDURE INT (FIL,I,T1,TID,AI,AID);

10000790 T 0039

VALUE I,T1,TID,AI,AID;

10000800 T 0039

BEGIN

10000810 T 0039

LOCAL T1,T2;

10000820 T 0040

SI+FIL; DI+LOC T1; DS+1 WDS; DI+T1;

10000830 T 0040

35(DS+1 LIT " "); DS+6 LIT "TEMP ["; SI+LOC I;

10000840 T 0041

DS+2 DEC; DS+6 LIT "] = "; SI+LOC TID; T1+DI;

10000850 T 0043

DS+1 LIT " ";

10000860 T 0045

DS+6 DEC; COMMENT 1ST 6 DIGITS BUILT;DI+DI-1;DS+2 RESET;

10000870 T 0045

SI+LOC T1; DS+7 DEC;DI+DI-1;T2+DI;DI+T2;SI+T2;IF SB THEN

10000880 T 0046

BEGIN DI+T1;DS+1 LIT "-";DI+T2 END; DS+2 RESET;

10000890 T 0048

57(DS+1 LIT " ");

10000900 T 0050

RELEASE (FIL);COMMENT WRITE (FNOK,FMTEMP,I,TEMP[I]),

10000910 T 0051

SI+FIL; DI+LOC T1; DS+1 WDS; DI+T1;

10000920 T 0051

35(DS+1 LIT " "); DS+6 LIT "ANS ["; SI+LOC I;

10000930 T 0052

DS+2 DEC;DS+6 LIT "] = "; SI+LOC AID; T1+DI;

10000940 T 0054

DS+1 LIT " ";

10000950 T 0056

DS+6 DEC; DI+DI-1;DS+2 RESET; SI+LOC AI; DS+7 DEC;DI+DI-1;

10000960 T 0057

T2+DI;DI+T2;SI+T2;IF SB THEN BEGIN DI+T1;DS+1 LIT "-";

10000970 T 0058

DI+T2 END;DS+2 RESET;

10000980 T 0061

57(DS+1 LIT" ");

10000990 T 0061

COMMENT WRITE (FNOK,FMANSI,I,ANS[I]);RELEASE (FIL)

10001000 T 0062

END;

10001010 T 0062

STREAM PROCEDURE OCTAL (FIL,I,T1,T2,T3,T4,T5,T6,T7,T8,T9,T10,T11,

10001020 T 0063

T12,T13,T14,T15,T16,T17,A1,A2,A3,A4,A5,A6,

10001030 T 0063

A7,A8,A9,A10,A11,A12,A13,A14,A15,A16,A17);

10001040 T 0063

VALUE I,T1,T2,T3,T4,T5,T6,T7,T8,T9,T10,T11,T12,T13,T14,T15,

10001050 T 0063

T16,T17,A1,A2,A3,A4,A5,A6,A7,A8,A9,A10,A11,A12,A13,A14,

10001060 T 0063

A15,A16,A17;

10001070 T 0063

BEGIN

10001080 T 0063

LOCAL T ; LABEL L1,L2,L3,L4;

10001090 T 0064

SI+FIL; DI+LOC T ; DS+1 WDS; DI+T ;

10001100 T 0064

35(DS+1 LIT " ");DS+6 LIT"TEMP [";SI+LOC I; DS+2 DEC;

10001110 T 0065

DS+6 LIT "]" = " ; SI+LOC T1;SI+SI+7;IF SC="1" THEN BEGIN

10001120 T 0067

DS+1 LIT "=";GO TO L1 END; DS+1 LIT "+";

10001130 T 0069

L1: SI+LOC T5; DS+1 DEC;SI+LOC T6;DS+1 DEC;SI+LOC T7;

10001140 T 0071

DS+1 DEC;SI+LOC T8;DS+1 DEC;SI+LOC T9;DS+1 DEC;SI+LOC T10;

10001150 T 0073

DS+1 DEC;SI+LOC T11;DS+1 DEC; SI+LOC T12;DS+1 DEC;

10001160 T 0074

SI+LOC T13;DS+1 DEC;SI+LOC T14;DS+1 DEC;SI+LOC T15;

10001170 T 0076

DS+1 DEC;SI+LOC T16; DS+1 DEC;SI+LOC T17;DS+1 DEC;

10001180 T 0077

DS+2 LIT " x";SI+LOC T2;SI+SI+7;IF SC="1" THEN BEGIN

10001190 T 0078

DS+1 LIT "=";GO TO L2 END;DS+1 LIT "+";

10001200 T 0080

L2: SI+LOC T3;DS+1 DEC;SI+LOC T4;DS+1 DEC;52(DS+1 LIT" ");

10001210 T 0081

RELEASE (FIL);

10001220 T 0084

COMMENT CONTINUE OCTAL;

10001230 T 0084

SI+FIL; DI+LOC T ; DS+1 WDS; DI+T ;

10001240 T 0084

35(DS+1 LIT " ");DS+6 LIT"ANS [";SI+LOC I; DS+2 DEC;

10001250 T 0085

DS+6 LIT "]" = " ;SI+LOC A1;SI+SI+7;IF SC="1" THEN BEGIN

10001260 T 0088

DS+1 LIT "=";GO TO L3 END;DS+1 LIT "+";

10001270 T 0090

L3: SI+LOC A5; DS+1 DEC;SI+LOC A6;DS+1 DEC;SI+LOC A7;

10001280 T 0091

DS+1 DEC;SI+LOC A8;DS+1 DEC;SI+LOC A9;DS+1 DEC;SI+LOC A10;

10001290 T 0093

DS+1 DEC;SI+LOC A11;DS+1 DEC;SI+LOC A12;DS+1 DEC; 10001300 T 0094

SI+LOC A13;DS+1 DEC;SI+LOC A14;DS+1 DEC;SI+LOC A15; 10001310 T 0096

DS+1 DEC;SI+LOC A16;DS+1 DEC;SI+LOC A17;DS+1 DEC; 10001320 T 0097

DS+2 LIT " X",SI+LOC A2;SI+SI+7;IF SC="1" THEN BEGIN 10001330 T 0098

DS+1 LIT "=";GO TO L4 END;DS+1 LIT "+"; 10001340 T 0100

L4: SI+LOC A3;DS+1 DEC;SI+LOC A4;DS+1 DEC;S2(DS+1 LIT " "); 10001350 T 0101

RELEASE (FIL) 10001360 T 0104

END; 10001370 T 0104

HEAD (FNOK,NOK,PROCIDS[PNO,OJ,PNO]);COMMENT 1ST TWO LINES PRINTED; 10001380 T 0104

IF NOK THEN GO TO BOTTOM; 10001390 T 0108

FOR I+1 STEP 1 UNTIL CVN DO 10001400 T 0109

IF CV[I] THEN CVTRUE(FNOK,I) ELSE 10001410 T 0110

BEGIN CVFALSE(FNOK,I); 10001420 T 0113

10001430 T 0115

10001440 T 0115

OCTAL (FNOK,I, TEMP[I],[1:1],TEMP[I],[2:1], 10001450 T 0115

TEMP[I],[3:3],TEMP[I],[6:3],TEMP[I],[9:3], 10001460 T 0119

TEMP[I],[12:3],TEMP[I],[15:3],TEMP[I],[18:3], 10001470 T 0123

TEMP[I],[21:3],TEMP[I],[24:3],TEMP[I],[27:3], 10001480 T 0127

TEMP[I],[30:3],TEMP[I],[33:3],TEMP[I],[36:3], 10001490 T 0132

TEMP[I],[39:3],TEMP[I],[42:3],TEMP[I],[45:3], 10001500 T 0136

ANS [I],[1:1],ANS [I],[2:1],ANS [I],[3:3], 10001510 T 0141

ANS [I],[6:3],ANS [I],[9:3],ANS [I],[12:3], 10001520 T 0146

ANS[I],[15:3],ANS[I],[18:3],ANS[I],[21:3], 10001530 T 0150

ANS [I],[24:3],ANS[I],[27:3],ANS[I],[30:3], 10001540 T 0155

ANS [I],[33:3],ANS[I],[36:3],ANS[I],[39:3], 10001550 T 0159

ANS [I],[42:3],ANS[I],[45:3]) 10001560 T 0164

END; 10001570 T 0166

BOTTOM: INITIALIZE 10001580 T 0169

END; 10001590 T 0170

1 PROCEDURE VERIFY;

10001600 T 0022

2 BEGIN

2 10001610 T 0022

3 INTEGER I1;

3 10001620 T 0022

4 START OF SEGMENT ***** 7

5 LABEL L1;

4 10001630 T 0000

6 FOR I1+1 STEP 1 UNTIL CVN DO

5 10001640 T 0000

7 IF TEMP [I1]= ANS [I1] THEN CV [I1]+TRUE ELSE CV[I1]+FALSE;

6 10001650 T 0001

8 FOR I1+1 STEP 1 UNTIL CVN DO

7 10001660 T 0010

9 IF CV [I1] THEN ELSE BEGIN NOK+FALSE; GO TO L1 END;

8 10001670 T 0011

10 NOK+TRUE;

9 10001680 T 0016

11 L1: REPORT

10 10001690 T 0017

12 END;

11 10001700 T 0018

12 7 15 21 LONG, NEXT SEG 2

13 BEGIN

12 10001705 T 0022

14 STREAM PROCEDURE OCTFILL(FPARRAY);

13 10001710 T 0023

14 START OF SEGMENT ***** 8

15 BEGIN

14 10001720 T 0000

16 LOCAL T1;

15 10001730 T 0000

17 SI+FPARRAY;

16 10001740 T 0000

18 DI+LOC T1; DS + 1 WDS; DI + T1;

17 10001750 T 0000

19 DS+48 LIT "1.0.C ALGOL MASTER TEST PROCEDURES ";

18 10001760 T 0001

20 DI+LOC T1; DS + 1 WDS; DI + T1;

19 10001770 T 0007

21 DS+48 LIT "2.4.4 COMMENT ";

20 10001780 T 0008

22 DI+LOC T1; DS + 1 WDS; DI + T1;

21 10001790 T 0014

23 DS+48 LIT "2.5 IDENTIFIERS ";

22 10001800 T 0015

24 DI+LOC T1; DS + 1 WDS; DI + T1;

23 10001810 T 0021

25 DS+48 LIT "2.6 NUMBERS ";

24 10001820 T 0022

26 DI+LOC T1; DS + 1 WDS; DI + T1;

25 10001830 T 0028

27 DS+48 LIT "2.7 STRINGS ";

26 10001840 T 0029

DI+LOC T1; DS + 1 WDS; DI + T1;

10001850 T 0035

DS+48 LIT "3.1 VARIABLES";

10001860 T 0036

DI+LOC T1; DS + 1 WDS; DI + T1;

10001870 T 0042

DS+48 LIT "3.2 PARTIAL WORD DESIGNATORS";

10001880 T 0043

DI+LOC T1; DS + 1 WDS; DI + T1;

10001890 T 0049

DS+48 LIT "3.3 FUNCTION DESIGNATORS";

10001900 T 0050

DI+LOC T1; DS + 1 WDS; DI + T1;

10001910 T 0056

DS+48 LIT "3.4 STANDARD FUNCTIONS";

10001920 T 0057

DI+LOC T1; DS + 1 WDS; DI + T1;

10001930 T 0063

DS+48 LIT "3.3.5 TRANSFER FUNCTIONS";

10001940 T 0064

DI+LOC T1; DS + 1 WDS; DI + T1;

10001950 T 0070

DS+48 LIT "3.4.3.2 GENERAL ARITHMETIC EXPRESSIONS, IF CLAUSE";

10001960 T 0071

DI+LOC T1; DS + 1 WDS; DI + T1;

10001970 T 0077

DS+48 LIT "3.4.4.1 ARITHMETIC OPERATOR, +";

10001980 T 0078

DI+LOC T1; DS + 1 WDS; DI + T1;

10001990 T 0084

DS+48 LIT "3.4.4.1 ARITHMETIC OPERATOR, -";

10002000 T 0085

DI+LOC T1; DS + 1 WDS; DI + T1;

10002010 T 0091

DS+48 LIT "3.4.4.1 ARITHMETIC OPERATOR, x";

10002020 T 0092

DI+LOC T1; DS + 1 WDS; DI + T1;

10002030 T 0098

DS+48 LIT "3.4.4.1 ARITHMETIC OPERATOR, /";

10002040 T 0099

DI+LOC T1; DS + 1 WDS; DI + T1;

10002050 T 0105

DS+48 LIT "3.4.4.1 ARITHMETIC OPERATOR, DIV";

10002060 T 0106

DI+LOC T1; DS + 1 WDS; DI + T1;

10002070 T 0112

DS+48 LIT "3.4.4.1 ARITHMETIC OPERATOR, MOD";

10002080 T 0113

DI+LOC T1; DS + 1 WDS; DI + T1;

10002090 T 0119

DS+48 LIT "3.4.4.1 ARITHMETIC OPERATOR, *";

10002100 T 0120

DI+LOC T1; DS + 1 WDS; DI + T1;

10002110 T 0126

DS+48 LIT "3.4.4.2 ARITHMETIC EXPRESSION TYPES";

10002120 T 0127

DI+LOC T1; DS + 1 WDS; DI + T1;

10002130 T 0133

DS+48 LIT "3.4.5 PRECEDENCE OF ARITHMETIC OPERATORS";

10002140 T 0134

DI+LOC T1; DS + 1 WDS; DI + T1;

10002150 T 0140

DS+48 LIT "3.4.6 NUMERICAL LIMITATIONS

";

10002160 T 0141

DI+LOC T1; DS + 1 WDS; DI + T1;

10002170 T 0147

DS+48 LIT "3.5.3.2GENERAL BOOLEAN EXP, IF CLAUSE

";

10002180 T 0148

DI+LOC T1; DS + 1 WDS; DI + T1;

10002190 T 0154

DS+48 LIT "3.5.5.1RELATIONAL OPERATOR,<

";

10002200 T 0155

DI+LOC T1; DS + 1 WDS; DI + T1;

10002210 T 0161

DS+48 LIT "3.5.5.1RELATIONAL OPERATOR,<=

";

10002220 T 0162

DI+LOC T1; DS + 1 WDS; DI + T1;

10002230 T 0168

DS+48 LIT "3.5.5.1RELATIONAL OPERATOR,=

";

10002240 T 0169

DI+LOC T1; DS + 1 WDS; DI + T1;

10002250 T 0175

DS+48 LIT "3.5.5.1RELATIONAL OPERATOR,>=

";

10002260 T 0176

DI+LOC T1; DS + 1 WDS; DI + T1;

10002270 T 0182

DS+48 LIT "3.5.5.1RELATIONAL OPERATOR,>

";

10002280 T 0183

DI+LOC T1; DS + 1 WDS; DI + T1;

10002290 T 0189

DS+48 LIT "3.5.5.1RELATIONAL OPERATOR,≠

";

10002300 T 0190

DI+LOC T1; DS + 1 WDS; DI + T1;

10002310 T 0196

DS+48 LIT "3.5.5.2LOGICAL OPERATOR, NOT

";

10002320 T 0197

DI+LOC T1; DS + 1 WDS; DI + T1;

10002330 T 0203

DS+48 LIT "3.5.5.2LOGICAL OPERATOR, AND

";

10002340 T 0204

DI+LOC T1; DS + 1 WDS; DI + T1;

10002350 T 0210

DS+48 LIT "3.5.5.2LOGICAL OPERATOR, OR

";

10002360 T 0211

DI+LOC T1; DS + 1 WDS; DI + T1;

10002370 T 0217

DS+48 LIT "3.5.5.2LOGICAL OPERATOR, IMP

";

10002380 T 0218

DI+LOC T1; DS + 1 WDS; DI + T1;

10002390 T 0224

DS+48 LIT "3.5.5.2LOGICAL OPERATOR, EQV

";

10002400 T 0225

DI+LOC T1; DS + 1 WDS; DI + T1;

10002410 T 0231

DS+48 LIT "3.6.3.1SIMPLE DESIGNATIONAL EXPRESSION

";

10002420 T 0232

DI+LOC T1; DS + 1 WDS; DI + T1;

10002430 T 0238

DS+48 LIT "3.6.3.2GENERAL DESIGNATIONAL EXPRESSION

";

10002440 T 0239

DI+LOC T1; DS + 1 WDS; DI + T1;

10002450 T 0245

1 DS+48 LIT "3.6.4 SUBSCRIPT EXP OF SWITCH DESIGNATOR ";

10002460 T 0246

2 DI+LOC T1; DS + 1 WDS; DI + T1;

10002470 T 0252

3 DS+48 LIT "4.1 COMPOUND STATEMENT ";

10002480 T 0253

4 DI+LOC T1; DS + 1 WDS; DI + T1;

10002490 T 0259

5 DS+48 LIT "4.1 BLOCK & 5.0.2 DECLARATION ";

10002500 T 0260

6 DI+LOC T1; DS + 1 WDS; DI + T1;

10002510 T 0266

7 DS+48 LIT "4.2 ASSIGNMENT STATEMENT ";

10002520 T 0267

8 DI+LOC T1; DS + 1 WDS; DI + T1;

10002530 T 0273

9 DS+48 LIT "4.3 GO TO STATEMENT ";

10002540 T 0274

10 DI+LOC T1; DS + 1 WDS; DI + T1;

10002550 T 0280

11 DS+48 LIT "4.4 DUMMY STATEMENT ";

10002560 T 0281

12 DI+LOC T1; DS + 1 WDS; DI + T1;

10002570 T 0287

13 DS+48 LIT "4.5.3.1IF STATEMENT ";

10002580 T 0288

14 DI+LOC T1; DS + 1 WDS; DI + T1;

10002590 T 0294

15 DS+48 LIT "4.5.3.2IF - ELSE STATEMENT ";

10002600 T 0295

16 DI+LOC T1; DS + 1 WDS; DI + T1;

10002610 T 0301

17 DS+48 LIT "4.5.3.3IF - FOR STATEMENT ";

10002620 T 0302

18 DI+LOC T1; DS + 1 WDS; DI + T1;

10002630 T 0308

19 DS+48 LIT "4.6.4.1FOR ARITH EXP ELEMENT ";

10002640 T 0309

20 DI+LOC T1; DS + 1 WDS; DI + T1;

10002650 T 0315

21 DS+48 LIT "4.6.4.2FOR STEP-UNTIL ELEMENT ";

10002660 T 0316

22 DI+LOC T1; DS + 1 WDS; DI + T1;

10002670 T 0322

23 DS+48 LIT "4.6.4.3FOR WHILE ELEMENT ";

10002680 T 0323

24 DI+LOC T1; DS + 1 WDS; DI + T1;

10002690 T 0329

25 DS+48 LIT "4.6.4.4FOR STEP-WHILE ELEMENT ";

10002700 T 0330

26 DI+LOC T1; DS + 1 WDS; DI + T1;

10002710 T 0336

27 DS+48 LIT "4.6.5 FOR CONTROLLED VARIABLE ";

10002720 T 0337

28 DI+LOC T1; DS + 1 WDS; DI + T1;

10002730 T 0343

29 DS+48 LIT "4.6.6 GO TO INTO FOR ";

10002740 T 0344

DI+LOC T1; DS + 1 WDS; DI + T1;

10002750 T 0350

1 DS+48 LIT "4.7.3.1CALL BY VALUE";

10002760 T 0351

2 DI+LOC T1; DS + 1 WDS; DI + T1;

10002770 T 0357

3 DS+48 LIT "4.7.3.2CALL BY NAME";

10002780 T 0358

4 DI+LOC T1; DS + 1 WDS; DI + T1;

10002790 T 0364

5 DS+48 LIT "4.8.2.3READ STATEMENT";

10002800 T 0365

6 DI+LOC T1; DS + 1 WDS; DI + T1;

10002810 T 0371

7 DS+48 LIT "4.8.3.3WRITE STATEMENT";

10002820 T 0372

8 DI+LOC T1; DS + 1 WDS; DI + T1;

10002830 T 0378

9 DS+48 LIT "4.8.4.3RELEASE STATEMENT";

10002840 T 0379

10 DI+LOC T1; DS + 1 WDS; DI + T1;

10002850 T 0385

11 DS+48 LIT "4.9.3 FILL STATEMENT";

10002860 T 0386

12 DI+LOC T1; DS + 1 WDS; DI + T1;

10002870 T 0392

13 DS+48 LIT "5.0.2 DELCLARATIONS";

10002880 T 0393

14 DI+LOC T1; DS + 1 WDS; DI + T1;

10002900 T 0399

15 DS+48 LIT "5.1 TYPE DECLARATION";

10002900 T 0400

16 DI+LOC T1; DS + 1 WDS; DI + T1;

10002910 T 0406

17 DS+48 LIT "5.2.3.1SAVE ARRAY";

10002920 T 0407

18 DI+LOC T1; DS + 1 WDS; DI + T1;

10002930 T 0413

19 DS+48 LIT "5.2.3.2OWN ARRAY";

10002940 T 0414

20 DI+LOC T1; DS + 1 WDS; DI + T1;

10002950 T 0420

21 DS+48 LIT "5.2.3.3TYPE ARRAY";

10002960 T 0421

22 DI+LOC T1; DS + 1 WDS; DI + T1;

10002970 T 0427

23 DS+48 LIT "5.2.4 BOUND PAIR LIST";

10002980 T 0428

24 DI+LOC T1; DS + 1 WDS; DI + T1;

10002990 T 0434

25 DS+48 LIT "5.3.3 SWITCH DECLARATION";

10003000 T 0435

26 DI+LOC T1; DS + 1 WDS; DI + T1;

10003010 T 0441

27 DS+48 LIT "5.3.4 SWITCH LIST EXPRESSION";

10003020 T 0442

28 DI+LOC T1; DS + 1 WDS; DI + T1;

10003030 T 0448

29 DS+48 LIT "5.3.5 SWITCH SCOPE";

10003040 T 0449

30 DI+LOC T1; DS + 1 WDS; DI + T1;

10003050 T 0455

DS+48 LIT "5.4	DEFINE DECLARATION	";	10003060 T	0456
	DI+LOC T1; DS + 1 WDS; DI + T1;		10003070 T	0462
DS+48 LIT "5.5	LABEL DECLARATION	";	10003080 T	0463
	DI+LOC T1; DS + 1 WDS; DI + T1;		10003090 T	0469
DS+48 LIT "5.6.3.1	FILE BUFFER PART	";	10003100 T	0470
	DI+LOC T1; DS + 1 WDS; DI + T1;		10003110 T	0476
DS+48 LIT "5.6.3.2	FILE I-O UNIT CONTROL	";	10003120 T	0477
	DI+LOC T1; DS + 1 WDS; DI + T1;		10003130 T	0483
DS+48 LIT "5.6.3.3	FILE DISPOSITION	";	10003140 T	0484
	DI+LOC T1; DS + 1 WDS; DI + T1;		10003150 T	0490
DS+48 LIT "5.6.3.4	FILE BLOCKING	";	10003160 T	0491
	DI+LOC T1; DS + 1 WDS; DI + T1;		10003170 T	0497
DS+48 LIT "5.6.3.5	FILE END-OF-FILE	";	10003180 T	0498
	DI+LOC T1; DS + 1 WDS; DI + T1;		10003190 T	0504
DS+48 LIT "5.6.3.6	FILE SAVE FACTOR	";	10003200 T	0505
	DI+LOC T1; DS + 1 WDS; DI + T1;		10003210 T	0511
DS+48 LIT "5.6.3.7	FILE REVERSE	";	10003220 T	0512
	DI+LOC T1; DS + 1 WDS; DI + T1;		10003230 T	0518
DS+48 LIT "5.7.3.1	FORMAT A PHRASE IN	";	10003240 T	0519
	DI+LOC T1; DS + 1 WDS; DI + T1;		10003250 T	0525
DS+48 LIT "5.7.3.1	FORMAT D PHRASE IN	";	10003260 T	0526
	DI+LOC T1; DS + 1 WDS; DI + T1;		10003270 T	0532
DS+48 LIT "5.7.3.1	FORMAT E PHRASE IN	";	10003280 T	0533
	DI+LOC T1; DS + 1 WDS; DI + T1;		10003290 T	0539
DS+48 LIT "5.7.3.1	FORMAT F PHRASE IN	";	10003300 T	0540
	DI+LOC T1; DS + 1 WDS; DI + T1;		10003310 T	0546
DS+48 LIT "5.7.3.1	FORMAT I PHRASE IN	";	10003320 T	0547
	DI+LOC T1; DS + 1 WDS; DI + T1;		10003330 T	0553
DS+48 LIT "5.7.3.1	FORMAT L PHRASE IN	";	10003340 T	0554
	DI+LOC T1; DS + 1 WDS; DI + T1;		10003350 T	0560
DS+48 LIT "5.7.3.1	FORMAT O PHRASE IN	";	10003360 T	0561

DI+LOC T1; DS + 1 WDS; DI + T1;

10003370 T 0567

1 DS+48 LIT "5.7.3.1FORMAT X PHRASE IN ";

10003380 T 0568

2 DI+LOC T1; DS + 1 WDS; DI + T1;

10003390 T 0574

3 DS+48 LIT "5.7.3.3FORMAT A PHRASE OUT ";

10003400 T 0575

4 DI+LOC T1; DS + 1 WDS; DI + T1;

10003410 T 0581

5 DS+48 LIT "5.7.3.3FORMAT D PHRASE OUT ";

10003420 T 0582

6 DI+LOC T1; DS + 1 WDS; DI + T1;

10003430 T 0588

7 DS+48 LIT "5.7.3.3FORMAT E PHRASE OUT ";

10003440 T 0589

8 DI+LOC T1; DS + 1 WDS; DI + T1;

10003450 T 0595

9 DS+48 LIT "5.7.3.3FORMAT F PHRASE OUT ";

10003460 T 0596

10 DI+LOC T1; DS + 1 WDS; DI + T1;

10003470 T 0602

11 DS+48 LIT "5.7.3.3FORMAT I PHRASE OUT ";

10003480 T 0603

12 DI+LOC T1; DS + 1 WDS; DI + T1;

10003490 T 0609

13 DS+48 LIT "5.7.3.3FORMAT L PHRASE OUT ";

10003500 T 0610

14 DI+LOC T1; DS + 1 WDS; DI + T1;

10003510 T 0616

15 DS+48 LIT "5.7.3.3FORMAT O PHRASE OUT ";

10003520 T 0617

16 DI+LOC T1; DS + 1 WDS; DI + T1;

10003530 T 0623

17 DS+48 LIT "5.7.3.3FORMAT X PHRASE OUT ";

10003540 T 0624

18 DI+LOC T1; DS + 1 WDS; DI + T1;

10003550 T 0630

19 DS+48 LIT "5.8.3 LIST DECLARATION ";

10003560 T 0631

20 DI+LOC T1; DS + 1 WDS; DI + T1;

10003570 T 0637

21 DS+48 LIT "5.9.3 FORWARD REFERENCE DECLARATION ";

10003580 T 0638

22 DI+LOC T1; DS + 1 WDS; DI + T1;

10003590 T 0644

23 DS+48 LIT "5.1.0.4MONITOR ";

10003600 T 0645

24 DI+LOC T1; DS + 1 WDS; DI + T1;

10003610 T 0651

25 DS+48 LIT "5.1.0.5DUMP ";

10003620 T 0652

26 DI+LOC T1; DS + 1 WDS; DI + T1;

10003630 T 0658

27 DS+48 LIT "5.11.3.1PROCEDURE DECLARATION (HEADING) ";

10003640 T 0659

28 DI+LOC T1; DS + 1 WDS; DI + T1;

10003650 T 0665

29 DS+48 LIT "5.12.3.1STREAM VALUE PART ";

10003660 T 0666

DI+LOC T1; DS + 1 WDS; DI + T1;

10003670 T 0672

	DS+48 LIT "5.12.3.2STREAM DECLARATION	DI+LOC T1; DS + 1 WDS; DI + T1;	10003680 T 0673
1			
2			
3	DS+48 LIT "5.12.5.3SET ADDRESS STATEMENT	DI+LOC T1; DS + 1 WDS; DI + T1;	10003690 T 0679
4			
5			
6			
7	DS+48 LIT "5.12.5.4STORE ADDRESS STATEMENT	DI+LOC T1; DS + 1 WDS; DI + T1;	10003700 T 0680
8			
9			
10			
11	DS+48 LIT "5.12.5.5RECALL ADDRESS STATEMENT	DI+LOC T1; DS + 1 WDS; DI + T1;	10003710 T 0686
12			
13			
14			
15	DS+48 LIT "5.12.5.6SKIP ADDRESS STATEMENT	DI+LOC T1; DS + 1 WDS; DI + T1;	10003720 T 0687
16			
17			
18			
19	DS+48 LIT "5.12.6.3TRANSFER WORDS	DI+LOC T1; DS + 1 WDS; DI + T1;	10003730 T 0693
20			
21			
22			
23	DS+48 LIT "5.12.6.4TRANSFER CHARACTERS	DI+LOC T1; DS + 1 WDS; DI + T1;	10003740 T 0694
24			
25			
26			
27	DS+48 LIT "5.12.6.5INPUT CONVERT	DI+LOC T1; DS + 1 WDS; DI + T1;	10003750 T 0700
28			
29			
30			
31	DS+48 LIT "5.12.6.6OUTPUT CONVERT	DI+LOC T1; DS + 1 WDS; DI + T1;	10003760 T 0701
32			
33			
34			
35	DS+48 LIT "5.12.6.7TRANSFER AND ADD	DI+LOC T1; DS + 1 WDS; DI + T1;	10003770 T 0707
36			
37			
38			
39	DS+48 LIT "5.12.6.8TRANSFER CHARACTER PORTIONS	DI+LOC T1; DS + 1 WDS; DI + T1;	10003780 T 0708
40			
41			
42			
43	DS+48 LIT "5.12.6.9LITERAL CHARACTERS	DI+LOC T1; DS + 1 WDS; DI + T1;	10003790 T 0714
44			
45			
46			
47	DS+48 LIT "5.12.6.10LITERAL BITS	DI+LOC T1; DS + 1 WDS; DI + T1;	10003800 T 0715
48			
49			
50			
51	DS+48 LIT "5.12.7 STREAM GO TO STATEMENT	DI+LOC T1; DS + 1 WDS; DI + T1;	10003810 T 0721
52			
53			
54			
55	DS+48 LIT "5.12.8 SKIP BIT STATEMENT	DI+LOC T1; DS + 1 WDS; DI + T1;	10003820 T 0722
56			
57			
	DS+48 LIT "5.12.9 STREAM TALLY STATEMENT		10003830 T 0728

DI+LOC T1; DS + 1 WDS; DI + T1;

10003990 T 0784

1 DS+48 LIT "5.12.10 STREAM NEST STATEMENT";

10004000 T 0785

2 DI+LOC T1; DS + 1 WDS; DI + T1;

10004010 T 0791

3 DS+48 LIT "5.12.10.3JUMP OUT STATEMENT";

10004020 T 0792

4 DI+LOC T1; DS + 1 WDS; DI + T1;

10004030 T 0798

5 DS+48 LIT "5.12.11 STREAM RELEASE STATEMENT";

10004040 T 0799

6 DI+LOC T1; DS + 1 WDS; DI + T1;

10004050 T 0805

7 DS+48 LIT "5.12.12 COMPOUND STREAM STATEMENT";

10004060 T 0806

8 DI+LOC T1; DS + 1 WDS; DI + T1;

10004070 T 0812

9 DS+48 LIT "5.12.13.4SOURCE WITH LITERAL";

10004080 T 0813

10 DI+LOC T1; DS + 1 WDS; DI + T1;

10004090 T 0819

11 DS+48 LIT "5.12.13.5SOURCE WITH DESTINATION";

10004100 T 0820

12 DI+LOC T1; DS + 1 WDS; DI + T1;

10004110 T 0826

13 DS+48 LIT "5.12.13.6SOURCE BIT";

10004120 T 0827

14 DI+LOC T1; DS + 1 WDS; DI + T1;

10004130 T 0833

15 DS+48 LIT "5.12.13.7TOGGLE";

10004140 T 0834

16 DI+LOC T1; DS + 1 WDS; DI + T1;

10004150 T 0840

17 DS+48 LIT "5.12.13.8SOURCE FOR ALPHA";

10004160 T 0841

18 DI+LOC T1; DS + 1 WDS; DI + T1;

10004170 T 0847

19 DS+48 LIT "4.6.4 FOR LIST ELEMENTS";

10004180 T 0848

20 DI+LOC T1; DS + 1 WDS; DI + T1;

10004190 T 0854

21 DS+48 LIT "3.5.6 PRECEDENCE OF LOGICAL OPERATORS";

10004200 T 0855

22 DI+LOC T1; DS + 1 WDS; DI + T1;

10004210 T 0861

23 DS+48 LIT "4.3 GO TO STATEMENT (PROCEDURES)";

10004220 T 0862

24 DI+LOC T1; DS + 1 WDS; DI + T1;

10004230 T 0868

25 DS+48 LIT "4.3 GO TO STATEMENT (SWITCHES)";

10004240 T 0869

26 DI+LOC T1; DS + 1 WDS; DI + T1;

10004250 T 0875

27 DS+48 LIT "5.11.3.2PROCEDURE BODY VARIATIONS";

10004260 T 0876

28 DI+LOC T1; DS + 1 WDS; DI + T1;

10004270 T 0882

29 DS+48 LIT "5.11.3.2RECURSIVE PROCEDURES";

10004280 T 0883

30 DI+LOC T1; DS + 1 WDS; DI + T1;

10004290 T 0889

DS+48 LIT "5.11.4 TYPED PROCEDURE"; 10004300 T 0890

DI+LOC T1; DS + 1 WDS; DI + T1; 10004310 T 0896

DS+48 LIT "5.11 A WEB OF PROCEDURE CALLS"; 10004320 T 0897

DI+LOC T1; DS + 1 WDS; DI + T1; 10004330 T 0903

DS+48 LIT "5.12.3.1STREAM CALL BY ADDRESS"; 10004340 T 0904

DI+LOC T1; DS + 1 WDS; DI + T1; 10004350 T 0910

DS+48 LIT "5.7 FORMAT DECLARATIONS"; 10004360 T 0911

DI+LOC T1; DS + 1 WDS; DI + T1; 10004361 T 0917

DS+48 LIT "5.12.12 COMPOUND STREAM STATEMENT"; 10004362 T 0918

END; 10004370 T 0924

FORMAT BL(X120); 10004375 T 0924

START OF SEGMENT ***** 9

9 T S 4 LONG, NEXT SEG 8

OCTFILL(PROCIDS); 10004380 T 0924

WRITE(FNOK, BL); COMMENT TO ESTABLISH SINGLE SPACING; 10004385 T 0926

CVN+0; PND+0; VERIFY 10004390 T 0929

END; 10004400 T 0930

8 T S 932 LONG, NEXT SEG 2

BEGIN 10004410 T 0024

PROCEDURE P1; 10010010 T 0024

START OF SEGMENT ***** 10

COMMENT 2.4.4 LEGITIMATE USE OF COMMENT; 10010020 T 0000

BEGIN 10010030 T 0000

BEGIN TEMP [1]+1; BEGIN TEMP[2]+2; TEMP[3]+3 END; 10010035 T 0000

BEGIN END 10010040 T 0005

END; 10010050 T 0005

BEGIN 10010060 T 0005

COMMENT TEMP [1]+77; 10010070 T 0005

TEMP [4]+4; 10010080 T 0005

COMMENT BEGIN TEMP [2]+77; 10010090 T 0007

BEGIN 10010100 T 0007

Data Documents/Inc.

1	TEMP [5]+5;	10010110 T 0007
2	COMMENT (,X:+())["GO TO L END WHILE ELSE	10010120 T 0008
3	UNTIL # ARRAY;	10010130 T 0008
4	TEMP [6]+6	10010140 T 0008
5	END;	10010150 T 0009
6	BEGIN	10010170 T 0010
7	COMMENT;	10010180 T 0010
8	END	10010190 T 0010
9	END;	10010210 T 0010
10	CVN+6; PNO+1; FILL ANS[*] WITH OCT1, OCT2, OCT3, OCT4, OCT5,	10010230 T 0010
11		START OF SEGMENT ***** 11
12	OCT6 ;	10010240 T 0013
13		11 T S 6 LONG, NEXT SEG 10
14	VERIFY	10010250 T 0013
15	END;	10010255 T 0013
16	PROCEDURE P2; COMMENT 2.5 LEGITIMATE IDENTIFIERS;	10020010 T 0014
17	BEGIN	10020020 T 0014
18	LABEL EXIT, GOOTOEXIT;	10020030 T 0014
19		START OF SEGMENT ***** 12
20	BOOLEAN B1,NOTT,T,Y,TANDY,B2;	10020040 T 0000
21	INTEGER I,I1,FOROI1, IOSTEP01UNTIL01DO,	10020050 T 0000
22	ABCDEFGHIJKLMNUPQRSTUVWXYZ0123456789A1B2C3D4E5F6G7H8I9J10K11L12,	10020060 T 0000
23	ABCDEFGHIJKLMNUPQRSTUVWXYZ0123456789A1B2C3D4E5F6G7H8I9J10K11L1;	10020070 T 0000
24	GOOTOEXIT;	10020080 T 0000
25	NOTT+TRUE; T+TRUE; FOROI1+4;Y+TRUE;I+3;I1+1;TANDY+FALSE;	10020090 T 0000
26	IOSTEP01UNTIL01DO+5;	10020100 T 0005
27	B1+NOTT;B2+TANDY;	10020110 T 0006
28	ABCDEFGHIJKLMNUPQRSTUVWXYZ0123456789A1B2C3D4E5F6G7H8I9J10K11L12+6;	10020120 T 0007
29	ABCDEFGHIJKLMNUPQRSTUVWXYZ0123456789A1B2C3D4E5F6G7H8I9J10K11L1+7;	10020130 T 0008
30	FOROI1+IOSTEP01UNTIL01DO;	10020140 T 0009
31	EXIT: IF B1 THEN TEMP [1]+1;	10020150 T 0009

IF NOTT THEN TEMP [2]+2;

10020160 T 0012

IF T THEN TEMP [3]+3; IF Y THEN TEMP [4]+4;

10020170 T 0015

IF TANDY THEN ELSE TEMP[5]+5; IF B2 THEN ELSE TEMP[6]+6;

10020180 T 0020

IF ABCDEFGHIJKLMNOPQRSTUVWXYZ0123456789A1B2C3D4E5F6G7H8I9J10K11L12 = 6

10020190 T 0026

THEN TEMP [7]+7;

10020200 T 0026

IF ABCDEFGHIJKLMNOPQRSTUVWXYZ0123456789A1B2C3D4E5F6G7H8I9J10K11L1 = 7

10020210 T 0029

THEN TEMP [8]+8;

10020220 T 0029

IF I=3 THEN TEMP [9]+9; IF I1=1 THEN TEMP [10]+10;

10020230 T 0032

IF FOROI1=5 THEN TEMP [11]+11;

10020240 T 0038

IF IOSTEP01UNTIL01DU =5 THEN TEMP [12]+12;

10020250 T 0041

FILL ANS [*] WITH OCT1,OCT2,OCT3,OCT4,OCT5,OCT6,OCT7,OCT10,OCT11,

10020260 T 0044

START OF SEGMENT ***** 13

OCT12,OCT13,OCT14;

10020270 T 0045

13 JS 12 LONG, NEXT SEG 12

CVN+12; PNO+2;

10020280 T 0045

VERIFY

10020290 T 0047

END;

10020300 T 0047

12 JS 52 LONG, NEXT SEG 10

PROCEDURE P3; COMMENT THE USE OF NUMERS EXCLUDING SIZE LIMITATIONS.

10030010 T 0014

EXTENDED ALGOL MANUAL SEC 2.6. KM, JULY 26 1963;

10030020 T 0014

BEGIN

10030030 T 0014

COMMENT UNSIGNED NUMBERS;

10030040 T 0014

TEMP[1]+9;

10030050 T 0014

TEMP[2]+99;

10030060 T 0016

TEMP[3]+.5;

10030070 T 0018

TEMP[4]+9.5;

10030080 T 0020

TEMP[5]+02;

10030090 T 0022

TEMP[6]+0+3;

10030100 T 0023

TEMP[7]+0-3;

10030110 T 0025

TEMP[8]+202;

10030120 T 0027

TEMP[9]+20-2;

10030130 T 0029

Data Documents/Inc.

TEMP[10]+4e+2;	10030140 T 0030
TEMP[11]+4.5e-2;	10030150 T 0032
TEMP[12]+4.5e+2;	10030160 T 0034
COMMENT SIGNED NUMBERS;	10030170 T 0036
TEMP[13]+-9;	10030180 T 0036
TEMP[14]+-99;	10030190 T 0038
TEMP[15]+-.5;	10030200 T 0040
TEMP[16]+++.5;	10030210 T 0042
TEMP[17]+-9.5;	10030220 T 0043
TEMP[18]++9.5;	10030230 T 0045
TEMP[19]+-e2;	10030240 T 0047
TEMP[20]+-e+3;	10030250 T 0049
TEMP[21]+-e1;	10030260 T 0051
TEMP[22]+-2e2;	10030270 T 0053
TEMP[23]+-2e-2;	10030280 T 0055
TEMP[24]++4e-2;	10030290 T 0057
TEMP[25]++4.5e-2;	10030300 T 0059
TEMP[26]+-2.5e+2;	10030310 T 0061
COMMENT EFFECT OF ZERO ON SELECTED VALUES;	10030320 T 0063
TEMP[27]+-.0;	10030330 T 0063
TEMP[28]+-e0;	10030340 T 0065
TEMP[29]+-2.5e-0;	10030350 T 0067
TEMP[30]++2.5e-0;	10030360 T 0069
TEMP[31]+-0e+10;	10030370 T 0070
TEMP[32]+-0e+0;	10030380 T 0072
TEMP[33]+-.0e-0;	10030390 T 0074
TEMP[34]+-.5e+0;	10030400 T 0076
TEMP[35]+4e-0;	10030410 T 0078
TEMP[36]+0e+4;	10030420 T 0080
TEMP[37]+0e2;	10030430 T 0082

FILL ANS[*] WITH 9, 99, OCT1010000000000004,

10030440 T 0084

START OF SEGMENT ***** 14

OCT1010000000000114, 100, 1000,

10030450 T 0085

OCT1204061115645707, 200, OCT1161217270243656,

10030460 T 0085

400, OCT1162702436560510, 450,

10030470 T 0085

OCT200000000000011, OCT2000000000000143,

10030480 T 0085

OCT3010000000000004, OCT1010000000000004,

10030490 T 0085

OCT3010000000000114, OCT1010000000000114,

10030500 T 0085

OCT3000000000000144, OCT3000000000001750,

10030510 T 0085

OCT3131200000000000, OCT3123100000000000,

10030520 T 0085

OCT3161217270243656, OCT1162436560507534,

10030530 T 0085

OCT1162702436560510, OCT3123720000000000,

10030540 T 0085

OCT1000000000000000, OCT3141000000000000,

10030550 T 0085

OCT3142400000000000, OCT1142400000000000,

10030560 T 0085

OCT1000000000000000, OCT1000000000000000,

10030570 T 0085

OCT1000000000000000, OCT3154000000000000,

10030580 T 0085

OCT1144000000000000, 0, 0;

10030590 T 0085

14 TS 37 LONG, NEXT SEG 10

CVN + 37;

10030600 T 0085

PNO + 3;

10030610 T 0086

VERIFY

10030620 T 0087

END;

10030630 T 0087

PROCEDURE P4; COMMENT 2,7 STRINGS;

10040010 T 0104

BEGIN

10040020 T 0104

TEMP[1]+"";

10040030 T 0104

TEMP[2]+"";

10040040 T 0105

TEMP[3]+ "ABCDEF";

10040050 T 0107

TEMP[4]+ "A C E ";

10040060 T 0109

TEMP[5]+ "A=J+IS";

10040070 T 0111

TEMP[6]+ "[>=<89";

10040080 T 0112

Data Documents/Inc.

TEMP[7]+ "SQRT Y";

10040090 T 0114

FILL ANS [*] WITH OCT77, OCT60, OCT212223242526,

10040100 T 0116

START OF SEGMENT ***** 15

OCT216023602560, OCT217541373152, OCT331654361011,

10040110 T 0118

OCT625051636070;

10040120 T 0118

15 ,S 7 LONG, NEXT SEG 10

CVN+7; PNO+4; VERIFY

10040130 T 0118

END;

10040140 T 0119

PROCEDURE PS; COMMENT 3.1 VARIABLES;

10050010 T 0126

BEGIN

10050020 T 0126

COMMENT SIMPLE VARIABLES ;

10050030 T 0126

INTEGER ALGOL, BAGOL, SVE , AC, I;

10050040 T 0126

START OF SEGMENT ***** 16

COMMENT SUBSCRIPTED VARIABLES;

10050060 T 0000

ARRAY SUBSC[0:5], TWO[0:1,0:1], TOW[0:1,0:1], VAR[0:5];

10050070 T 0000

ALGOL+123; BAGOL+ALGOL; SVE+ "ASSBLY"; AC+ "SAVE";

10050075 T 0007

FOR I + 0 STEP 1 UNTIL 5 DO

10050080 T 0010

BEGIN SUBSC[I] + I END;

10050090 T 0014

FOR I + 1 STEP 1 UNTIL 5 DO VAR[I] + SUBSC[I];

10050100 T 0017

I + 6;

10050110 T 0022

VAR[I-6] + ALGOL; TWO[1,1] + 220; TOW[1,1] + TWO[I-5, I-5];

10050120 T 0023

TEMP[1] + ALGOL; TEMP[2] + BAGOL; TEMP[3] + SVE ;

10050130 T 0031

TEMP[4] + AC; TEMP[5] + VAR[1]; TEMP[6] + VAR[2];

10050140 T 0036

TEMP[7] + VAR[3]; TEMP[8] + VAR[4]; TEMP[9] + VAR[5];

10050150 T 0042

TEMP[10] + VAR[0]; TEMP[11] + TOW[1,1];

10050160 T 0048

FILL ANS [*] WITH OCT173, OCT173, OCT216262224370, OCT62216525,

10050170 T 0053

START OF SEGMENT ***** 17

OCT1, OCT2, OCT3, OCT4, OCT5, OCT173, OCT334;

10050180 T 0054

17 ,S 11 LONG, NEXT SEG 16

PNO+5; CVN+11; VERIFY

10050190 T 0054

END;

10050200 T 0056

16 TS 63 LONG, NEXT SEG 10

PROCEDURE P6; COMMENT 3.2 PARTIAL WORD DESIGNATORS;

10060010 T 0126

BEGIN

10060020 T 0126

INTEGER I,VAR;

10060030 T 0126

START OF SEGMENT ***** 18

ARRAY VARAY[1:2,1:5];

10060040 T 0000

COMMENT VARIABLES;

10060050 T 0002

I + 79 ;

10060055 T 0002

VAR + 549755813887;

10060060 T 0002

TEMP[1]+VAR.[1:47];

10060070 T 0003

VAR + 134;

10060080 T 0006

TEMP[2]+ VAR.[40:8];

10060090 T 0007

TEMP[3]+ VAR.[40:6];

10060100 T 0009

VARAY[1,1]+ 1962;

10060110 T 0011

TEMP[4]+ VARAY[1,1].[45:2];

10060120 T 0014

VARAY[1,1].[43:1] + 2;

10060130 T 0018

TEMP[5] + VARAY [1,1];

10060140 T 0023

VAR +113;

10060150 T 0026

TEMP[6] + (VAR + 7).[39:6];

10060160 T 0027

VAR+4316;

10060170 T 0030

TEMP[7] + VAR.[43:2] + 1.[39:9];

10060180 T 0031

FILL ANS[*] WITH OCT0007777777777777, OCT206, OCT041, OCT1,

10060190 T 0034

START OF SEGMENT ***** 19

OCT3652, OCT17, OCT122;

10060200 T 0036

19 TS 7 LONG, NEXT SEG 18

CVN+7; PNO+6; VERIFY

10060210 T 0036

END;

10060220 T 0037

18 TS 45 LONG, NEXT SEG 10

PROCEDURE P7; COMMENT 3.3 FUNCTION DESIGNATORS;

10070010 T 0126

Data Documents/Inc.

BEGIN

10070020 T 0126

INTEGER I,J,L,K;

10070030 T 0126

START OF SEGMENT ***** 20

ARRAY A[1:1];

10070040 T 0000

INTEGER PROCEDURE NOFORMALPARAMETERS;

10070050 T 0001

NOFORMALPARAMETERS+1;

10070060 T 0001

REAL PROCEDURE ARITH (VAR1,VAR2,VAR3);

10070070 T 0006

VALUE VAR1,VAR2,VAR3;

10070090 T 0006

INTEGER VAR1,VAR2,VAR3;

10070100 T 0006

BEGIN

10070105 T 0006

TEMP[2]← VAR1;

10070110 T 0006

TEMP[4]← VAR3;

10070130 T 0008

TEMP[3]← VAR2;

10070120 T 0010

ARITH ← VAR1 + VAR2 + VAR3 + TEMP[1]

10070140 T 0012

END;

10070150 T 0014

REAL PROCEDURE ARAY(A);

10070160 T 0017

REAL A ;

10070170 T 0017

BEGIN

10070180 T 0017

A ←6; ARAY ← 4;

10070190 T 0017

END;

10070200 T 0019

BOOLEAN PROCEDURE BOOL(B);

10070210 T 0022

VALUE B; BOOLEAN B ;

10070220 T 0022

BEGIN

10070225 T 0022

BOOL ← B

10070230 T 0022

END;

10070240 T 0023

REAL PROCEDURE STRNG(ONE,TWO);

10070250 T 0026

VALUE ONE,TWO;REAL ONE,TWO;

10070260 T 0026

BEGIN

10070265 T 0026

STRNG ← ONE + TWO;

10070270 T 0026

END ;

10070275 T 0028

I+1; J+15; K+14; L+3;

10070276 T 0030

TEMP[1] ← NOFORMALPARAMETERS;

10070280 T 0034

TEMP[5] ← ARITH(I+J, J × L, L + 56); TEMP[7] ← 6;

10070290 T 0036

TEMP[6] ← ARAY(TEMP[7]);

10070300 T 0042

TEMP[8] ← REAL (TEMP[3]=3);

10070310 T 0045

TEMP[9] ← STRNG(K)"STRING"(J);

10070320 T 0048

FILL ANS[*] WITH OCT1, OCT20, OCT55, OCT73, OCT171, OCT4,

10070330 T 0050

START OF SEGMENT ***** 21

OCT6, OCT0, OCT35;

10070340 T 0052

21 rS 9 LONG, NEXT SEG 20

CVN← 9; PNO ←7; VERIFY

10070350 T 0052

END;

10070360 T 0053

20 rS 59 LONG, NEXT SEG 10

PROCEDURE P9; COMMENT TRANSFER FUNCTIONS 3.3.5, KM. JUNE 10 63;

10090010 T 0126

BEGIN

10090020 T 0126

REAL X, Y, Z, C;

10090030 T 0126

START OF SEGMENT ***** 22

INTEGER H;

10090040 T 0000

BOOLEAN A, B, D;

10090050 T 0000

REAL PROCEDURE WHICHWASFORWARD(Q, R); REAL Q, R; FORWARD;

10090060 T 0000

REAL PROCEDURE CHECKTRANSFER(XX, YY);

10090070 T 0000

REAL XX, YY;

10090080 T 0000

BEGIN

10090090 T 0000

CHECKTRANSFER←XX DIV YY;

10090100 T 0000

END;

10090110 T 0001

BOOLEAN PROCEDURE CHECKREAL(F, G);

10090120 T 0003

BOOLEAN F, G;

10090130 T 0003

BEGIN

10090140 T 0003

CHECKREAL ← F AND G ;

10090150 T 0003

END;

10090160 T 0005

	REAL PROCEDURE WHICHWASFORWARD(Q,R);	10090161	T	0007
1	REAL Q,R;	10090162	T	0007
2	BEGIN	10090163	T	0007
3				
4	WHICHWASFORWARD + Q+R;	10090164	T	0007
5				
6	END;	10090165	T	0009
7				
8	TEMP[1]+5; TEMP[2]+6;	10090170	T	0011
9				
10	X+3.1; Y+2; H+7; Z+3.3; A+TRUE; B + FALSE;	10090180	T	0015
11				
12	COMMENT CHECKOUT OF ENTIER TRANSFER FUNCTION;	10090190	T	0020
13				
14	TEMP[3]+ ENTIER (X MOD Y);	10090200	T	0020
15				
16	TEMP[4]+ENTIER(CHECKTRANSFER(X,Y) + H.[46:1]);	10090210	T	0023
17				
18	TEMP[5]+ENTIER("2.999999999");	10090220	T	0028
19				
20	TEMP[6]+ENTIER(X);	10090230	T	0031
21				
22	TEMP[7]+ENTIER(-Z);	10090240	T	0033
23				
24	TEMP[8]+ENTIER(IF A THEN CHECKTRANSFER(5,7,"2.1) ELSE	10090250	T	0036
25				
26	"AB"+"A");	10090260	T	0049
27				
28	TEMP[9]+ENTIER(IF A THEN REAL(A) ELSE REAL(B));	10090270	T	0052
29				
30	TEMP[10]+ENTIER(IF A THEN WHICHWASFORWARD (2.1,3.2) ELSE	10090280	T	0056
31				
32	2.7);	10090290	T	0059
33				
34	TEMP[11]+ENTIER ((IF BOOLEAN(O) THEN REAL(A) ELSE IF A	10090300	T	0061
35				
36	THEN(IF BOOLEAN(H.[46:1]) THEN	10090310	T	0063
37				
38	REAL(BOOLEAN(IF A THEN 1 ELSE 2.4)) ELSE 5.4)	10090320	T	0065
39				
40	ELSE 1) +2.3);	10090330	T	0068
41				
42	COMMENT CHECKOUT OF REAL TRANSFER FUNCTION;	10090340	T	0071
43				
44	C+REAL(A EQV A); C+C.[47:1];TEMP[12]+ENTIER(C);	10090350	T	0071
45				
46	C+REAL(CHECKREAL(TRUE,BOOLEAN(O)) OR BOOLEAN(H.[47:1]));	10090360	T	0076
47				
48	TEMP[13] + ENTIER (C);	10090370	T	0090
49				
50	C + REAL (B); TEMP[14] + ENTIER(C);	10090380	T	0092
51				
52	C + REAL(IF A THEN A OR B ELSE A AND B); TEMP[15]+ENTIER(C);	10090390	T	0096
53				
54	C+REAL (IF A THEN BOOLEAN(H.[47:1]) ELSE BOOLEAN(H.[42:1]));	10090400	T	0102
55				
56	TEMP[16]+ENTIER(C);	10090410	T	0105
57				
	C + REAL(IF B THEN BOOLEAN(IF A THEN 2.5 ELSE X) ELSE	10090420	T	0108

(IF A THEN BOOLEAN(REAL(A)) ELSE B));

10090430 T 0111

TEMP[17]+ENTIER(C);

10090440 T 0113

COMMENT CHECK OUT OF BOOLEAN TRANSFER FUNC;

10090450 T 0116

D + BOOLEAN(Y DIV X); TEMP[18]+ENTIER(REAL(D));

10090460 T 0116

D + BOOLEAN(IF A THEN CHECKTRANSFER(6, 2) ELSE "A");

10090470 T 0120

TEMP[19]+ENTIER(REAL(D));

10090480 T 0123

D + BOOLEAN (IF B OR B THEN TEMP[1]+TEMP[2] ELSE

10090490 T 0126

REAL(BOOLEAN("A")));

10090500 T 0130

TEMP[20]+ENTIER(REAL(D));

10090510 T 0130

COMMENT GENERAL USE OF TRANSFER FUNCTIONS;

10090520 T 0133

TEMP[21]+ENTIER(REAL(BOOLEAN(REAL(BOOLEAN(REAL(BOOLEAN(5)))))));

10090530 T 0133

TEMP[22]+ENTIER((IF A THEN REAL(BOOLEAN(H)) ELSE REAL(BOOLEAN

10090540 T 0136

(-5))) + ENTIER(REAL(BOOLEAN(H))));

10090550 T 0138

FILL ANS[*] WITH OCT5, OCT6, OCT1, OCT2,

10090630 T 0142

START OF SEGMENT ***** 23

OCT2000000000000003, OCT3, OCT3,

10090640 T 0144

OCT2000000000000002, OCT1, OCT5, OCT3, OCT1, OCT1, OCT0,

10090650 T 0144

OCT1, OCT1, OCT1, OCT0, OCT3, OCT21, OCT5,

10090660 T 0144

OCT16;

10090670 T 0144

23 T S 22 LONG, NEXT SEG 22

CVN+22;

10090680 T 0144

PNO+9;

10090690 T 0144

VERIFY

10090700 T 0145

END;

10090710 T 0145

22 T S 152 LONG, NEXT SEG 10

PROCEDURE P10; COMMENT GEN. ARITHMETIC EXPRESSION, IF CLAUSE.

10100010 T 0126

3.4.3.2 DEC.11. KM. ;

10100020 T 0126

BEGIN

10100030 T 0126

BOOLEAN A,B;

10100040 T 0126

START OF SEGMENT ***** 24

INTEGER X,Y ;

10100050 T 0000

Data Documents/Inc.

	REAL P,Q ;	10100060 T 0000
1	REAL PROCEDURE GENARITH (X,Y,A);	10100070 T 0000
2		
3	REAL X,Y; BOOLEAN A;	10100080 T 0000
4		
5	BEGIN	10100090 T 0000
6		
7	GENARITH← IF A THEN X/Y ELSE X MOD Y;	10100100 T 0000
8		
9	END ;	10100110 T 0003
10		
11	INTEGER PROCEDURE GENERAL (X,Y,A);	10100120 T 0005
12		
13	INTEGER X,Y;	10100130 T 0005
14		
15	BOOLEAN A;	10100140 T 0005
16		
17	BEGIN	10100150 T 0005
18	GENERAL ← IF A THEN X.[46:2] ELSE (X+Y).[46:2]	10100160 T 0005
19		
20	END;	10100170 T 0009
21		
22	A← TRUE; B← FALSE; X←4; Y←66; P← 7/2; Q← 7/4;	10100180 T 0012
23		
24	TEMP[1] ← 5; TEMP[2] ← 7;	10100190 T 0018
25		
26	TEMP[3]← IF B THEN 7/5 ELSE (GENARITH(7,5,TRUE) +	10100200 T 0022
27		
28	GENERAL(5,7,FALSE)).[44:4];	10100210 T 0026
29		
30	TEMP[4]← IF A THEN "ABC" + "ABC" ELSE X.[47:1]+3 ;	10100220 T 0028
31		
32	TEMP[5]← IF A THEN = GENERAL(7,5,TRUE) ELSE = (P MOD Q MOD P);	10100230 T 0033
33		
34	TEMP[6]← IF A AND B THEN = "A" ELSE = "ABC" - "CDE";	10100240 T 0039
35		
36	TEMP[7] ← IF B THEN Q ELSE =(GENARITH(10,5,FALSE).[45:2]);	10100250 T 0044
37		
38	TEMP[8]←IF NOT A THEN (GENERAL(2,4,TRUE) MOD X.[45:3]) ELSE	10100260 T 0049
39		
40	("AB" MOD "A") + "B";	10100270 T 0053
41		
42	TEMP[9] ← IF B THEN P+Q ELSE (4 DIV 4) + X.[45:1] ;	10100280 T 0055
43		
44	TEMP[10]← IF B THEN X ELSE IF B THEN X ELSE IF B THEN X ELSE Y;	10100290 T 0060
45		
46	TEMP[11]←IF B THEN GENERAL(X,Y,A) ELSE IF B THEN	10100300 T 0066
47		
48	GENERAL (4,1,TRUE) MOD GENARITH (4,1,TRUE) ELSE	10100310 T 0070
49		
50		
51	IF A THEN GENARITH("ABC" , "ABC" , (A AND B)) ELSE	10100320 T 0074
52		
53	0;	10100330 T 0083
54		
55	TEMP[12]← IF A THEN TEMP[1] MOD TEMP[2] ELSE TEMP[1] × 5;	10100340 T 0084
56		
57	FILL ANS[*] WITH OCT5, OCT7, OCT6, OCT424446,	10100350 T 0090

OCT20000000000000003, OCT2000000000444650, OCT0,

10100360 T 0092

OCT23, OCT2, OCT102, OCT0, OCT5;

10100370 T 0092

25 1S 12 LONG, NEXT SEG 24

CVN+ 12;

10100390 T 0092

PNO+ 10;

10100400 T 0093

VERIFY

10100410 T 0094

END;

10100420 T 0094

24 1S 98 LONG, NEXT SEG 10

PROCEDURE P11;

10110010 T 0126

COMMENT 3.4.4.1,+ LEGITIMATE USE OF ";

10110020 T 0126

BEGIN

10110030 T 0126

REAL PROCEDURE FUNC; FUNC+4;

10110040 T 0126

START OF SEGMENT ***** 26

TEMP [1]++5;

10110050 T 0003

TEMP [2]++((+(+(+(+(+3))))));

10110060 T 0005

TEMP [3]++3+(+3);

10110070 T 0007

TEMP [4]++"";

10110080 T 0009

TEMP [5]++TEMP[1];

10110090 T 0011

TEMP [6]++TEMP[2],[40:7];

10110100 T 0014

TEMP [7]++FUNC;

10110110 T 0017

TEMP [8]++6+"13"+TEMP[7]+TEMP[3],[44:1]+FUNC;

10110120 T 0019

TEMP[9]++"+3"+"-6" ;

10110130 T 0025

FILL ANS[*] WITH OCT5, OCT3, OCT10, OCT77, OCT5, OCT1, OCT4,

10110140 T 0027

START OF SEGMENT ***** 27

OCT122, OCT7411 ;

10110150 T 0029

27 1S 9 LONG, NEXT SEG 26

CVN+ 9; PNO+11;

10110160 T 0029

VERIFY

10110170 T 0030

END;

10110180 T 0030

26 1S 34 LONG, NEXT SEG 10

Data Documents/Inc.

PROCEDURE P12; COMMENT THE ARITHMETIC OPERATOR (-);

10120010 T 0126

BEGIN

10120020 T 0126

REAL A,B;

10120030 T 0126

START OF SEGMENT ***** 28

A +15/4; B+386/4;

10120040 T 0000

TEMP[1]+ 4-2 ; TEMP [2] + 2-3 ; TEMP [3] + 4-2-1;

10120050 T 0002

TEMP[4] + A-B; TEMP [5] + B-A ;

10120060 T 0010

TEMP[6] + 152 ; TEMP [7] + 98; TEMP[8] + TEMP [6] - TEMP [7];

10120070 T 0014

TEMP[9]+A.[9:9]- (B+5).[9: 9];

10120080 T 0021

TEMP[10]+-11-(-4); TEMP[11]+-11-(-4)-5;

10120090 T 0025

TEMP[12]+ +A - (+B); TEMP[13] + -B-(-A);

10120100 T 0031

TEMP[14]+ - TEMP [6]- TEMP[7];

10120110 T 0036

TEMP[15]+ -A.[9:9]-B.[9:9];

10120120 T 0040

BEGIN

10120130 T 0044

INTEGER PROCEDURE CALC (DSUBD); COMMENT THIS PROCEDURE USED TO FORM

10120140 T 0044

START OF SEGMENT ***** 29

FUNCTION;

10120150 T 0000

INTEGER DSUBD;

10120160 T 0000

BEGIN CALC+ DSUBD END;

10120170 T 0000

TEMP [16]+ CALC (-7) -3; END;

10120180 T 0003

29 15 11 LONG, NEXT SEG 28

TEMP [17]+ -""-"A+B";

10120190 T 0045

FILL ANS[*] WITH OCT2, OCT2000000000000001, OCT1, OCT1010000000001442,

10120200 T 0047

START OF SEGMENT ***** 30

OCT3010000000001442, OCT230, OCT142, OCT66, OCT225,

10120210 T 0049

OCT2000000000000007, OCT2000000000000014, OCT1010000000001442,

10120220 T 0049

OCT1010000000001442, OCT20000000000000372, OCT2000000000000520,

10120230 T 0049

OCT2000000000000012, OCT2000000000212121 ;

10120240 T 0049

30 18 17 LONG, NEXT SEG 28

CVN +17;

10120250 T 0049

Data Documents/Inc.

PNO +12;

10120260 T 0050

1 VERIFY

10120270 T 0050

3 END;

10120280 T 0050

28 TS 55 LONG, NEXT SEG 10

7 PROCEDURE P13; COMMENT ARITH OPERATOR *

3.4.4.1;

10130010 T 0126

9 BEGIN

10130020 T 0126

11 INTEGER I0, I1, I2, I3, I4;

10130030 T 0126

13 START OF SEGMENT ***** 31

15 REAL R0, R1, R2, R3, R4, R5;

10130040 T 0000

17 ALPHA A0, A1;

10130050 T 0000

19 BOOLEAN B;

10130060 T 0000

21 INTEGER PROCEDURE X (K);

10130070 T 0000

23 INTEGER K;

10130080 T 0000

25 BEGIN

10130090 T 0000

27 X+K+7;

10130100 T 0000

29 END;

10130110 T 0001

31 REAL PROCEDURE Y(L);

10130120 T 0003

33 REAL L;

10130130 T 0003

35 Y+L+3.7+3.5;

10130150 T 0003

37 BEGIN

10130140 T 0010

39 END;

10130160 T 0011

41 I0+0; I1+1; I2+2; I3+549755813887; I4+1;

10130170 T 0011

43 TEMP[1]+I0*I0;

10130180 T 0015

45 TEMP[2]+I0*I2;

10130190 T 0017

47 TEMP[3]+I1*I2;

10130200 T 0019

49 TEMP[4]+I1*I4;

10130210 T 0021

51 TEMP[5]+I0*I4;

10130220 T 0024

53 TEMP[6]+I4*I4;

10130230 T 0026

55 TEMP[8]+I4*I3;

10130250 T 0028

57 TEMP[7]+I1*I3;

10130240 T 0030

TEMP[9]+I2*X(2);

10130260 T 0033

R0+0; R1+1; R2+2.2; R3+8@58; R4+1; R5+8@-20;

10130270 T 0035

TEMP[10]+R0*R2;

10130280 T 0040

COMMENT ***** THE CARD NO A013029 IS ORIGINAL. REMOVE A0130295 WHEN

10130285 T 0042

***** VALUE OF 8 @ 58 IS KNOWN

10130286 T 0042

TEMP[11]+R1*(R3+I3);

10130290 T 0042

TEMP[11]+ ((R1 * (R3 + I3)) - R3);

10130295 T 0042

TEMP[12]+R4*I3;

10130300 T 0046

COMMENT ***** CARD NO A013031 IS ORIGINAL REMOVE CARD NO A013031 WHEN

10130305 T 0048

***** VALUE FOR 8 @ -20 IS KNOWN

10130306 T 0048

TEMP[13]+R1*R5;

10130310 T 0048

TEMP[13]+ (R1 *R5) + (-R5);

10130315 T 0048

COMMENT ***** CARD NO A013032 IS ORIGINAL REMOVE CARD NO A0130325

10130316 T 0051

***** WHEN VALUE FOR 8 @ -20 IS KNOWN

10130317 T 0051

TEMP[14]+R4*R5;

10130320 T 0051

TEMP[14]+ (R4 * R5) + R5;

10130325 T 0051

COMMENT ***** CARD NO A013033 IS ORIGINAL REMOVE CARD NO A0130335

10130327 T 0054

***** WHEN VALUE FOR 8 @ 58 AND : @ -20 IS KNOWN

10130328 T 0054

TEMP[15]+R3*R5;

10130330 T 0054

TEMP[15]+ (R3* R5) - (R3* R5);

10130335 T 0054

TEMP[16]+R1*Y(6.8);

10130340 T 0057

A0+"0"; A1+"AA"; B+TRUE;

10130350 T 0060

TEMP[17]+3.14*"BB";

10130360 T 0062

TEMP[18]+I1*A1;

10130370 T 0064

TEMP[19]+R4*A1;

10130380 T 0066

TEMP[20]+2.7*(IF B THEN 7 ELSE -1.5);

10130390 T 0069

TEMP[21]+X(-5)*Y(0.8);

10130400 T 0073

TEMP[22]+*"BB"*A1;

10130410 T 0089

TEMP[23]+A0*A1;

10130420 T 0091

TEMP[24]+I1.[45:3] * I2.[43:3];

10130430 T 0093

TEMP[25]←A1.[42:6] × R1.[45:3];

10130440 T 0097

FILL ANS[*] WITH OCT0, OCT0, OCT2, OCT2000000000000001,

10130450 T 0100

START OF SEGMENT ***** 32

OCT0, OCT1, OCT0007777777777777, OCT2007777777777777,

10130460 T 0102

OCT22, OCT0, OCT0,

10130470 T 0102

OCT2007777777777777, OCT0,

10130480 T 0102

OCT0, OCT0, OCT16,

10130490 T 0102

OCT1117131631463146, OCT2121, OCT2000000000002121,

10130500 T 0102

OCT1132271463146315, OCT20, OCT4735062,

10130510 T 0102

OCT122006, OCT0, OCT21;

10130515 T 0102

32 rS 25 LONG, NEXT SEG 31

CVN←25;

10130520 T 0102

PNO←13;
VERIFY

10130530 T 0102

10130540 T 0103

END;

10130550 T 0103

31 rS 112 LONG, NEXT SEG 10

PROCEDURE P14; COMMENT ARITHMETIC OPERATOR / EK 7 NOV 62;

10140010 T 0126

BEGIN

10140020 T 0126

INTEGER J, K;

10140030 T 0126

START OF SEGMENT ***** 33

REAL A, B;

10140040 T 0000

ARRAY Y[1:3];

10140050 T 0000

REAL PROCEDURE PROD (A, B); REAL A, B;

10140060 T 0001

BEGIN

10140070 T 0001

PROD←A×B

10140080 T 0001

END;

10140090 T 0003

TEMP[1]←1023/2;

10140100 T 0006

TEMP[2]←1023/1023;

10140110 T 0009

TEMP[3]← -0/1;

10140120 T 0011

J← 2;

10140130 T 0014

K← 10;

10140140 T 0014

A+125;

10140150 T 0015

B+5;

10140160 T 0016

Y[1]+Y[2]+Y[3]+15;

10140170 T 0017

TEMP[5]+ "#KEHE"/"#KEHE";

10140180 T 0021

TEMP[6]+Y[2]/B;

10140190 T 0024

TEMP[7]+ K/J;

10140200 T 0027

TEMP[8]+A/B;

10140210 T 0029

TEMP[9]+K/B;

10140220 T 0031

TEMP[10]+PROD(A,B)/125;

10140230 T 0033

TEMP[11]+A*B/(20+B);

10140240 T 0036

TEMP[12]+A.[39:3]/1;

10140250 T 0040

FILL ANS[*] WITH OCT1010000000007774, OCT1,

10140255 T 0042

START OF SEGMENT ***** 34

OCT2000000000000000, OCT0, OCT1, OCT3,

10140260 T 0044

OCT5, OCT31, OCT2, OCT5, OCT31, OCT1;

10140270 T 0044

34 T,S 12 LONG, NEXT SEG 33

CVN+ 12;

10140280 T 0044

PNO+ 14;

10140290 T 0045

VERIFY

10140300 T 0046

END;

10140310 T 0046

33 T,S 53 LONG, NEXT SEG 10

PROCEDURE P15 ; COMMENT THE ARITHMETIC OPERATOR (DIV);

10150010 T 0126

BEGIN

10150020 T 0126

REAL A,B;

10150030 T 0126

START OF SEGMENT ***** 35

INTEGER C, D;

10150040 T 0000

INTEGER PROCEDURE CALCZ (DDIVD); COMMENT THE PROCEDURE USED TO FORM

10150050 T 0000

FUNCTION;

10150060 T 0000

INTEGER DDIVD;

10150070 T 0000

BEGIN INTEGER A;

10150080 T 0000

Data Documents/Inc.

A ← 25 DIV DDIVD ; CALCZ ← A; END; 10150090 T 0000

36 7S 5 LONG, NEXT SEG 35

A ← 137/5; B ← 69/5; C ← 89; D ← 89; 10150100 T 0000

TEMP[1] ← 270 DIV 9 ; TEMP[2] ← A DIV B; TEMP [3] ← CALCZ (5)DIV 10150110 T 0004

CALCZ (5); 10150120 T 0010

TEMP[4] ← "AB" DIV "A"; TEMP[5] ← C.[42:6] DIV D.[42:6]; 10150130 T 0011

TEMP[6] ← -270 DIV 9 ; TEMP[7] ← A DIV ("B"); TEMP[8] ← "CALCZ(25) 10150140 T 0017

DIV 1; 10150150 T 0023

TEMP[9] ← -"AB" DIV "A"; TEMP[10] ← C.[39:9] DIV D.[42:6]; 10150160 T 0025

TEMP[11] ← 270 DIV 9 DIV 3; TEMP[12] ← A DIV B DIV 4; 10150170 T 0031

TEMP[13] ← CALCZ(5)DIV CALCZ(5)DIV D.[42:6]; 10150180 T 0036

TEMP[15] ← D.[42:6] DIV 3 DIV A; 10150200 T 0040

TEMP[16] ← 15 DIV 25 DIV B ; TEMP[17] ← B DIV CALCZ (25) DIV A; 10150210 T 0044

TEMP[18] ← CALCZ(1) DIV 1 DIV A; TEMP[19] ← "AB" DIV C.[45:3]; 10150220 T 0049

TEMP[20] ← C.[42:6] DIV 5 DIV "A"; 10150230 T 0056

FILL ANSI[*] WITH OCT36, OCT1, OCT1, OCT101, OCT1, 10150240 T 0059

OCT2000000000000036, OCT2000000000000001, OCT2000000000000001, 10150250 T 0061

OCT20000000000000101, OCT3, OCT12, OCT0, OCT0, OCT0, OCT0, OCT0, 10150260 T 0061

OCT0, OCT0, OCT2122, OCT0; 10150270 T 0061

37 7S 20 LONG, NEXT SEG 35

CVN ← 20; 10150280 T 0061

PNO ← 15; 10150290 T 0061

VERIFY 10150300 T 0062

END; 10150310 T 0062

35 7S 67 LONG, NEXT SEG 10

PROCEDURE P16; COMMENT ARITH OPERATOR MOD 3.4.4.1; 10160010 T 0126

BEGIN 10160020 T 0126

INTEGER 10, 11, 12, 13, 14, 15; 10160030 T 0126

Data Documents/Inc.

	REAL R0,R1,R2,R3,R4,R5;	10160040 T 0000
1	INTEGER PROCEDURE Z(X,Y);	10160050 T 0000
2		
3	INTEGER X,Y;	10160060 T 0000
4		
5	BEGIN	10160070 T 0000
6		
7	Z+X+Y;	10160080 T 0000
8		
9	END;	10160090 T 0001
10		
11	I0+0; I1+1; I2+2; I3+17; I4+-2; I5+-8;	10160100 T 0003
12		
13	TEMP[1]+I0 MOD I1;	10160110 T 0009
14		
15	TEMP[2]+I3 MOD I2;	10160120 T 0011
16		
17	TEMP[3]++3 MOD I1;	10160130 T 0013
18		
19	TEMP[4]+I5 MOD I2;	10160140 T 0015
20		
21	TEMP[5]+I5 MOD I4;	10160150 T 0018
22		
23	TEMP [6]+I3 MOD I4;	10160160 T 0020
24		
25	R0+0; R1+1; R2+2.2; R3+8.9; R4+2;	10160170 T 0022
26		
27	TEMP[7]+R0 MOD R1;	10160180 T 0026
28		
29	TEMP[8]+R3 MOD R2;	10160190 T 0028
30		
31	TEMP[9]+R3 MOD R1;	10160200 T 0030
32		
33	TEMP[10]+I5 MOD R2;	10160210 T 0033
34		
35	TEMP[11]+I5 MOD (I1 + I2 + R2);	10160220 T 0035
36		
37	TEMP[12]+ "A" MOD 4;	10160230 T 0038
38		
39	TEMP[13]+37 MOD (IF R2 = 2.2 THEN 6 ELSE 3);	10160240 T 0040
40		
41	TEMP[14]+48.5 MOD Z(3,3);	10160250 T 0045
42		
43	TEMP[15]+ I3.[42:6] MOD I2.[45:3];	10160260 T 0048
44		
45	COMMENT ***** VALUES IN THE ANS ARRAY WERE MODIFIED TO ACCOUNT	10160270 T 0051
46		
47	***** FOR THE DEVIATION OF THE CONVERT ROUTINE	10160271 T 0051
48		
49	***** TEMP[8] = 1150631463146340	10160272 T 0051
50		
51	ANS[8] = 1150631463146314	10160273 T 0051
52		
53		
54		10160274 T 0051
55		
56	TEMP[9] = 1157146314631500	10160275 T 0051
57		
	ANS[9] = 1157146314631463	10160276 T 0051

```

TEMP[10]= 3141314631463147
ANS[10] = 3141314631463146
TEMP[11]= 3142631463146315
ANS[11] = 3142631463146314
FILL ANS[*] WITH OCT0, OCT1, OCT0, OCT0, OCT0,
OCT1, OCT0, OCT1150631463146340,
OCT1157146314631500, OCT3141314631463147,
OCT3142631463146315, OCT1, OCT1, OCT115400000000000, OCT1;
CVN+15;
PND+16;
VERIFY;
END;
PROCEDURE P17; COMMENT ARITHMETIC OPERATOR * EK 7 NOV 63;
BEGIN
INTEGER J,K;
REAL Y,Z,W;
ARRAY X[1:3];
INTEGER PROCEDURE SUM (J,K);
INTEGER J,K;
BEGIN
SUM+ J+K
END;
W+ 10.0*2;
J+2;

```

```

10160277 T 0051
10160278 T 0051
10160279 T 0051
10160280 T 0051
10160281 T 0051
10160282 T 0051
10160285 T 0051
START OF SEGMENT ***** 39
10160290 T 0053
10160300 T 0053
10160310 T 0053
39 T S 15 LONG, NEXT SEG 38
10160330 T 0053
10160340 T 0053
10160350 T 0054
10160360 T 0055
38 T S 63 LONG, NEXT SEG 10
10170010 T 0126
10170020 T 0126
10170030 T 0126
START OF SEGMENT ***** 40
10170040 T 0000
10170050 T 0000
10170060 T 0001
10170065 T 0001
10170070 T 0001
10170080 T 0001
10170090 T 0003
10170091 T 0006
10170100 T 0008

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Data Documents/Inc.

Data Documents/Inc.

K ← 4;	10170110 T 0009
Y ← 10.0;	10170120 T 0009
Z ← 0.2×1;	10170130 T 0010
X[1]+X[2]+ X[3]← 3.0;	10170140 T 0011
TEMP[1]← 2*2;	10170150 T 0016
TEMP[2]← J*K;	10170160 T 0018
TEMP[3]← (J/4)*J;	10170170 T 0022
TEMP[4]← 0*K;	10170180 T 0026
TEMP[5]← 0*J;	10170190 T 0030
TEMP[6]← Y*0;	10170200 T 0034
TEMP[7]← Z*(-0);	10170210 T 0036
TEMP[8]← (W/Y)*(-J);	10170220 T 0039
TEMP[9]← (Y-Y)*2.5;	10170230 T 0044
TEMP[10]← Y*2.0;	10170240 T 0048
TEMP[11]← (K-J)*(J×1.5);	10170250 T 0052
TEMP[12]← (K/Y)+0.0;	10170260 T 0056
TEMP[13]← (-1.5)*(0);	10170270 T 0059
TEMP[14]← (Y×Y) *(-J);	10170280 T 0062
TEMP[15]← X[1]* X[2];	10170290 T 0066
TEMP[16]← X[3] * SUM(J,K);	10170300 T 0071
TEMP[17]← X[2]*J,[47:1];	10170310 T 0077
TEMP[18]← 1*"000000";	10170320 T 0082

COMMENT THE FOLLOWING ANSWERS WERE MODIFIED TO OBTAIN A CLEAN LISTING

***** CONSTRUCT	ANS SHOULD BE	ANS IS	10170323 T 0084
***** (4-2) *(2×1.5)	OCT 10	OCT10.000000000002	10170325 T 0084
*** 3*3	OCT 33	OCT33.000000000004	10170327 T 0084
FILL ANS[*] WITH	OCT4, OCT20, OCT1010000000000002, OCT0,		10170330 T 0084

START OF SEGMENT ***** 41

OCT2000000000000000, OCT1, OCT1,	10170340 T 0086
OCT1010000000000002, OCT0, OCT144, OCT113100000000002,	10170350 T 0086
OCT1, OCT1, OCT1213215561353071, OCT1133300000000004,	10170355 T 0086

OCT1331, OCT1, OCT1;

10170357 T 0086

41 rS 18 LONG, NEXT SEG 40

CVN+ 18;

10170360 T 0086

PNO+ 17;

10170370 T 0086

VERIFY

10170380 T 0087

END;

10170390 T 0087

40 rS 99 LONG, NEXT SEG 10

PROCEDURE P18; COMMENT ARITHMETIC EXPRESSIONS WITH MIXED TYPES;

10180010 T 0126

BEGIN

10180020 T 0126

TEMP[1]+(-57)*23; TEMP[2]+ 27+13.27*3; TEMP[3]+ 27* 13.27*3;

10180030 T 0126

TEMP[4]+2.7*3 *3.4*4; TEMP[5]+2.7*3+3.4*4;

10180040 T 0134

TEMP[6]+7/4; TEMP[7]+9/2.3;TEMP[8]+2.3/2;TEMP[9]+27.3*2/27.3*1;

10180050 T 0140

TEMP[10]+8 MOD 9; TEMP[11]+ (-8)MOD 1.6; TEMP [12]+7.5 MOD(-3);

10180070 T 0149

TEMP[13]+1.5MOD 0.7;

10180080 T 0157

FILL ANS[*] WITH OCT2000000000002437, OCT1121026365605076,

10180090 T 0159

START OF SEGMENT ***** 42

OCT1112062675341220, OCT1121561217270244,

10180100 T 0161

OCT1132554631463146, OCT1141600000000000,

10180110 T 0161

OCT1143723364675157, OCT1141114631463147,

10180120 T 0161

OCT1151463146314632, OCT10,

10180130 T 0161

OCT3141463146314630, OCT1141400000000000,

10180135 T 0161

OCT1150631463146314;

10180137 T 0161

42 rS 13 LONG, NEXT SEG 10

CVN+13;

10180140 T 0161

PNO+18;

10180150 T 0162

VERIFY

10180160 T 0162

END;

10180170 T 0162

PROCEDURE P19; COMMENT PRECEDENCE OF ARITHMETIC OPERATORS 3,4,5;

10190010 T 0174

BEGIN

10190020 T 0174

INTEGER I1, I2, I3, I4, I5, I10, IX, IY;

10190030 T 0174

1	REAL R0,R1,R2,R3,R4,R5,R6;	10190040 T 0000
2		
3	ALPHA A1,A2;	10190050 T 0000
4		
5	INTEGER PROCEDURE X(G,H,IX);	10190060 T 0000
6		
7	VALUE G,H,IX;	10190070 T 0000
8		
9	INTEGER G,H,IX;	10190080 T 0000
10		
11	BEGIN	10190090 T 0000
12		
13	H+6;	10190100 T 0000
14		
15	IX+3;	10190110 T 0000
16		
17	X+G;	10190120 T 0001
18		
19	END;	10190130 T 0002
20		
21	INTEGER PROCEDURE Y(J,IY);	10190140 T 0004
22		
23	VALUE J, IY;	10190145 T 0004
24		
25	INTEGER J,IY;	10190150 T 0004
26		
27	BEGIN	10190160 T 0004
28		
29	Y+J+IY+2;	10190170 T 0004
30		
31	END;	10190180 T 0006
32		
33	REAL PROCEDURE Z(K,L,M,R0,R1,R2,R3);	10190190 T 0009
34		
35	VALUE K,L,M,R0,R1,R2,R3;	10190195 T 0009
36		
37	INTEGER K;	10190200 T 0009
38		
39	REAL L,M,R0,R1,R2,R3;	10190210 T 0009
40		
41	BEGIN	10190220 T 0009
42		
43	R0+K+L;	10190230 T 0009
44		
45	R1+K=L;	10190240 T 0011
46		
47	R2+K/L;	10190250 T 0012
48		
49	R3+K×L;	10190260 T 0013
50		
51	Z+M;	10190270 T 0015
52		
53	END;	10190280 T 0015
54		
55	I1+1; I2+2; I3+3; I4+4; I5+5; I10+10; IX+0; IY+0;	10190290 T 0018
56	TEMP[1]+I1 + I2×I3 * I4 -(I10 DIV I5);	10190300 T 0025
57	TEMP[2]+I1 + I2×I3 * (I4 - I10 DIV I5);	10190310 T 0030

Data Documents/Inc.

	TEMP[3]+I1 + I2*(I3 * I4 - I10 DIV I5);	10190320 T 0036
1	TEMP[4]+I1 + (I2 * I3 * I4 - I10 DIV I5);	10190330 T 0042
2	TEMP[5]+(I1 + I2 * I3 * I4 - I10 DIV I5);	10190340 T 0048
3	TEMP[6]+(I1 + I2 * I3 * I4 - I10) DIV I5;	10190350 T 0053
4	TEMP[7]+ (I1+I2*I3*3)-I10 DIV I5;	10190360 T 0059
5	TEMP[8]+(I1 + I2*I3) * I4 - I10 DIV I5;	10190370 T 0064
6	TEMP[9]+(I1 + I2) * I3 * I4 - I10 DIV I5;	10190380 T 0070
7	TEMP[10]+I1 + I2*I3 * I4 - I10 DIV I5;	10190390 T 0075
8	TEMP[11]+I1 + I2 * I3 * (I10 - I4) DIV I5;	10190400 T 0081
9	TEMP[12]+I1 + (I2 * I3) * I4 - I10 DIV I5;	10190410 T 0087
10	TEMP[13]+I10 * I1 +I2 MOD X(I1, I2, I3)*IY+Y(I1,I2)*I1-I2 DIV	10190420 T 0093
11	I5=I1+I3;	10190425 T 0102
12	TEMP[14]+(I10*I1+I2 MOD X(I1, I2, I3)*Y(I4, I5)+I4-I10 DIV	10190430 T 0104
13	I5=I1+I3);	10190435 T 0111
14	TEMP[15]+I10*I1+I2 MOD X(I1, I2, I3)*Y(I4, I5)+I4-I10 DIV	10190440 T 0114
15	(I5=I1+I3);	10190445 T 0122
16	R0+0; R1+0; R2+0; R3+0; R4+1; R5+549755813887; R6+2; A2+"A";	10190450 T 0125
17	TEMP[16]+I3+I3*I2;	10190460 T 0131
18	TEMP[17]+I3*I4-I2;	10190470 T 0134
19	TEMP[18]+I3*(I4-I2);	10190480 T 0137
20	TEMP[19]+I4/I2+I3*I2;	10190490 T 0139
21	TEMP[20]+I5 MOD I2 + I3;	10190500 T 0143
22	TEMP[21]+I3 DIV I2 MOD I2;	10190510 T 0145
23	TEMP[22]+I3-R6*R4;	10190520 T 0148
24	TEMP[23]+R4+I5-R6*9 MOD 4;	10190530 T 0151
25	TEMP[24]+(R0-R2+R3*Z(4,2,R0,R1,R2,R3,R4))/(R2+6);	10190540 T 0155
26	TEMP[25]+22+(IF I1=0 THEN I2*R5 ELSE A2);	10190550 T 0161
27	A1+"AA";	10190560 T 0166
28	TEMP[26]+ "AA"+R5 MOD 7+1;	10190570 T 0166
29	TEMP[27]+A1+R5 DIV (7+1)=68719476733;	10190580 T 0170

TEMP[28]+Z(1,2,R0,R1,R2,R3,R4)XR6;

10190590 T 0173

TEMP[29]+Z(6,3,R1,R2,R3,R4,R5)XR2+R3-R0XR3;

10190600 T 0178

TEMP[30]+(4X8-3+4.5+2.5)/9;

10190610 T 0183

COMMENT ANSWERS AND OUTPUT;

10190620 T 0188

FILL ANS[*] WITH OCT241, OCT23, OCT237,

10190630 T 0188

START OF SEGMENT ***** 44

OCT241, OCT241, OCT36,

10190640 T 0189

OCT65, OCT4537, OCT361,

10190650 T 0189

OCT241, OCT444, OCT2421,

10190660 T 0189

OCT14, OCT12, OCT11,

10190670 T 0189

OCT11, OCT12, OCT6,

10190680 T 0189

OCT10, OCT4, OCT1,

10190690 T 0189

OCT1, OCT6, OCT0,

10190700 T 0189

OCT47, OCT2122, OCT2123,

10190710 T 0189

OCT0, OCT0, OCT4;

10190720 T 0189

44 T S 30 LONG, NEXT SEG 43

CVN+30;

10190730 T 0189

PNO+19;

10190740 T 0190

VERIFY

10190750 T 0191

END;

10190760 T 0191

43 T S 203 LONG, NEXT SEG 10

PROCEDURE P21; COMMENT BOOLEAN EXPRESSION USING IF CLAUSE ;

10210010 T 0174

BEGIN

10210020 T 0174

BOOLEAN A,B,C,D,E;

10210030 T 0174

START OF SEGMENT ***** 45

INTEGER H,J;

10210040 T 0000

BOOLEAN PROCEDURE BOOL (BLSUBBL,A,B);

10210050 T 0000

BOOLEAN BLSUBBL,A,B;

10210060 T 0000

BEGIN BOOL+ A OR B OR NOT BLSUBBL END;

10210070 T 0000

BOOLEAN PROCEDURE SECBOOL(BSUBBL,A,B);

10210080 T 0004

BOOLEAN BSUBBL,A,B;

10210090 T 0004

	BEGIN SECBOOL ← A OR NOT B SUBBL END;	10210100 T	0004
1	B ← FALSE; A ← TRUE; H ← 14; J ← 14; C ← FALSE; D ← FALSE; E ← TRUE;	10210110 T	0008
2			
3	A ← IF H = J THEN TRUE ELSE FALSE; TEMP[1] ← REAL(A, [47:1]);	10210120 T	0014
4			
5	A ← IF TRUE THEN A ELSE B; TEMP[2] ← REAL(A, [47:1]); A ← TRUE;	10210130 T	0019
6			
7	A ← IF A THEN BOOL(B, A, B) ELSE IF B THEN C ELSE D;	10210140 T	0024
8			
9	TEMP[3] ← REAL(A, [47:1]); H ← H + J;	10210150 T	0029
10			
11	A ← IF H ≠ J THEN H + J > H - J ELSE A; TEMP[4] ← REAL(A, [47:1]);	10210160 T	0032
12			
13	A ← IF H ≠ J THEN (IF J ≥ H THEN A ELSE B) ELSE IF C THEN A ELSE D;	10210170 T	0039
14			
15	TEMP[5] ← REAL(A, [47:1]);	10210180 T	0045
16			
17	A ← IF A THEN TRUE EQV FALSE ELSE TRUE; TEMP[6] ← REAL(A, [47:1]);	10210190 T	0047
18			
19	A ← IF A THEN H = J ELSE B; TEMP[7] ← REAL(A, [47:1]);	10210200 T	0052
20			
21	A ← IF H ≠ J THEN BOOL(B, A, B) EQV SECBOOL(B, A, B) ELSE C;	10210210 T	0057
22			
23	TEMP[8] ← REAL(A, [47:1]);	10210220 T	0063
24			
25	A ← IF B THEN (H + J) = (H + J) ELSE IF H + J > H - J THEN A ELSE B;	10210230 T	0065
26			
27	TEMP[9] ← REAL(A, [47:1]);	10210240 T	0072
28			
29	A ← IF A THEN (IF H = J THEN C ELSE A) EQV (H > J) ELSE B;	10210250 T	0074
30			
31	TEMP[10] ← REAL(A, [47:1]);	10210260 T	0079
32			
33	A ← IF A THEN C OR D ELSE E; TEMP[11] ← REAL(A, [47:1]);	10210270 T	0081
34			
35	A ← IF B EQV A THEN BOOL(B, A, B) OR SECBOOL(B, A, B) ELSE C;	10210280 T	0086
36			
37	TEMP[12] ← REAL(A, [47:1]);	10210290 T	0092
38			
39	A ← IF B THEN H > J OR J > H ELSE IF C THEN D ELSE A;	10210300 T	0094
40			
41	TEMP[13] ← REAL(A, [47:1]);	10210310 T	0099
42			
43	A ← IF A THEN ((IF A OR B THEN C ELSE A) OR (A AND B)) ELSE E;	10210320 T	0101
44			
45	TEMP[14] ← REAL(A, [47:1]);	10210330 T	0107
46			
47			
48	A ← IF B THEN BOOL(B, A, B) AND SECBOOL(B, A, B) ELSE A AND B;	10210340 T	0109
49			
50	TEMP[15] ← REAL(A, [47:1]);	10210350 T	0114
51			
52	A ← IF H ≠ J THEN (IF A OR B THEN C ELSE A) AND (B OR D) ELSE E;	10210360 T	0116
53			
54	TEMP[16] ← REAL(A, [47:1]); A ← TRUE;	10210370 T	0121
55			
56	A ← IF A OR B THEN NOT B ELSE E; TEMP[17] ← REAL(A, [47:1]);	10210380 T	0125
57	A ← TRUE;	10210390 T	0130

A← IF A THEN A EQV B AND NOT C ELSE IF C THEN A ELSE C ;	10210400 T 0131
TEMP[18]← REAL(A,[47:1]);	10210410 T 0136
A← IF A THEN H,[45:3] > J,[42:6] ELSE E;	10210420 T 0138
TEMP[19]←REAL(A,[47:1]);	10210420 T 0142
A← IF A THEN (IF H,[45:3] > (J,[42:6] = H,[45:3]) THEN C	10210430 T 0144
ELSE A) OR NOT (A OR B) ELSE A; TEMP[20]←REAL(A,[47:1]);	10210440 T 0148
FILL ANS[*] WITH OCT1, OCT1, OCT1, OCT1, OCT0, OCT1,	10210450 T 0154
	START OF SEGMENT ***** 46
OCT0, OCT1, OCT1, OCT1, OCT0, OCT1, OCT1,	10210460 T 0156
OCT0, OCT0, OCT0, OCT1, OCT0, OCT1, OCT1;	10210470 T 0156
	46 T S 20 LONG, NEXT SEG 45
CVN + 20;	10210480 T 0156
PND + 21;	10210490 T 0157
VERIFY	10210500 T 0157
END;	10210510 T 0157
	45 T S 162 LONG, NEXT SEG 10
PROCEDURE P22; COMMENT RELATIONAL OPERATOR <	3.5.5.1; 10220010 T 0174
BEGIN	10220020 T 0174
INTEGER IO, I1, IN1, I2, IN2, IMAX, IMIN;	10220030 T 0174
	START OF SEGMENT ***** 47
INTEGER PROCEDURE X(K);	10220040 T 0000
INTEGER K;	10220050 T 0000
BEGIN	10220060 T 0000
X←K+2;	10220070 T 0000
END;	10220080 T 0001
REAL PROCEDURE Y(L);	10220090 T 0003
REAL L;	10220100 T 0003
BEGIN	10220110 T 0003
Y←L+3.6;	10220120 T 0003
END;	10220130 T 0005
IO←0; I1←1; IN1←-1; I2←2; IN2←-2;	10220140 T 0008

IMAX+549755813887; IMIN+-549755813887; 10220150 T 0013

TEMP[1]+IF 0.0 < 1.0 THEN 1 ELSE 0; 10220160 T 0015

TEMP[2]+IF -1.0 < 10 THEN 1 ELSE 0; 10220170 T 0018

TEMP[3]+ IF 4.314@63 < X(1) THEN 1 ELSE 0; 10220180 T 0022

TEMP[4]+ IF 4.314@63 < 10.[47:1] THEN 1 ELSE 0; 10220190 T 0027

TEMP[5]+IF 1.75@46 < " " THEN 1 ELSE 0; 10220200 T 0031

TEMP[6]+IF -1.75e-30 < I1 THEN 1 ELSE 0; 10220210 T 0035

TEMP[7]+IF I1 < IN1 THEN 1 ELSE 0; 10220220 T 0039

TEMP[8]+IF I2 < Y(-3,0) THEN 1 ELSE 0; 10220230 T 0042

TEMP[9]+IF IN2 < 10.[9:39] THEN 1 ELSE 0; 10220240 T 0056

TEMP[10]+IF IMAX < " " THEN 1 ELSE 0; 10220250 T 0060

TEMP[11]+IF IMIN < (2*8) THEN 1 ELSE 0; 10220260 T 0064

TEMP[12]+IF X(1) < Y(2,4) THEN 1 ELSE 0; 10220270 T 0068

TEMP[13]+IF X(2) < I1.[45:3] THEN 1 ELSE 0; 10220280 T 0073

TEMP[14]+IF Y(3,4) < "0" THEN 1 ELSE 0; 10220290 T 0078

TEMP[15]+IF Y(1) < (10/5) THEN 1 ELSE 0; 10220300 T 0082

TEMP[16]+ IF I2.[42:6] < IMAX.[1:3] THEN 1 ELSE 0; 10220310 T 0087

TEMP[17]+ IF IMAX.[45:3] < "" THEN 1 ELSE 0; 10220320 T 0092

TEMP[18]+IF IMAX.[9:39] < (9 DIV 2) THEN 1 ELSE 0; 10220330 T 0096

TEMP[19]+IF "AA" < "ZZ" THEN 1 ELSE 0; 10220340 T 0101

TEMP[20]+IF "MMM" < (100 MOD 51) THEN 1 ELSE 0; 10220350 T 0104

TEMP[21]+IF (12 +5) < (47 - 18) THEN 1 ELSE 0; 10220360 T 0109

COMMENT ANSWERS AND OUTPUT; 10220370 T 0113

FILL ANS[*] WITH OCT1, OCT1, OCT0, 10220380 T 0113

START OF SEGMENT ***** 48

OCT0,OCT0, OCT1, 10220390 T 0115

OCT0,OCT0, OCT1, 10220400 T 0115

OCT0, OCT1, OCT1, 10220410 T 0115

OCT0, OCT0, OCT0, 10220420 T 0115

OCT0, OCT1, OCT0, 10220430 T 0115

OCT1, OCT0, OCT1; 10220440 T 0115

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CVN+21; 10220450 T 0115

PNO+22; 10220460 T 0116

VERIFY 10220470 T 0117

END; 10220480 T 0117

PROCEDURE P23; COMMENT THE RELATIONAL OPERATOR (S); 10230010 T 0174

BEGIN 10230020 T 0174

BOOLEAN A,B,C; 10230030 T 0174

INTEGER H,J,K; 10230040 T 0000

A+ TRUE; B+FALSE; H+15; J+ 15; K+ 30; C+TRUE; 10230050 T 0000

A+IF A THEN HSJ ELSE B; TEMP[1] + REAL (A,[47:1]); 10230060 T 0004

A+ IF A THEN H ≤ J EQV H ≤ J ELSE B; TEMP[2]+ REAL(A,[47:1]); 10230070 T 0009

A+HSJ; TEMP[3] + REAL (A,[47:1]); 10230080 T 0015

A+HSJ EQV HSJ; TEMP[4]+REAL(A,[47:1]); 10230090 T 0019

A+ IF A THEN H+ JS K OR HSJ ELSE C; TEMP[5] + REAL(A,[47:1]); 10230100 T 0023

A+ IF B THEN A ELSE H=JSK; TEMP[6]+REAL(A,[47:1]); 10230110 T 0030

A+H+JSK OR HSJ; TEMP[7]+REAL(A,[47:1]); 10230120 T 0035

A+ IF A THEN H≠J AND HSJ ELSE C; TEMP[8]+REAL(A,[47:1]); 10230130 T 0040

A+H+K≤J AND HSK; TEMP[9]+REAL(A,[47:1]); 10230140 T 0046

A+ IF A THEN NOT H ≤ K ELSE NOT B; TEMP[10]+ REAL(A,[47:1]); 10230150 T 0051

A+ NOT HSJ; TEMP[11]+REAL(A,[47:1]); 10230160 T 0056

FILL ANS[*] WITH OCT1, OCT1, OCT1, OCT1, OCT1, OCT1, OCT1, 10230170 T 0060

OCT0, OCT0, OCT1, OCT0; 10230180 T 0062

CVN+11; 10230200 T 0062

PNO+23; 10230200 T 0062

VERIFY END; 10230210 T 0063

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PROCEDURE P24; COMMENT THE RELATIONAL OPERATOR (=);

10240010 T 0174

1 BEGIN

10240020 T 0174

2
3 BOOLEAN A,B,C;

10240030 T 0174

4
5 START OF SEGMENT ***** 51

6
7 INTEGER H,J,K;

10240040 T 0000

8 A ← TRUE; B ← FALSE; H ← 15; J ← 15; K ← 30; C ← TRUE;

10240050 T 0000

9
10 A ← IF A THEN H=J ELSE B; TEMP [1] ← REAL (A.[47:1]);

10240060 T 0004

11
12 A ← IF A THEN H=J EQV H=J ELSE B;

10240070 T 0009

13
14 TEMP[2] ← REAL(A.[47:1]);

10240080 T 0013

15
16 A ← H=J; TEMP [3] ← REAL(A);

10240090 T 0015

17
18 A ← H=J EQV H=J; TEMP[4] ← REAL (A.[47:1]);

10240100 T 0018

19
20 A ← IF A THEN H+4=5 OR H=J ELSE B ;

10240110 T 0023

21
22 TEMP[5] ← REAL (A.[47:1]);

10240120 T 0027

23
24 A ← IF B THEN A ELSE H+4=4 ; TEMP [6] ← REAL (A);

10240130 T 0029

25
26 A ← H+J=K OR H=J ; TEMP [7] ← REAL(A);

10240140 T 0034

27
28 A ← IF A THEN H=J AND H=K ELSE C;

10240150 T 0039

29
30 TEMP[8] ← REAL(A.[47:1]);

10240160 T 0042

31
32 A ← H+J=K AND H=J ; TEMP [9] ← REAL(A.[47:1]);

10240170 T 0045

33
34 A ← IF A THEN NOT H=K ELSE B; TEMP[10] ← REAL(A.[47:1]);

10240180 T 0050

35
36 A ← NOT H=J; TEMP[11] ← REAL(A.[47:1]);

10240190 T 0055

37
38
39
40
41
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43
44
45
46
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48
49
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52
53
54
55
56
57
FILL ANS[*J WITH OCT1, OCT1, OCT1, OCT1, OCT1, OCT0, OCT1,

10240200 T 0058

START OF SEGMENT ***** 52

OCT0, OCT1, OCT1, OCT0;

10240210 T 0060

52 IS 11 LONG, NEXT SEG 51

CVN ← 11;

10240230 T 0060

PND ← 24;

10240240 T 0061

VERIFY

10240250 T 0061

END;

10240260 T 0061

51 IS 66 LONG, NEXT SEG 10

PROCEDURE P25; COMMENT RELATIONAL OPERATOR ≥

3,5,5,1;

10250010 T 0174

BEGIN

10250020 T 0174

INTEGER IO, I1, IN1, I2, IN2, IMAX, IMIN;

10250030 T 0174

START OF SEGMENT ***** 53

INTEGER PROCEDURE X(K);

10250040 T 0000

INTEGER K;

10250050 T 0000

BEGIN

10250060 T 0000

X←K+2;

10250070 T 0000

END;

10250080 T 0001

REAL PROCEDURE Y(L);

10250090 T 0003

REAL L;

10250100 T 0003

BEGIN

10250110 T 0003

Y←L+3.6;

10250120 T 0003

END;

10250130 T 0005

IO←0; I1←1; I2←2; IN2←-2;

10250140 T 0008

IMAX←549755813887; IMIN←-549755813887;

10250150 T 0012

TEMP[1]←IF 0.0 ≥ 1.0 THEN 1 ELSE 0;

10250160 T 0014

TEMP[2]←IF -1.0 ≥ IO THEN 1 ELSE 0;

10250170 T 0017

TEMP[3]←IF 4.314063 ≥ X(1) THEN 1 ELSE 0;

10250180 T 0021

TEMP[4]←IF -4.314063 ≥ IO.[47:1] THEN 1 ELSE 0;

10250190 T 0026

TEMP[5]←IF -1.750-30 ≥ " " THEN 1 ELSE 0;

10250200 T 0030

TEMP[6]←IF 1.750-30 ≥ IO THEN 0 ELSE 1;

10250210 T 0034

TEMP[7]←IF I1 ≥ IN1 THEN 1 ELSE 0;

10250220 T 0038

TEMP[8]←IF I2 ≥ Y(-3.0) THEN 1 ELSE 0;

10250230 T 0042

TEMP[9]←IF IN2 ≥ IO.[9:39] THEN 1 ELSE 0;

10250240 T 0054

TEMP[10]←IF IMAX ≥ " " THEN 1 ELSE 0;

10250250 T 0058

TEMP[11]←IF IMIN ≥ (2 × 8) THEN 1 ELSE 0;

10250260 T 0062

TEMP[12]←IF X(3) ≥ Y(1.4) THEN 1 ELSE 0;

10250270 T 0066

TEMP[13]←IF X(2) ≥ I1.[43:3] THEN 1 ELSE 0;

10250280 T 0071

TEMP[14]←IF Y(3.4) ≥ "0" THEN 1 ELSE 0;

10250290 T 0076

TEMP[15]←IF Y(-1.6) ≥ (10/5) THEN 1 ELSE 0;

10250300 T 0080

TEMP[16]←IF I2.[42:6] ≥ IMAX.[11:3] THEN 1 ELSE 0;

10250310 T 0093

TEMP[17]←IF IMAX.[45:3] ≥ "" THEN 1 ELSE 0;

10250320 T 0098

TEMP[18]+ IF IMAX.[9:39] ≥ (9DIV 2) THEN 1 ELSE 0;

10250330 T 0102

TEMP[19]+IF "AA" ≥ "ZZ" THEN 1 ELSE 0;

10250340 T 0107

TEMP[20]+IF "MMM" ≥ (100 MOD 51) THEN 1 ELSE 0;

10250350 T 0110

TEMP[21]+IF (12+5) ≥ (47-30) THEN 1 ELSE 0;

10250360 T 0115

COMMENT ANSWERS AND OUTPUT;

10250370 T 0119

FILL ANS[*] WITH OCT0, OCT0, OCT1,

10250380 T 0119

START OF SEGMENT ***** 54

OCT0, OCT0, OCT0,

10250390 T 0121

OCT1, OCT1, OCT0,

10250400 T 0121

OCT1, OCT0, OCT1,

10250410 T 0121

OCT1, OCT1, OCT1,

10250420 T 0121

OCT1, OCT0, OCT1,

10250430 T 0121

OCT0, OCT1, OCT1;

10250440 T 0121

54 T S 21 LONG, NEXT SEG 53

CVN+21;

10250450 T 0121

PN0+25;

10250460 T 0122

VERIFY;

10250470 T 0123

END;

10250480 T 0123

53 T S 130 LONG, NEXT SEG 10

PROCEDURE P26; COMMENT THE RELATIONAL OPERATOR (>);

10260010 T 0174

BEGIN

10260020 T 0174

BOOLEAN A>B,C;

10260030 T 0174

START OF SEGMENT ***** 55

REAL H>J,K;

10260040 T 0000

A+ TRUE; B+ FALSE; C+ TRUE; H+ 29/2; J+ 29/2; K+ 29/1;

10260050 T 0000

A+ IF A THEN H>J ELSE B ; TEMP[1]+REAL(A,[47:1]);

10260060 T 0006

A+IF C THEN H>J EQV H>J ELSE B; TEMP[2]+REAL(A,[47:1]);

10260070 T 0011

A+H>J; TEMP[3]+REAL(A,[47:1]);

10260080 T 0017

A+H>J EQV J>H;TEMP[4]+REAL(A,[47:1]);

10260090 T 0020

A+IF A THEN H+J>K OR H>J ELSE C; TEMP[5]+REAL(A,[47:1]);

10260100 T 0025

A+ IF B THEN C ELSE H-J>K; TEMP[6]+REAL(A,[47:1]);

10260110 T 0031

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	A←H+J>K OR H>K ; TEMP[7]←REAL(A.[47:1]);	10260120 T 0037
1	A←IF C THEN H>J AND H>J ELSE B ; TEMP[8]←REAL(A.[47:1]);	10260130 T 0042
2		
3	A←H+K>J AND H>K; TEMP[9]←REAL(A.[47:1]);	10260140 T 0048
4		
5	A← IF C THEN NOT H>K ELSE NOT B; TEMP[10]←REAL(A.[47:1]);	10260150 T 0053
6		
7	A← NOT H>J; TEMP[11]←REAL(A.[47:1]);	10260160 T 0058
8		
9	FILL ANS[*] WITH OCTO, OCT1, OCTO, OCT1, OCTO, OCTO, OCTO,	10260170 T 0061
10		
11		START OF SEGMENT ***** 56
12		
13	OCTO, OCTO, OCT1, OCT1;	10260190 T 0063
14		
15		56 78 11 LONG, NEXT SEG 55
16		
17	CVN← 11 ;	10260200 T 0063
18		
19	PNO←26;	10260210 T 0064
20		
21	VERIFY	10260220 T 0065
22		
23	END;	10260230 T 0065
24		
25		55 75 69 LONG, NEXT SEG 10
26		
27	PROCEDURE P27; COMMENT THE RELATIONAL OPERATOR (≠);	10270010 T 0174
28		
29	BEGIN	10270020 T 0174
30		
31	BOOLEAN A, B, C;	10270030 T 0174
32		
33		START OF SEGMENT ***** 57
34		
35	INTEGER H, J, K ;	10270040 T 0000
36		
37	A← TRUE; B← FALSE; H← 20; J← 20; K← 40; C← TRUE;	10270050 T 0000
38		
39	A ← IF A THEN H≠J ELSE C; TEMP[1]← REAL (A.[47:1]);	10270060 T 0004
40		
41	A← TRUE;	10270070 T 0009
42		
43	A← IF A THEN H≠J EQV H≠J ELSE B; TEMP[2]← REAL(A.[47:1]);	10270080 T 0010
44		
45	A← H ≠ J; TEMP[3]← REAL (A);	10270090 T 0016
46		
47	A←H≠J EQV H≠J; TEMP[4]← REAL (A.[47:1]);	10270100 T 0019
48		
49	A← IF A THEN H+J≠K×2 OR H≠J ELSE C;	10270110 T 0023
50		
51	TEMP[5] ← REAL (A.[47:1]);	10270120 T 0028
52		
53	A← IF B THEN A ELSE H + J ≠ K ; TEMP[6] ← REAL (A.[47:1]);	10270130 T 0030
54		
55	A← H+J≠K OR H.[45:1] ≠ J.[45:1]; TEMP[7]← REAL(A.[47:1]);	10270140 T 0036
56		
57	A← TRUE;	10270150 T 0042
	A ← IF A THEN H≠J AND H≠J ELSE C; TEMP[8]← REAL (A.[47:1]);	10270160 T 0043

	A ← H + K ≠ J AND H ≠ K; TEMP [9] ← REAL (A.[47:1]);	10270170 T 0049
1	A ← IF A THEN NOT H≠K ELSE C ; TEMP[10] ← REAL(A.[47:1]);	10270180 T 0054
2	A ← NOT H≠J; TEMP[11] ← REAL(A.[47:1]);	10270190 T 0059
3	A ← IF A THEN H.[47:1] ≠ H × (J+2) ELSE FALSE;	10270200 T 0062
4	TEMP[12] ← REAL(A.[47:1]);	10270210 T 0066
5	A ← NOT TEMP[10] ≠ TEMP[11]; TEMP[13] ← REAL(A.[47:1]);	10270220 T 0069
6	A ← (TEMP[10] × TEMP[11] MOD TEMP[11]) ≠ (H + (J×H.[45:3])/2);	10270230 T 0074
7	TEMP[14] ← REAL (A.[47:1]);	10270240 T 0080
8	A ← "ABCD" ≠ ""; TEMP[15] ← REAL(A.[47:1]);	10270250 T 0082
9	A ← "ABCDEF" ≠ "JKLMNP"; TEMP[16] ← REAL(A.[47:1]);	10270260 T 0086
10	FILL ANS[*] WITH OCT0, OCT1, OCT0, OCT1, OCT1, OCT0, OCT0,	10270270 T 0089
11		START OF SEGMENT ***** 58
12	OCT0, OCT1, OCT0, OCT1, OCT1, OCT0, OCT1, OCT1, OCT1;	10270280 T 0091
13		58 T S 16 LONG, NEXT SEG 57
14	CVN ← 16;	10270300 T 0091
15	PNO ← 27 ;	10270310 T 0092
16	VERIFY	10270320 T 0093
17	END;	10270330 T 0093
18		57 T S 100 LONG, NEXT SEG 10
19	PROCEDURE P28; COMMENT LOGICAL OPERATOR NOT	3,5,5,2; 10280010 T 0174
20	BEGIN	10280020 T 0174
21	INTEGER IO, IMAX;	10280030 T 0174
22		START OF SEGMENT ***** 59
23	ALPHA AA, AB, AC, AD;	10280040 T 0000
24	BOOLEAN T, F;	10280050 T 0000
25	BOOLEAN PROCEDURE X(K);	10280060 T 0000
26	BOOLEAN K;	10280070 T 0000
27	BEGIN	10280080 T 0000
28	X ← K AND TRUE;	10280090 T 0000
29	END;	10280100 T 0001
30	IO ← 0; IMAX ← 1023; AA ← "A"; AB ← "B"; AC ← "C"; AD ← "D";	10280110 T 0003

T←TRUE; F←FALSE;

10280120 T 0008

TEMP[1]←REAL (NOT TRUE);

10280130 T 0010

TEMP[2]←REAL (NOT FALSE);

10280140 T 0012

TEMP[3]←REAL (NOT (BOOLEAN (IMAX)));

10280150 T 0014

TEMP[4]←REAL (NOT (BOOLEAN (IO)));

10280160 T 0016

TEMP[5]←REAL (NOT X(TRUE)) ;

10280170 T 0018

TEMP[6]←REAL (NOT X(FALSE)) ;

10280180 T 0020

TEMP[7]←REAL (NOT AA < AB) ;

10280190 T 0023

TEMP[8]←REAL (NOT AA ≤ AA) ;

10280200 T 0025

TEMP[9]←REAL (NOT AC= AD) ;

10280210 T 0027

TEMP[10]←REAL (NOT AD ≥ AC) ;

10280220 T 0029

TEMP[11]←REAL (NOT AD > AC) ;

10280230 T 0032

TEMP[12]←REAL (NOT AD ≠ AD);

10280240 T 0034

TEMP[13]←REAL (NOT (IF AA = IMAX THEN TRUE ELSE FALSE));

10280250 T 0036

TEMP[14]← REAL (NOT T AND F);

10280260 T 0040

TEMP[15]←REAL (NOT T OR F);

10280270 T 0043

COMMENT *** TEMP[16]←REAL (NOT T IMP F) ****CHANGE OCT TO TRUE;

10280280 T 0045

TEMP[17]← REAL (NOT T EQV F);

10280290 T 0045

TEMP[18] ← REAL (NOT T , [47:1]);

10280300 T 0048

TEMP[19]← REAL (NOT T , [46:1]);

10280310 T 0050

FOR IO←1 STEP 1 UNTIL 19 DO TEMP[IO]←TEMP[IO].[47:1];

10280320 T 0053

COMMENT ANSWERS AND OUTPUT;

10280330 T 0059

FILL ANS [*] WITH OCT0, OCT1, OCT0,

10280340 T 0059

START OF SEGMENT ***** 60

OCT1, OCT0, OCT1,

10280350 T 0061

OCT0, OCT0, OCT1,

10280360 T 0061

OCT0, OCT0, OCT1,

10280370 T 0061

OCT1, OCT0, OCT0,

10280380 T 0061

OCT0, OCT1, OCT0,

10280390 T 0061

OCT1;

10280400 T 0061

CVN+19; PNO+28; VERIFY

10280410 T 0061

END;

10280420 T 0062

PROCEDURE P29; COMMENT THE LOGICAL OPERATOR AND ;

10290010 T 0174

BEGIN

10290020 T 0174

BOOLEAN A, B;

10290030 T 0174

START OF SEGMENT ***** 61

INTEGER H, J;

10290040 T 0000

BOOLEAN PROCEDURE BAND(BANDB);

10290050 T 0000

BOOLEAN BANDB;

10290060 T 0000

BEGIN

10290070 T 0000

BAND ← BANDB OR TRUE;

10290080 T 0000

END;

10290090 T 0001

INTEGER PROCEDURE TWOBAND(TWOB);

10290100 T 0003

INTEGER TWOB;

10290110 T 0003

BEGIN

10290120 T 0003

TWOBAND ← TWOB+5;

10290130 T 0003

END;

10290140 T 0005

A ← TRUE; B ← FALSE; H ← 14; J ← 7;

10290150 T 0007

A ← TRUE AND FALSE; TEMP[1] ← REAL(A.[47:1]);

10290160 T 0011

A ← TRUE AND NOT TRUE; TEMP[2] ← REAL(A.[47:1]);

10290170 T 0014

A ← TRUE AND TRUE AND TRUE; TEMP[3] ← REAL(A.[47:1]);

10290180 T 0018

A ← B AND B; TEMP[4] ← REAL(A.[47:1]);

10290190 T 0022

A ← B AND NOT B; TEMP[5] ← REAL(A.[47:1]);

10290200 T 0025

A ← A AND B AND B; TEMP[6] ← REAL(A.[47:1]);

10290210 T 0029

A ← BAND(TRUE) AND BAND(FALSE); TEMP[7] ← REAL(A.[47:1]);

10290220 T 0033

A ← BAND(A) AND NOT BAND(B); TEMP[8] ← REAL(A.[47:1]);

10290230 T 0038

A ← BAND(TRUE) AND BAND(A) AND NOT A; TEMP[9] ← REAL(A.[47:1]);

10290235 T 0042

A ← H+J > TWOBAND(11) AND H > J; TEMP[10] ← REAL(A.[47:1]);

10290240 T 0048

A ← H-J > J AND NOT J > H; TEMP[11] ← REAL(A.[47:1]);

10290250 T 0053

A ← H+J>H AND H>TWOBAND (5) AND TWOBAND(0) < TWOBAND(1); 10290260 T 0058

TEMP[12] ← REAL (A,[47:1]); 10290270 T 0063

A ← (TRUE AND TRUE OR TRUE) AND (B AND A); 10290280 T 0066

TEMP[13] ← REAL (A,[47:1]); 10290290 T 0068

A ← (H=J/J AND NOT H>J) AND (BAND(A) OR NOT TWOBAND (3)>H); 10290300 T 0071

TEMP[14] ← REAL(A,[47:1]); 10290310 T 0076

A ← (TRUE AND FALSE) AND (H+J>H) AND (BAND(A) AND NOT H <

TWOBAND(0)); TEMP [15] ← REAL(A,[47:1]); 10290330 T 0081

A ← H,[45:3]>H,[45:2] AND J,[45:3] ≠ J,[45:1]; 10290340 T 0086

TEMP[16] ← REAL(A,[47:1]); 10290350 T 0090

A ← H,[45:3]> TWOBAND(5) AND NOT J,[45:1]>0 ; 10290360 T 0092

TEMP[17] ← REAL(A,[47:1]); 10290370 T 0096

A ← H,[45:1] ≠ 0 AND J,[45:3]>0 AND B; TEMP[18] ← REAL(A,[47:1]); 10290380 T 0098

FILL ANS[*] WITH OCT0, OCT0, OCT1, OCT0, OCT0, OCT0, OCT1, 10290400 T 0104

START OF SEGMENT ***** 62

OCT0, OCT1, OCT1, OCT0, OCT1, OCT0, 10290410 T 0106

OCT0, OCT0, OCT1, OCT0, OCT0; 10290420 T 0106

62 T S 18 LONG, NEXT SEG 61

CVN ← 18 ; 10290440 T 0106

PND ← 29 ; 10290450 T 0107

VERIFY 10290460 T 0107

END; 10290470 T 0107

61 T S 111 LONG, NEXT SEG 10

PROCEDURE P30; COMMENT THE LOGICAL OPERATOR OR; 10300010 T 0174

BEGIN 10300020 T 0174

BOOLEAN A,B; 10300030 T 0174

START OF SEGMENT ***** 63

INTEGER H,J; 10300040 T 0000

BOOLEAN PROCEDURE ONEOR (PARA1); 10300050 T 0000

BOOLEAN PARA1; 10300060 T 0000

BEGIN 10300070 T 0000

	ONEOR← TRUE AND PARA1;END;	10300080 T 0000
1	INTEGER PROCEDURE TWOOR (PARA2);	10300090 T 0003
2	INTEGER PARA2;	10300100 T 0003
3	BEGIN	10300110 T 0003
4	TWOOR← PARA2+2 ; END;	10300120 T 0003
5	A←TRUE ; B← FALSE ; H← 14 ; J← 7;	10300130 T 0007
6	A← TRUE OR FALSE; TEMP[1] ← REAL (A);	10300140 T 0011
7	A←TRUE OR NOT TRUE; TEMP[2]←REAL(A.[47:1]);	10300150 T 0014
8	A← TRUE AND TRUE OR TRUE; TEMP[3]← REAL (A) ;	10300160 T 0017
9	A← B OR B ; TEMP[4]← REAL (A.[47:1]);	10300170 T 0021
10	A← A OR NOT B ; TEMP [5]← REAL (A.[47:1]);	10300180 T 0024
11	A← A AND B OR B ; TEMP [6]← REAL (A.[47:1]); A←TRUE;	10300190 T 0028
12	A ← ONEOR (A) OR ONEOR (B); TEMP[7]← REAL (A.[47:1]);	10300200 T 0033
13	A ← ONEOR (A) OR NOT ONEOR (A); TEMP[8]←REAL(A.[47:1]);	10300210 T 0037
14	A← ONEOR (B) AND ONEOR (A) OR ONEOR(B);	10300220 T 0042
15	TEMP[9]← REAL (A.[47:1]);	10300230 T 0045
16	A← H+J<TWOOR(3) OR H<J; TEMP[10]← REAL (A);	10300240 T 0048
17	A←H-J≠J OR NOT H>J; TEMP[11]← REAL (A.[47:1]);	10300250 T 0053
18	A← H+J>H AND H>J OR J<H ; TEMP [12] ← REAL (A);	10300260 T 0058
19	A← (TRUE AND TRUE OR TRUE) OR (B OR B);	10300270 T 0063
20	TEMP[13]← REAL (A.[47:1]);	10300280 T 0066
21	A← (H=J ≠ J OR NOT H>J) OR (ONEOR (A) OR NOT H >	10300290 T 0068
22	TWOOR(2)); TEMP[14]← REAL (A.[47:1]);	10300300 T 0071
23	A← (TRUE OR FALSE) AND (H + J > H) OR (H > J) ;	10300310 T 0076
24	TEMP[15]← REAL (A.[47:1]);	10300320 T 0079
25	A← H.[45:3] > H.[45:2] OR J.[45:3] ≠ J.[45:1];	10300330 T 0082
26	TEMP[16]← REAL (A.[47:1]);	10300340 T 0086
27	A← H. [45:3]> TWOOR(1) OR NOT J.[45:1]>0;	10300350 T 0088
28	TEMP[17]← REAL(A.[47:1]);	10300360 T 0092
29	A←H.[45:1]≠0 AND J.[45:3]>0 OR B;	10300370 T 0094

TEMP[18]← REAL(A.[47:1]);

10300380 T 0098

FILL ANS[*] WITH OCT1, OCT1, OCT1, OCT0, OCT1, OCT0, OCT1, OCT1,

10300390 T 0100

START OF SEGMENT ***** 64

OCT0, OCT0, OCT0, OCT1, OCT1, OCT1, OCT1, OCT1,

10300400 T 0102

OCT1, OCT1;

10300410 T 0102

64, 8 18 LONG, NEXT SEG 63

CVN← 18 ;

10300420 T 0102

PND ← 30 ;

10300430 T 0103

VERIFY

10300440 T 0103

END;

10300450 T 0103

63, 8 107 LONG, NEXT SEG 10

PROCEDURE P31; COMMENT LOGICAL OPERATOR IMP

3,5,5,2;

10310010 T 0174

BEGIN

10310020 T 0174

INTEGER IO, I1, IN1, I2, IN2, IMAX, IMIN;

10310030 T 0174

START OF SEGMENT ***** 65

REAL R, RR, RRR;

10310040 T 0000

ALPHA AA, AB;

10310050 T 0000

BOOLEAN BO, B1;

10310060 T 0000

REAL PROCEDURE X(K);

10310070 T 0000

REAL K;

10310080 T 0000

BEGIN

10310090 T 0000

X←K+(23/10);

10310100 T 0000

END;

10310110 T 0001

INTEGER PROCEDURE Y(L);

10310120 T 0004

INTEGER L;

10310130 T 0004

BEGIN

10310140 T 0004

Y← L+5;

10310150 T 0004

END;

10310160 T 0006

BOOLEAN PROCEDURE Z(M);

10310170 T 0008

BOOLEAN M;

10310180 T 0008

BEGIN

10310190 T 0008

Z←M AND TRUE;

10310200 T 0008

END;

10310210 T 0010

I0←0; I1←1; IN1←-1; I2←2; IN2←-2;

10310220 T 0012

IMAX←1023; IMIN←-1023;

10310230 T 0017

R←11/10; RR←22/10; RRR←33/10;

10310240 T 0019

AA←"A"; AB←"B";

10310250 T 0022

B0←FALSE; B1←TRUE;

10310260 T 0024

TEMP[1]←REAL(TRUE IMP FALSE);

10310270 T 0025

TEMP[1]←TEMP[1].[47:1];

10310275 T 0028

TEMP[2]←REAL(FALSE IMP TRUE);

10310280 T 0031

TEMP[2]←TEMP[2].[47:1];

10310285 T 0034

TEMP[3]←REAL(FALSE IMP FALSE);

10310290 T 0037

TEMP[3]←TEMP[3].[47:1];

10310295 T 0040

TEMP[4]←REAL(TRUE IMP TRUE);

10310300 T 0043

TEMP[04]←TEMP[4].[47:1];

10310305 T 0045

TEMP[5]←REAL(TRUE IMP B1);

10310310 T 0048

TEMP[05]←TEMP[5].[47:1];

10310315 T 0051

TEMP[6]←REAL(FALSE IMP Z(TRUE));

10310320 T 0054

TEMP[06]←TEMP[6].[47:1];

10310325 T 0057

TEMP[7]←REAL(FALSE IMP IN1 < IN2);

10310330 T 0060

TEMP[07]←TEMP[7].[47:1];

10310335 T 0063

TEMP[8]←REAL(TRUE IMP (IF I2<3 THEN TRUE ELSE FALSE));

10310340 T 0066

TEMP[8]←TEMP[8].[47:1];

10310345 T 0071

TEMP[9]←REAL(FALSE IMP BOOLEAN(I0.[47:1]));

10310350 T 0074

TEMP[9]←TEMP[9].[47:1];

10310355 T 0077

TEMP[10]←REAL(B1 IMP BOOLEAN(I1));

10310360 T 0080

TEMP[10]←TEMP[10].[47:1];

10310365 T 0083

TEMP[11]←REAL(B0 IMP Z(FALSE));

10310370 T 0086

TEMP[11]←TEMP[11].[47:1];

10310375 T 0089

TEMP[12]← REAL (B0 IMP R ≥ AB);	10310380 T 0092
TEMP[12]← TEMP[12].[47:1];	10310385 T 0095
TEMP[13]← REAL (B1 IMP B0 EQV B1);	10310390 T 0098
TEMP[14]← REAL(B1 IMP BOOLEAN (IMAX.[47:1]));	10310400 T 0102
TEMP[14]← TEMP[14].[47:1];	10310405 T 0105
TEMP[15]← REAL (Z(TRUE) IMP BOOLEAN (Y(=4)));	10301041 T 0108
TEMP[15]← TEMP[15].[47:1];	10310415 T 0115
TEMP[16]←REAL (Z(FALSE) IMP (RR < X(1)));	10310420 T 0118
TEMP[16]← TEMP[16].[47:1];	10310425 T 0122
TEMP[17]←REAL (Z(FALSE) IMP B0 OR BOOLEAN (10));	10310430 T 0125
TEMP[17]← TEMP[17].[47:1];	10310435 T 0128
TEMP[18]← REAL (Z(TRUE) IMP BOOLEAN (IMAX.[47:1]));	10310440 T 0131
TEMP[18]← TEMP[18].[47:1];	10310445 T 0135
TEMP[19]← REAL ((B0 IMP BOOLEAN(I0)) IMP (NOT B1 IMP B0));	10310450 T 0138
TEMP[20]← REAL (I2 < I1 IMP NOT B1);	10310460 T 0143
TEMP[20]← TEMP[20].[47:1];	10310465 T 0146
TEMP[21]← REAL ((RRRSRR) IMP BOOLEAN (IMAX.[39:1]));	10310470 T 0149
TEMP[21]← TEMP[21].[47:1];	10310475 T 0152
TEMP[22]← REAL (B0 AND BOOLEAN (I0) IMP NOT B1 OR B0);	10310480 T 0155
TEMP[22] ←TEMP[22].[47:1];	10310485 T 0159
TEMP[23]← REAL (B1 IMP BOOLEAN (IMIN.[41:1]) IMP NOT B0);	10310490 T 0162
TEMP[23]← TEMP[23].[47:1];	10310495 T 0166
TEMP[24]← REAL (BOOLEAN (I0.[45:1]) IMP B0.[40:1]);	10310500 T 0169
TEMP[24]← TEMP[24].[47:1];	10310505 T 0173

COMMENT ANSWERS AND OUTPUT;

10310510 T 0176

FILL ANS[*] WITH OCT0, OCT1, OCT1,

10310520 T 0176

START OF SEGMENT ***** 66

OCT1, OCT1, OCT1,

10310530 T 0178

OCT1, OCT1, OCT1,

10310540 T 0178

OCT1, OCT1, OCT1,

10310550 T 0178

OCT0, OCT1, OCT1,

10310560 T 0178

OCT1, OCT1, OCT1,

10310570 T 0178

OCT1, OCT1, OCT1,

10310580 T 0178

OCT1, OCT1, OCT1;

10310590 T 0178

66 T S 24 LONG, NEXT SEG 65

CVN+25;

10310600 T 0178

PNO+31;

10310610 T 0179

VERIFY

10310620 T 0179

END;

10310630 T 0179

65 T S 186 LONG, NEXT SEG 10

PROCEDURE P32; COMMENT 3.5.5.2 EQV;

10320010 T 0174

BEGIN

10320020 T 0174

BOOLEAN A, B, C, D;

10320030 T 0174

START OF SEGMENT ***** 67

A+TRUE; B+FALSE; C+TRUE; D+FALSE;

10320040 T 0000

TEMP[1] + IF A EQV C THEN 1 ELSE 0;

10320050 T 0003

TEMP[2] + IF A EQV D THEN 1 ELSE 0;

10320060 T 0006

TEMP[3] + IF B EQV C THEN 1 ELSE 0;

10320070 T 0010

TEMP[4] + IF B EQV D THEN 1 ELSE 0;

10320080 T 0014

TEMP[5] + IF B EQV(A EQV(B EQV C)) THEN 1 ELSE 0;

10320090 T 0018

TEMP[6] + IF (B OR C) EQV A THEN 1 ELSE 0;

10320100 T 0022

FILL ANS[*] WITH OCT1, OCT0, OCT0, OCT1, OCT1, OCT1;

10320110 T 0027

START OF SEGMENT ***** 68

68 T S 6 LONG, NEXT SEG 67

CVN +6; PNO + 32; VERIFY

10320120 T 0028

END;

10320130 T 0030

67 T S 33 LONG, NEXT SEG 10

PROCEDURE P33; COMMENT SIMPLE DESIGNATION EXPRESSION 3.6.3.1

10330010 T 0174

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10330020 T 0174

BEGIN

10330030 T 0174

LABEL A1, A2, A3, A4, A5, A6, A7, A11, A22, A33, A34, A44, A45, A46,

10330040 T 0174

START OF SEGMENT ***** 69

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A48,A47,C1,C2,C3,C4,C5,C6,C7,C8,C9,C10,C11,C12,C13,C14,

10330045 T 0000

C15,C16,C17,C18,C19,C20,C21,C22,C23,C24,C25,C26,

10330046 T 0000

C27,C28, D1,D2,D3,D4,D5,D6;

10330047 T 0000

LABEL B1,B2,B3,B4,B5,B6,B7,B8;

10330048 T 0000

REAL A,B;

10330050 T 0000

INTEGER H,C;

10330060 T 0000

BOOLEAN D,E;

10330070 T 0000

SWITCH SIMDESIG(A1,A2,A3,A4,A5,A6,A7)

10330080 T 0000

SWITCH EXTRA + B1,B2,B3,B4,B5,B6,B7,B8;

10330085 T 0006

SWITCH DESIGSTAT FORWARD;

10330086 T 0014

INTEGER PROCEDURE A55(A55A); INTEGER A55A; FORWARD;

10330087 T 0014

SWITCH DESIGSTAT+ A11,(A22), EXTRA [A+B], IF D THEN A33

10330090 T 0014

ELSE A34, IF D THEN EXTRA [2+(3 MOD 2)]

10330100 T 0025

ELSE DESIGSTAT [7], IF D THEN A44 ELSE IF

10330110 T 0031

E THEN A45 ELSE A46, C26,

10330120 T 0037

EXTRA [(A55(3)+H.[47:1] + ENTIER (A))];

10330130 T 0044

INTEGER PROCEDURE A55(A55A);

10330140 T 0056

INTEGER A55A ;

10330145 T 0058

BEGIN

10330150 T 0058

A55← A55A + 1;

10330160 T 0058

END;

10330170 T 0059

A← 3/2; B← 7/4; D← TRUE ; E←TRUE; H←77 ;C← 1;

10330180 T 0061

GO TO A1; TEMP[C]← 0; C← C+1; GO TO D1;

10330190 T 0067

A1: TEMP[C] ← 2; C← C+1;

10330200 T 0071

D1: GO TO (A2); TEMP[C]← 0; C← C+1; GO TO D2;

10330210 T 0075

A2: TEMP[C] ← 3;C← C+1;

10330220 T 0080

D2: GO TO SIMDESIG[4+7-8]; TEMP[C]← 0; C← C+1; GO TO D3;

10330230 T 0084

A3: TEMP[C] ← 4;C← C+1;

10330240 T 0090

D3: GO TO SIMDESIG[B + B + B - A]; TEMP[C]← 0; C← C+1; GO TO D4;

10330250 T 0094

A4: TEMP[C]← 5; C← C+1;

10330260 T 0100

D4: GO TO SIMDESIG [H.[45:3]]; TEMP[C]← 0; C← C+1; GO TO D5;

10330270 T 0104

	A5: TEMP[C] + 6; C+ C+1;	10330280 T 0109
1	D5: GO TO SIMDESIG [A55(5)]; TEMP[C]+ 0; C+ C+1; GO TO D6;	10330290 T 0113
2		
3	A6: TEMP[C]+ 7; C+ C+1;	10330300 T 0118
4		
5	D6: GO TO SIMDESIG [(H.[45:3] x A)+ B + A55(-3)]; TEMP[C]+0;	10330310 T 0122
6		
7	C+C+1;	10330330 T 0131
8		
9	A7: GO TO (IF D THEN C1 ELSE C2); TEMP[C]+0; C+C+1;GO TO C3;	10330300 T 0132
10		
11	C1: TEMP[C]+8; C+C+1; GO TO C3;	10330350 T 0141
12		
13	C2: TEMP[C]+88;C+C+1;	10330360 T 0144
14		
15	C3: GO TO (IF D THEN (C4) ELSE (C5)); TEMP[C]+0; C+C+1;GO TO C6;	10330370 T 0148
16		
17	C4: TEMP[C]+9; C+C+1; GO TO C6;	10330380 T 0156
18		
19	C5: TEMP[C]+99;C+C+1;	10330390 T 0159
20		
21	C6: GO TO (IF D THEN (IF E THEN C7 ELSE C8) ELSE C9); TEMP[C]+0;	10330400 T 0163
22		
23	C+ C+1; GO TO C10;	10330410 T 0171
24		
25	C7: TEMP[C]+10; C+C+1; GO TO C10 ;	10330420 T 0173
26		
27	C8: TEMP[C]+ 100; C+C+1; GO TO C10;	10330430 T 0177
28		
29	C9: TEMP[C]+111; C+C+1;	10330440 T 0181
30		
31	C10: E+FALSE; GO TO (IF D THEN (IF E THEN C12 ELSE C11) ELSE	10330450 T 0185
32	(IF E THEN C13 ELSE (IF E THEN C14 ELSE C15)));	10330460 T 0190
33		
34	TEMP[C]+0; C+C+1; GO TO C16;	10330470 T 0197
35		
36	C11: TEMP[C]+11; C+C+1; GO TO C16;	10330480 T 0201
37		
38	C12: TEMP[C]+112; C+C+1; GO TO C16;	10330490 T 0205
39		
40	C13: TEMP[C]+113;C+C+1; GO TO C16;	10330500 T 0209
41		
42	C14: TEMP[C]+114; C+C+1; GO TO C16;	10330510 T 0213
43		
44	C15: TEMP[C]+115; C+C+1;	10330520 T 0217
45		
46	C16: GO TO (IF D THEN DESIGSTAT[B + B -A -A] ELSE C17);TEMP[C]+0;	10330530 T 0221
47		
48	C+ C+1; GO TO C18 ;	10330540 T 0228
49		
50	A11: TEMP[C]+12;C+C+1; GO TO C18;	10330550 T 0230
51		
52	C17: TEMP[C]+121; C+C+1;	10330560 T 0234
53		
54	C18: GO TO (IF D THEN (IF D THEN DESIGSTAT [H.[45:2]]ELSE	10330570 T 0238
55	C19) ELSE (C20)); TEMP[C]+0; C+C+1; GO TO C21;	10330580 T 0241
56		
57	A22: TEMP[C]+13; C+C+1; GO TO C21;	10330590 T 0249

C19: TEMP[C]+131; C+C+1; GO TO C21;	10330600 T 0252
C20: TEMP[C] +132; C+C+1;	10330610 T 0256
C21: GO TO (IF D THEN (IF E THEN C22 ELSE DESIGSTAT [A55(2)]) ELSE	10330620 T 0260
(IF E THEN C23 ELSE (IF E THEN C24 ELSE C25)));	10330630 T 0265
TEMP[C]+0; C+C+1; GO TO C26;	10330640 T 0272
B3: TEMP[C]+14; C+C+1; GO TO C26;	10330650 T 0276
C22: TEMP[C]+141; C+C+1; GO TO C26;	10330660 T 0279
C23: TEMP[C]+142; C+C+1; GO TO C26;	10330670 T 0283
C24: TEMP[C]+ 143; C+C+1; GO TO C26;	10330680 T 0287
C25: TEMP[C] + 144; C+C+1;	10330690 T 0291
C26: GO TO DESIGSTAT[H.[42:6]x(A+B) = A55(37)];	10330700 T 0295
TEMP[C]+0; C+C+1; GO TO C27;	10330710 T 0299
A33: TEMP[C]+15; C+C+1; GO TO C27;	10330720 T 0303
A34: TEMP[C]+151; C+C+1;	10330730 T 0306
C27: GO TO EXTRA [5]; TEMP[C]+0; C+C+1; GO TO C28;	10330740 T 0310
B5: TEMP[C]+16; C+C+1; GO TO C28;	10330750 T 0315
A48: TEMP[C]+161; C+C+1;	10330760 T 0319
C28: GO TO DESIGSTAT[8]; TEMP[C]+0; C+ C+1; GO TO A47;	10330770 T 0323
B6: TEMP[C]+ 17; GO TO A47;	10330780 T 0328
A47: B1; B2; B4; B8; B7; A44:A45; A46;	10330790 T 0331
FILL ANS [*] WITH OCT2, OCT3, OCT4, OCT5, OCT6, OCT7,	10330800 T 0332
	START OF SEGMENT ***** 70
OCT10, OCT11, OCT12, OCT13, OCT14,	10330810 T 0333
OCT15, OCT16, OCT17, OCT20, OCT21;	10330820 T 0333
	70 ,S 16 LONG, NEXT SEG 69
CVN+16;	10330830 T 0333
PNO+33;	10330840 T 0334
VERIFY	10330850 T 0335
END;	10330860 T 0335
	69 ,S 342 LONG, NEXT SEG 10

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10340020 T 0174

BEGIN

10340030 T 0174

LABEL X1, X2, X3, X4, X5, X6, X47, Y1, Y2, Y3, Y4, Y5, Y6,

10340040 T 0174

START OF SEGMENT ***** 71

Y7, Y8, Y9, Y10, Y11, Y12, Y13, Y14, Y15, Y16, Y17,

10340040 T 0000

Y18, Y19, Y20;

10340050 T 0000

INTEGER H,K;

10340060 T 0000

REAL A,B,C;

10340070 T 0000

BOOLEAN D,E;

10340080 T 0000

SWITCH GENERAL FORWARD ;

10340081 T 0000

SWITCH GEN FORWARD ;

10340082 T 0000

SWITCH GENDESIG FORWARD;

10340085 T 0000

REAL PROCEDURE FUN(AAA); REAL AAA; FORWARD;

10340086 T 0000

SWITCH GENDESIG ← GEN[A+B], IF D THEN GENERAL[8/2] ELSE

10340090 T 0000

GEN[C+1], GENDESIG[4], GEN[H,[46:2]];

10340100 T 0007

SWITCH GEN← GENERAL[3 MOD 2], GENERAL[FUN(17/4)],

10340110 T 0018

GENERAL[(A+B ×(H/2) +(3 DIV 2))];

10340120 T 0029

SWITCH GENERAL ← X1, X2, X3, X4, X5, X6;

10340130 T 0037

REAL PROCEDURE FUN(AAA);

10340140 T 0058

REAL AAA;

10340150 T 0058

BEGIN

10340160 T 0058

FUN← AAA/2;

10340170 T 0058

END;

10340180 T 0060

H←7; A← 3/4; B← 7/20; C← 9/10; D← TRUE; E← FALSE; K← 1;

10340190 T 0062

GO TO IF D THEN Y1 ELSE Y2; TEMP[K]←REAL(D); K←K+1; GO TO Y3;

10340210 T 0069

Y1: TEMP[K]← 1; K←K+1; GO TO Y3;

10340220 T 0077

Y2: TEMP[K]← 11; K←K+1;

10340230 T 0081

Y3: GO TO IF E THEN Y4 ELSE GENDESIG[A]; TEMP[K]←0; K←K+1; GO TO Y5;

10340240 T 0085

Y4: TEMP[K]← 21; K← K+1; GO TO Y5;

10340250 T 0093

X1: TEMP[K]← 2 ; K←K+1;

10340260 T 0096

Y5: GO TO IF D THEN GENDESIG[A+1] ELSE Y6; TEMP[K]←0; K←K+1;

10340270 T 0100

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	GO TO Y7;	10340280 T 0108
1	X4: TEMP[K]+3 ; K+K+1; GO TO Y7;	10340290 T 0108
2		
3	Y6: TEMP[K]+ 31; K+K+1;	10340300 T 0112
4		
5	Y7: GO TO IF D THEN (IF E THEN Y8 ELSE Y9) ELSE Y10; TEMP[K]+0; K+K+1;	10340310 T 0116
6		
7	GO TO Y11;	10340320 T 0126
8		
9	Y8: TEMP[K]+41; K+ K+1; GO TO Y11;	10340330 T 0126
10		
11	Y9: TEMP[K]+4; K+ K+1; GO TO Y11;	10340340 T 0130
12		
13	Y10: TEMP[K]+42; K+ K+1;	10340350 T 0134
14		
15	Y11: GO TO IF E THEN Y12 ELSE IF E THEN Y13 ELSE Y14;	10340360 T 0138
16		
17	TEMP[K]+0; K+K+1; GO TO Y15;	10340370 T 0145
18		
19	Y12: TEMP[K]+51; K+K+1; GO TO Y15;	10340380 T 0148
20		
21	Y13: TEMP[K]+52; K+K+1; GO TO Y15;	10340390 T 0152
22		
23	Y14: TEMP[K]+5 ; K+ K+1;	10340400 T 0156
24		
25	Y15: GO TO IF E THEN GENERAL[5] ELSE IF E THEN GENERAL[6] ELSE	10340410 T 0160
26		
27	GENDESIG[3]; TEMP[K]+0; K+K+1; GO TO Y16;	10340420 T 0164
28		
29	X5: TEMP[K]+61; K+K+1; GO TO Y16;	10340430 T 0170
30		
31	X6: TEMP[K]+62; K+K+1; GO TO Y16;	10340440 T 0173
32		
33	X3: TEMP[K]+6 ; K+K+1;	10340450 T 0177
34		
35	Y16: D+FALSE; GO TO IF E THEN (IF E THEN Y17 ELSE Y18) ELSE IF E THEN	10340360 T 0181
36		
37	(IF D THEN Y19 ELSE Y20) ELSE GENDESIG[H,[46:2] -1];	10340470 T 0187
38		
39	TEMP[K]+0 ; GO TO X47;	10340480 T 0194
40		
41	Y17: TEMP[K]+71; GO TO X47;	10340490 T 0197
42		
43	Y18: TEMP[K]+72; GO TO X47;	10340500 T 0199
44		
45	Y19: TEMP[K]+73; GO TO X47;	10340510 T 0202
46		
47	Y20: TEMP[K]+ 74; GO TO X47;	10340520 T 0205
48		
49	X2: TEMP[K]+7;	10340530 T 0208
50		
51	X47:	10340540 T 0210
52		
53	FILL ANS [*] WITH OCT1, OCT2, OCT3, OCT4, OCT5, OCT6, OCT7;	10340550 T 0211
54		

START OF SEGMENT ***** 72

72 ,8 7 LONG. NEXT SEG 71

PN0← 34;

10340580 T 0213

VERIFY

10340590 T 0214

END;

10340600 T 0214

71 ,S 222 LONG, NEXT SEG 10

PROCEDURE P35; COMMENT SUBSCRIPT EXPRESSION OF A SWITCH DESIGNATOR

10350010 T 0174

3.0.4. NOV. 15 1962. KM;

10350020 T 0174

BEGIN

10350025 T 0174

LABEL X1, X2, X3, X4, X5, X6, P1, P2, P3, P4, P5, P6, P7,

10350030 T 0174

START OF SEGMENT ***** 73

P8, P9, P10, P11, P44;

10350035 T 0000

REAL A,B,C; BOOLEAN K,L;

10350040 T 0000

INTEGER F,G,H,Q;

10350050 T 0000

SWITCH SUBS← X1,X2,X3,X4,X5, X6 ;

10350060 T 0000

INTEGER PROCEDURE SUBSVAL(SWICHVAL);

10350070 T 0006

INTEGER SWICHVAL;

10350080 T 0006

BEGIN

10350090 T 0006

SUBSVAL←SWICHVAL + 1;

10350100 T 0006

END ;

10350110 T 0008

A←2; B←4/3; C← 2/1; F←77; G← 55; H← 21; K← TRUE; Q←1;

10350120 T 0010

L← FALSE;

10350130 T 0018

GO TO IF K OR L THEN SUBS[2×C -(A+B)] ELSE P1; TEMP[Q]←0;

10350140 T 0018

Q←Q+1; GO TO P2;

10350150 T 0027

X1: TEMP[Q]←1; Q←Q+1; GO TO P2;

10350160 T 0029

P1: TEMP[Q]←11; Q←Q+1; GO TO P3;

10350170 T 0033

P2: GO TO IF L THEN P3 ELSE SUBS[(SUBSVAL(3) MOD A) + A];

10350180 T 0037

Q←Q+1; GO TO P4;

10350190 T 0044

P3: TEMP[Q]←21; Q←Q+1; GO TO P4;

10350200 T 0046

X2: TEMP[Q]←2; Q←Q+1;

10350210 T 0050

P4: GO TO IF K THEN SUBS["AB" MOD "A" + H.[43:2]] ELSE P5;

10350220 T 0054

TEMP[Q]←0 ; Q←Q+1; GO TO P6;

10350230 T 0060

P5: TEMP[Q]←0 ; Q←Q+1; GO TO P6;

10350240 T 0066

Data Documents/Inc.

X3: TEMP[Q]+3; Q+Q+1; GO TO P6;

10350245 T 0069

P6: GO TO IF K AND NOT L THEN SUBS["A"-SUBSVAL(12)] ELSE P7;

10350260 T 0073

TEMP[Q]+0 ; Q+Q+1; GO TO P8;

10350270 T 0081

P7: TEMP[Q]+41; Q+Q+1; GO TU P8;

10350280 T 0084

X4: TEMP[Q] + 4; Q+Q+1;

10350290 T 0088

P8: GO TO IF L THEN P9 ELSE SUBS[H.[42:6] +((-A)* 10) +4];

10350300 T 0092

TEMP[Q] + 0 ; Q+Q+1; GO TO P10;

10350310 T 0099

P9: TEMP[Q]+ 51; Q+Q+1; GO TO P10;

10350320 T 0103

X5: TEMP[Q]+ 5; Q+Q+1;

10350330 T 0106

P10:GO TO IF L THEN P11 ELSE SUBS[SUBSVAL(A,[45:3])+3];

10350340 T 0110

TEMP[Q]+0 ; GO TO P44;

10350350 T 0120

P11: TEMP[Q]+ 61; GO TO P44;

10350360 T 0122

X6: TEMP[Q]+ 6 ;

10350370 T 0125

P44:

10350380 T 0127

FILL ANS [*] WITH OCT1, OCT2, OCT3, OCT4, OCT5, OCT6 ;

10350390 T 0128

START OF SEGMENT ***** 74

74 rS 6 LONG, NEXT SEG 73

CVN+6 ;

10350400 T 0129

PND+35;

10350410 T 0130

VERIFY

10350420 T 0131

END;

10350430 T 0131

73 rS 139 LONG, NEXT SEG 10

PROCEDURE P36; COMMENT COMPOUND STATEMENT;

10360010 T 0174

BEGIN LABEL L1,L2,L3,L4,L5,L6;

10360020 T 0174

START OF SEGMENT ***** 75

BEGIN COMMENT DUMMY STATEMENT TEMP[1]+6 END; END;

10360030 T 0000

BEGIN END;

10360040 T 0000

BEGIN

10360045 T 0000

BEGIN BEGIN BEGIN TEMP[2] + 2 END END END;

10360050 T 0000

TEMP[3] +3;GO TO L1;

10360070 T 0001

L2:TEMP[5] + TEMP[4];GO TO L3;

10360080 T 0004

BEGIN

10360090 T 0007

L1: TEMP[4] ← TEMP[3]; GO TO L2;

10360100 T 0007

L3: END

10360120 T 0010

END;

10360130 T 0010

BEGIN

10360150 T 0010

GO TO L4 ; L5: GO TO L6;

10360160 T 0010

BEGIN

10360170 T 0011

L4: TEMP[6] ← 6; GO TO L5

10360180 T 0011

END;

10360190 T 0014

L6: END;

10360200 T 0014

FILL ANS[*] WITH OCT0, OCT2, OCT3, OCT3, OCT3, OCT6;

10360210 T 0015

START OF SEGMENT ***** 76

76 TS 6 LONG, NEXT SEG 75

CVN ← 6; PND ← 36; VERIFY

10360220 T 0016

END;

10360230 T 0018

75 TS 19 LONG, NEXT SEG 10

PROCEDURE P37; COMMENT 4.1 BLOCK, 5.0.2 DECLARATION, C.C.Z., 11-19-62;

10370010 T 0174

BEGIN INTEGER I1, I2, I3; REAL R1, R2, R3; BOOLEAN B1, B2, B3;

10370020 T 0174

START OF SEGMENT ***** 77

ARRAY A1[1:3], A2[1:3, 1:3], A3[1:3, 1:3, 1:3]; LABEL L1, L2, L3;

10370030 T 0000

L1: B1 ← B2 ← B3 ← TRUE ; R1 ← 1; R2 ← 2; R3 ← 3;

10370040 T 0006

FOR I1 ← 1 STEP 1 UNTIL 3 DO

10370050 T 0010

L2: BEGIN A1[I1] ← I1; FOR I2 ← 1 STEP 1 UNTIL 3 DO

10370060 T 0011

BEGIN A2[I1, I2] ← I1+I2; FOR I3 ← 1 STEP 1 UNTIL 3 DO

10370070 T 0014

A3[I1, I2, I3] ← A2[I1, I2] + I3;

10370080 T 0019

L3: END

10370090 T 0028

END;

10370100 T 0028

I1 ← 1; I2 ← 2 ; I3 ← 3; COMMENT INITIALIZATION DONE;

10370110 T 0032

BEGIN COMMENT RE-DECLARATION OF LABEL AS BOOLEAN VARIABLE;

10370120 T 0034

BOOLEAN L1; L1 ← B1; IF L1 THEN TEMP[1] ← 1

10370130 T 0034

START OF SEGMENT ***** 78

Data Documents/Inc.

END;

10370140 T 0002

78 Y S 4 LONG, NEXT SEG 77

BEGIN COMMENT USE OF GLOBAL VARIABLES AND RE-DECLARATION OF AN

10370150 T 0036

ARRAY AS A LABEL; LABEL A3; L1;

10370160 T 0036

START OF SEGMENT ***** 79

IF R1 < R2 THEN GO TO L1 ELSE GO TO A3 ;

10370170 T 0000

L1: TEMP[2] + R3;

10370180 T 0001

A3: END;

10370190 T 0003

79 Y S 5 LONG, NEXT SEG 77

BEGIN COMMENT SWITCH DECLARATIONS; LABEL L1, L2, L3; SWITCH SW1

10370200 T 0037

START OF SEGMENT ***** 80

+ L1, L2, L3; GO TO SW1[2]; GO TO L1; L2: TEMP[3] + 64;

10370210 T 0000

L1: L3: END;

10370220 T 0009

80 Y S 11 LONG, NEXT SEG 77

BEGIN COMMENT NESTED RE-DECLARATIONS; INTEGER I2; I2 + I3;

10370230 T 0038

START OF SEGMENT ***** 81

BEGIN INTEGER I1; I1 + I2 + I3;

10370240 T 0000

START OF SEGMENT ***** 82

BEGIN INTEGER I2; I2 + I1 + I3;

10370250 T 0001

START OF SEGMENT ***** 83

BEGIN INTEGER I1; I1 + I2 + I3; TEMP[4] + I1 END;

10370260 T 0001

START OF SEGMENT ***** 84

84 Y S 4 LONG, NEXT SEG 83

TEMP[5] + I2

10370270 T 0002

END; TEMP[6] + I1

10370280 T 0003

83 Y S 5 LONG, NEXT SEG 82

END; TEMP[7] + I2

10370290 T 0003

82 Y S 5 LONG, NEXT SEG 81

END; TEMP[8] + I2 ; TEMP[9] + I1 ;

10370300 T 0003

81 Y S 5 LONG, NEXT SEG 77

BEGIN COMMENT SPOT-CHECK OF ARRAY VALUES; ARRAY B1[I1:I3];

10370310 T 0042

START OF SEGMENT ***** 85

B2[I1:I3,I1:I3], B3[I1:I3,I1:I3,I1:I3]; INTEGER R1,R2,R3; 10370320 T 0005

FOR R1 + 1 STEP 1 UNTIL 3 DO 10370330 T 0021

BEGIN B1[R1] + A1[R1]; FOR R2 + 1 STEP 1 UNTIL 3 DO 10370340 T 0023

BEGIN B2[R1,R2] + A2[R1,R2]; FOR R3 + 1 STEP 1 UNTIL 10370350 T 0027

3 DO B3[R1,R2,R3]+A3[R1,R2,R3] 10370360 T 0032

END 10370370 T 0039

END; TEMP[10] + B1[3]; TEMP[11] + B2[3,3]; 10370380 T 0042

TEMP[12]+ B3[3,3,3]; 10370390 T 0053

END; TEMP[13] + R1; TEMP[14] + R2; TEMP[15] + R3; 10370400 T 0058

85 T S 62 LONG, NEXT SEG 77

IF B1 THEN TEMP[16] + 1; IF B2 THEN TEMP[17] + 1; 10370410 T 0048

IF B3 THEN TEMP[18] + 1; 10370420 T 0053

FILL ANS[*] WITH OCT1, OCT3, OCT100, OCT6, OCT5, OCT4, OCT3, 10370430 T 0055

START OF SEGMENT ***** 86

OCT2, OCT1, OCT3, OCT6, OCT11, OCT1, OCT2, 10370440 T 0057

OCT3, OCT1, OCT1, OCT1; 10370450 T 0057

86 T S 18 LONG, NEXT SEG 77

CVN + 18 ; PNO + 37 ; 10370460 T 0057

VERIFY 10370470 T 0059

END; 10370480 T 0059

77 T S 69 LONG, NEXT SEG 10

PROCEDURE P38; COMMENT ASSIGNMENT STATEMENT JW 30 OCT 63; 10380010 T 0174

BEGIN 10380020 T 0174

REAL A; 10380030 T 0174

START OF SEGMENT ***** 87

INTEGER J,K,M; 10380040 T 0000

BOOLEAN S,T; 10380050 T 0000

ALPHA Z; 10380060 T 0000

ARRAY X[1:3]; 10380070 T 0000

REAL PROCEDURE KORK;

10380080 T 0001

BEGIN

10380090 T 0001

TEMP[12] + KORK + TEMP[10]

10380100 T 0001

END;

10380110 T 0004

TEMP[1] + 27/2;

10380120 T 0008

TEMP[2] + 162;

10380130 T 0011

Z + "WEIZIR";

10380140 T 0013

TEMP[3] + Z;

10380150 T 0013

M + 7;

10380160 T 0015

T + TRUE;

10380170 T 0016

S + M < TEMP[2] AND T;

10380180 T 0017

TEMP[4] + IF S THEN 1 ELSE 0;

10380190 T 0019

J + 67/5;

10380200 T 0022

TEMP[5] + J;

10380210 T 0024

K + TEMP[1];

10380220 T 0025

TEMP[6] + K;

10380230 T 0027

TEMP[7] + TEMP[8] + TEMP[9] + TEMP[1];

10380240 T 0029

TEMP[10] + X[1] + 21/2;

10380250 T 0034

TEMP[11].[45:3] + M.[45:3];

10380260 T 0038

A + KORK;

10380270 T 0041

FILL ANS[*] WITH OCT101000000000154, OCT242, OCT662531713151,

10380280 T 0042

START OF SEGMENT ***** 88

OCT1, OCT15, OCT16, OCT101000000000154, OCT101000000000154,

10380290 T 0044

OCT101000000000154, OCT101000000000124, OCT7,

10380300 T 0044

OCT101000000000124;

10380305 T 0044

88 T S 12 LONG, NEXT SEG 87

CVN + 12;

10380310 T 0044

PNO + 38;

10380320 T 0045

VERIFY

10380330 T 0046

END;

10380340 T 0046

1 PROCEDURE P39; COMMENT GO TO STATEMENT WITHOUT PROCEDURES AND SWITCHES, 10390010 T 0174

2 4,3, WIT, 11-9-62, THIS PROCEDURE DOES NOT USE 10390020 T 0174

3 NORMAL TESTING MECHANISMS OF TEMP,ANS,VERIFY - 10390030 T 0174

4 THE PATH THROUGH THIS PROCEDURE IS AS FOLLOWS: 10390050 T 0174

5 L1 L2 L3 L4 L5 L6 L7 L8 L9 L10 10390070 T 0174

6 L11 L12 L13 L14 L15 L16 L17 L18 L19 L20 10390080 T 0174

7 L21 L22 L23 L24 L25 L26 L27 L28 L29 L30 10390090 T 0174

8 L31 L32 L33 L34 L35 L36 L37 L38 L39 L40 10390100 T 0174

9 L41 L42 L43 L44 L45 L46 L47 L48 L49 L50 10390110 T 0174

10 L51 L52 L53 L54 L55 L56 L57 L58 L59 L60 10390120 T 0174

11 L61 L62 L63 L64 L65 L66 L67 L68 L69 L70 10390130 T 0174

12 L71 L72 L73 L74; 10390140 T 0174

13 BEGIN 10390150 T 0174

14 LABEL L1,L2,L3,L4,L5,L6,L7,L8,L9,L11,L12,L13,L14,L15,L16, 10390160 T 0174

15 START OF SEGMENT ***** 89

16 L17,L18,L19,L20,L22,L23,L24,L25,L26,L27,L28,L29,L30,L31,L32, 10390170 T 0000

17 L33,L35,L36,L37,L38,L39,L41,L42,L44,L45,L46,L47,L48,L49,L50, 10390180 T 0000

18 L52,L53,L54,L55,L56,L57,L58,L59,L62,L63,L64,L67,L70,L71,L72, 10390190 T 0000

19 L73,L74,L75,L76,L77,L78,L79,L80,L81,L82,L83,L84,L85,L86,L87, 10390200 T 0000

20 L88,L89,L90,L91; 10390210 T 0000

21 MONITOR FNOK(L1,L2,L3,L4,L5,L6,L7,L8,L9,L11,L12,L13,L14,L15,L16, 10390220 T 0000

22 L17,L18,L19,L20,L22,L23,L24,L25,L26,L27,L28,L29,L30,L31,L32, 10390230 T 0000

23 L33,L35,L36,L37,L38,L39,L41,L42,L44,L45,L46,L47,L48,L49,L50, 10390231 T 0000

24 L52,L53,L54,L55,L56,L57,L58,L59,L62,L63,L64,L67,L70,L71,L72, 10390232 T 0000

25 L73,L74,L75,L76,L77,L78,L79,L80,L81,L82,L83,L84,L85,L86,L87, 10390233 T 0000

26 L88,L89,L90,L91); 10390234 T 0000

27 INTEGER I; 10390235 T 0000

28 L1: GO TO L2; 10390240 T 0000

29 L46: GO TO L47; 10390250 T 0000

30 10390260 T 0004

Data Documents/Inc.

L48: GO TO L49; 10390270 T 0008

L53: GO TO L54; 10390280 T 0012

L2: IF TRUE THEN L3: GO TO L4 ; 10390290 T 0016

L4: IF TRUE THEN L5: BEGIN L6: GO TO L7 END; 10390300 T 0025

L8: IF TRUE THEN L9: BEGIN LABEL L10; 10390310 T 0038

START OF SEGMENT ***** 90

MONITOR FNOK (L10); 10390312 T 0000

L10: GO TO L11 END; 10390320 T 0000

90 T S 7 LONG, NEXT SEG 89

L91: IF FALSE THEN L14: FOR I+0 DO L15: GO TO L16; 10390330 T 0047

L90: IF FALSE THEN L89: GO TO L74 ELSE L49: GO TO L50; 10390340 T 0062

L12: IF TRUE THEN L13: GO TO L14 ELSE L11: GO TO L12; 10390350 T 0077

L88: IF FALSE THEN L47: GO TO L48 ELSE L37: GO TO L38; 10390360 T 0091

L87: IF FALSE THEN L86: GO TO L74 ELSE L58: GO TO L59; 10390370 T 0105

L85: IF FALSE THEN L63: GO TO L64 ELSE L62: GO TO L63; 10390380 T 0119

L84: IF FALSE THEN L52: GO TO L53 ELSE L83: BEGIN L16: GO TO L17 10390390 T 0133

END; 10390392 T 0151

L82: IF FALSE THEN L19: GO TO L20 ELSE L20: BEGIN LABEL L21; 10390400 T 0151

START OF SEGMENT ***** 91

MONITOR FNOK (L21); L21: GO TO L22 END; 10390410 T 0000

91 T S 7 LONG, NEXT SEG 89

L23: IF FALSE THEN L22: GO TO L23 ELSE L24: FOR I+0 DO 10390420 T 0165

L25: GO TO L26; 10390430 T 0181

L81: IF FALSE THEN L41: GO TO L42 ELSE L26: IF TRUE THEN L27: 10390440 T 0185

GO TO L28; 10390450 T 0201

L28: FOR I+0 DO L29: GO TO L30; 10390460 T 0205

L30: FOR I+0 DO L31: BEGIN L32: GO TO L33 END; 10390470 T 0215

L38: FOR I+0 DO L39: BEGIN LABEL L40; 10390480 T 0230

START OF SEGMENT ***** 92

MONITOR FNOK (L40); 10390482 T 0000

L40: GO TO L41 END; 10390490 T 0000

Data Documents/Inc.

Data Documents/Inc.

		92 TS	7 LONG, NEXT SEG	89
1	L55: FOR I+0 DO L56: FOR I+0 DO L57: GO TO L58;	10390500	T	0241
2				
3	L70: FOR I+0 DO L71: IF TRUE THEN L72: GO TO L73 ELSE L73:	10390510	T	0259
4				
5				
6				
7				
8	L80: BEGIN L7: GO TO L8 END;	10390530	T	0279
9	L79: BEGIN L54: GO TO L55 END;	10390540	T	0288
10				
11	L78: BEGIN L17: BEGIN L18: GO TO L19 END END;	10390550	T	0296
12				
13	L77: BEGIN L33: BEGIN LABEL L34;	10390560	T	0308
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START OF SEGMENT ***** 93

93 TS 7 LONG, NEXT SEG 89

START OF SEGMENT ***** 94

94 TS 7 LONG, NEXT SEG 89

START OF SEGMENT ***** 95

95 TS 7 LONG, NEXT SEG 89

START OF SEGMENT ***** 96

START OF SEGMENT ***** 97

97 TS 7 LONG, NEXT SEG 96

96 TS 5 LONG, NEXT SEG 89

L59: BEGIN LABEL L60, L61;

10390650 T 0356

START OF SEGMENT ***** 98

MONITOR FNOK (L60, L61); L60: FOR I+0 DO

10390652 T 0000

L61: GO TO L62 END;

10390660 T 0006

98 T S 13 LONG, NEXT SEG 89

L64: BEGIN LABEL L65, L66;

10390670 T 0360

START OF SEGMENT ***** 99

MONITOR FNOK (L65, L66); L65: IF TRUE THEN

10390672 T 0000

L66: GO TO L67 END;

10390680 T 0003

99 T S 12 LONG, NEXT SEG 89

L74:

10390690 T 0364

END;

10390700 T 0364

89 T S 372 LONG, NEXT SEG 10

PROCEDURE P40; COMMENT DUMMY STATEMENT EK 12NOV 62;

10400010 T 0174

BEGIN

10400020 T 0174

REAL A, B, C;

10400030 T 0174

START OF SEGMENT ***** 100

INTEGER J, K, L, I;

10400040 T 0000

BOOLEAN F, T;

10400050 T 0000

ALPHA BETA;

10400060 T 0000

ARRAY X[1:3];

10400070 T 0000

LABEL L1;

10400080 T 0001

TEMP[1]← 1;

10400090 T 0001

; ; ; ;

10400100 T 0003

GO TO L1;

10400110 T 0003

L1:

10400120 T 0004

TEMP[2]← 2;

10400130 T 0004

FOR I+3 STEP 1 UNTIL 8 DO

10400150 T 0005

BEGIN

10400160 T 0007

LABEL L2;

10400170 T 0007

START OF SEGMENT ***** 101

Data Documents/Inc.

BOOLEAN TR;

10400180 T 0000

TEMP[I+5] ← I+5; ; ;

10400190 T 0000

TR ← TRUE ;

10400200 T 0002

IF TR THEN GO TO L2;

10400210 T 0003

TEMP[15] ← 15;

10400220 T 0004

;

10400230 T 0006

L2: ;

10400240 T 0006

TEMP[I] ← I;

10400250 T 0007

END;

10400260 T 0008

101 IS 10 LONG, NEXT SEG 100

BEGIN

10400270 T 0010

REAL PROCEDURE ABCD ;

10400290 T 0010

START OF SEGMENT ***** 102

BEGIN

10400300 T 0000

LABEL L3;

10400305 T 0000

START OF SEGMENT ***** 103

INTEGER J;

10400306 T 0000

L3: ;

10400310 T 0000

FOR J ← 0 STEP 1 UNTIL 3 DO ;

10400320 T 0000

END

10400330 T 0003

;

10400340 T 0003

103 IS 6 LONG, NEXT SEG 102

TEMP[14] ← ABCD;

10400350 T 0000

END ;

10400360 T 0002

102 IS 3 LONG, NEXT SEG 100

FILL ANS[*] WITH OCT1, OCT2, OCT3, OCT4, OCT5, OCT6, OCT7,

10400370 T 0011

START OF SEGMENT ***** 104

OCT10, OCT11, OCT12, OCT13, OCT14, OCT15, OCT0, OCT0;

10400380 T 0012

104 IS 15 LONG, NEXT SEG 100

CVN ← 15;

10400400 T 0012

PND ← 40; VERIFY

10400410 T 0013

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END;

10400420 T 0014

100 T8 21 LONG, NEXT SEG 10

PROCEDURE P41; COMMENT IF STATEMENT JW 31 OCT 62;

10410010 T 0174

BEGIN

10410020 T 0174

BOOLEAN A,B;

10410030 T 0174

START OF SEGMENT ***** 105

LABEL ABLE, CAIN, FIN1, NEXT;

10410040 T 0000

PROCEDURE NOTH(F1,F2);

10410050 T 0000

BOOLEAN F1,F2;

10410051 T 0000

BEGIN

10410060 T 0000

IF F1 OR F2 THEN TEMP[3] + TEMP[3]+4;

10410070 T 0000

TEMP[3] + TEMP[3]+6

10410080 T 0004

END;

10410090 T 0006

A + TRUE;

10410100 T 0007

B + FALSE;

10410110 T 0008

IF A THEN TEMP[1] + 135;

10410120 T 0009

IF B THEN BEGIN TEMP[2]+2; GO TO NEXT END;

10410130 T 0012

TEMP[2] + TEMP[2] +3;

10410140 T 0015

NEXT: IF A THEN NOTH(A,B);

10410150 T 0018

IF A THEN GO TO ABLE;

10410160 T 0019

TEMP[4] + 100;

10410170 T 0020

ABLE: IF A OR B THEN TEMP[4] + TEMP[4]+7;

10410180 T 0022

IF A OR B THEN BEGIN TEMP[5] + 8;

10410190 T 0027

TEMP[5] + TEMP[5]+1 END;

10410200 T 0030

IF A THEN BEGIN REAL M,N;

10410210 T 0033

START OF SEGMENT ***** 106

M+ TEMP[6] + 11;

10410220 T 0000

N+ TEMP[5];

10410230 T 0002

TEMP[6] + TEMP[6] +1 END;

10410240 T 0003

106 T8 8 LONG, NEXT SEG 105

GO TO CAIN;

10410250 T 0035

TEMP[7] + TEMP[7]+30;

10410260 T 0035

IF A THEN CAIN: TEMP[7] + TEMP[7] +31;

10410270 T 0038

GO TO FINI;

10410280 T 0043

TEMP[8] + TEMP[8]+27;

10410290 T 0043

IF B THEN FINI: TEMP[8] + TEMP[8]+28;

10410300 T 0046

FILL ANS[*] WITH OCT207, OCT3, OCT12, OCT7, OCT11, OCT14,

10410310 T 0051

START OF SEGMENT ***** 107

OCT37, OCT34;

10410320 T 0052

107 TS 8 LONG, NEXT SEG 105

CVN+ 8;

10410330 T 0052

PNO + 41;

10410340 T 0053

VERIFY

10410350 T 0054

END;

10410360 T 0054

105 TS 57 LONG, NEXT SEG 10

PROCEDURE P42; COMMENT IF THEN ELSE STATEMENT JW 31 OCT 62;

10420010 T 0174

BEGIN

10420020 T 0174

INTEGER J;

10420030 T 0174

START OF SEGMENT ***** 108

BOOLEAN A,B;

10420040 T 0000

INTEGER X,Y;

10420050 T 0000

LABEL BAKE, MANNY, MOE, JACK, DOG, EASY, FOX, LAST;

10420060 T 0000

A+ TRUE;

10420070 T 0000

B+ FALSE;

10420080 T 0000

X+ Y + 4;

10420090 T 0001

J+ 0;

10420100 T 0002

IF A OR B THEN TEMP[1] + TEMP[1]+2 ELSE TEMP[1] + TEMP[1]+3;

10420110 T 0003

IF A AND B THEN TEMP[2] + TEMP[2]+7 ELSE TEMP[2] + TEMP[2]+8;

10420120 T 0011

IF X≥4 OR Y=7 THEN TEMP[3] + TEMP[3]+9 ELSE IF A AND B THEN

10420130 T 0019

TEMP[3] + TEMP[3]+11 ELSE TEMP[3] + TEMP[3]+12;

10420140 T 0025

IF A AND B THEN TEMP[4] + TEMP[4]+17 ELSE IF X=Y THEN

10420150 T 0032

TEMP[4] + TEMP[4]+18 ELSE TEMP[4] + TEMP[4]+19; 10420160 T 0038

1 IF IF A OR B THEN X=Y ELSE X>Y THEN TEMP[5] + TEMP[5]+24 ELSE 10420170 T 0045

2 TEMP[5] + TEMP[5]+25; 10420180 T 0051

3 IF A THEN GO TO BAKE; 10420190 T 0055

4 J+ J+1; 10420200 T 0056

5 BAKE: IF B THEN TEMP[6] + TEMP[6]+32 ELSE TEMP[6] + TEMP[6]+33; 10420210 T 0057

6 IF X=3 THEN GO TO MANNY ELSE IF X=4 THEN GO TO MOE 10420220 T 0064

7 ELSE GO TO JACK; 10420230 T 0067

8 J + J+100; 10420240 T 0068

9 MANNY: TEMP[7] + TEMP[7]+38; 10420250 T 0069

10 GO TO LAST; 10420260 T 0073

11 MOE: TEMP[7] + TEMP[7]+39; 10420270 T 0073

12 GO TO DOG; 10420280 T 0077

13 JACK: TEMP[7] + TEMP [7]+40; 10420290 T 0077

14 J+ J+3; 10420300 T 0081

15 IF A THEN DOG: TEMP[8] + TEMP[8]+98 ELSE TEMP[8] + TEMP[8]+99; 10420310 T 0082

16 GO TO EASY; 10420320 T 0089

17 J+ J+5; 10420330 T 0090

18 IF B THEN TEMP[9] + TEMP[9]+300 ELSE IF A THEN 10420340 T 0091

19 EASY: TEMP[9]+ TEMP[9]+301 ELSE TEMP[9] + TEMP[9]+302; 10420350 T 0095

20 GO TO FOX; 10420360 T 0103

21 J+ J+7; 10420370 T 0104

22 IF A THEN TEMP[10]+ TEMP[10]+600 ELSE IF B THEN 10420380 T 0105

23 FOX: TEMP[10] + TEMP[10]+601 ELSE TEMP[10]+ TEMP[10]+602; 10420390 T 0109

24 GO TO LAST; 10420400 T 0117

25 J+ J+9; 10420500 T 0118

26 LAST: TEMP[11] + J; 10420510 T 0119

27 FILL ANS[*] WITH OCT2, OCT10, OCT11, OCT22, OCT30, OCT41, 10420520 T 0121

START OF SEGMENT ***** 109

OCT47, OCT142, OCT455, OCT1131, OCT0; 10420530 T 0123

CVN← 11;

10420540 T 0123

PNO← 42;

10420550 T 0124

VERIFY

10420560 T 0125

END;

10420570 T 0125

108 T S 129 LONG, NEXT SEG 10

PROCEDURE P43; COMMENT IF FOR STATEMENT JW 31 OCT 62;

10430010 T 0174

BEGIN

10430020 T 0174

BOOLEAN A,B;

10430030 T 0174

START OF SEGMENT ***** 110

INTEGER Y,Z;

10430040 T 0000

A← TRUE;

10430050 T 0000

B← FALSE;

10430060 T 0000

Z ← Y + 0;

10430070 T 0001

IF A THEN FOR Y ← Y+1 STEP 1 UNTIL 5 DO TEMP[1] ← TEMP[1]+5;

10430080 T 0002

IF B THEN FOR Z ← Z+1 STEP 1 UNTIL 3 DO TEMP[2] ← TEMP[2]+3;

10430090 T 0011

TEMP[2]← TEMP[2]+4;

10430100 T 0019

FILL ANS[*] WITH OCT31, OCT4;

10430120 T 0022

START OF SEGMENT ***** 111

111 T S 2 LONG, NEXT SEG 110

CVN ← 2;

10430120 T 0024

PNO← 43;

10430130 T 0025

VERIFY

10430140 T 0026

END;

10430150 T 0026

110 T S 29 LONG, NEXT SEG 10

PROCEDURE P44; COMMENT FOR STATEMENT USING THE ARITH. EXP. ELEMENT ;

10440010 T 0174

BEGIN

10440020 T 0174

REAL A,B,C;

10440030 T 0174

START OF SEGMENT ***** 112

INTEGER D;

10440040 T 0000

INTEGER PROCEDURE THREE(FAEX);

10440050 T 0000

INTEGER FAEX;

10440060 T 0000

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BEGIN

10440070 T 0000

THREE+ FAEX + 2 ;

10440080 T 0000

END;

10440090 T 0001

A+ 27.2; B+ 20; C+ 5.5; TEMP[1]+5.5; TEMP[2]+ 7; D+ 2732;

10440100 T 0003

FOR C+ 2+3 DO TEMP[3]+ C+5;

10440110 T 0010

FOR C+ B-A DO TEMP[4]+ C-2 ;

10440120 T 0020

FOR C+ TEMP[1] + TEMP[2] DO TEMP[5]+ C;

10440130 T 0025

FOR C+ D.[44:2] + D.[40:3] DO TEMP[6] + C-8;

10440140 T 0032

FOR C+ + D.[44:4] + (-D.[45:3]) DO TEMP[7] + C;

10440150 T 0039

FOR C+ THREE(0) * THREE(2) * D.[44:4] DO TEMP[8] + C;

10440160 T 0045

FOR C+ "AB"/ "A" DO TEMP[9]+ C-0.05882352941;

10440170 T 0053

FOR C+ "AB" MOD "A" DO TEMP[10]+ C-1;

10440180 T 0061

FOR C+ "AB" DIV THREE(2120) DO TEMP[11]+ C;

10440190 T 0068

FOR C+ C+2 DO TEMP[12]+ C;

10440200 T 0076

FILL ANS[*] WITH OCT1145400000000000, OCT7, OCT12,

10440210 T 0081

START OF SEGMENT ***** 113

OCT3131114631463146, OCT1010000000000144,

10440220 T 0083

OCT0, OCT10, OCT140, OCT101, OCT0, OCT0,

10440230 T 0083

OCT2;

10440240 T 0083

113 T S 12 LONG, NEXT SEG 112

CVN+ 12;

10440250 T 0083

PNO+ 44;

10440260 T 0083

VERIFY

10440270 T 0084

END;

10440280 T 0084

112 T S 88 LONG, NEXT SEG 10

PROCEDURE P45; COMMENT FOR STATEMENT USING STEP UNTIL ELEMENT;

10450010 T 0174

BEGIN

10450020 T 0174

REAL A, B, C;

10450030 T 0174

START OF SEGMENT ***** 114

INTEGER I, O;

10450040 T 0000

	REAL PROCEDURE CHECK(I);	10450045 T 0000
1	REAL I;	10450046 T 0000
2	BEGIN	10450047 T 0000
3	CHECK+1; I+I+2;	10450048 T 0000
4	END;	10450049 T 0002
5	INTEGER PROCEDURE FOUR (FSU);	10450050 T 0004
6	INTEGER FSU;	10450060 T 0004
7	BEGIN FOUR + FSU + 2 ; END;	10450070 T 0004
8	INTEGER PROCEDURE THREE(FAEX);	10450071 T 0008
9	INTEGER FAEX;	10450072 T 0008
10	BEGIN	10450073 T 0008
11	THREE+ FAEX + 2 ;	10450074 T 0008
12	END;	10450075 T 0010
13	A+ 25.5 ; B+ 20; C+ 3.5; TEMP[1] + 3.5; TEMP[2]+ 7;	10450080 T 0012
14	D+2732; I+5;	10450090 T 0018
15	FOR C + 2+1 STEP 1 UNTIL 5 DO TEMP[3]+ C;	10450100 T 0020
16	FOR C + B*A STEP (-C/5 + I) UNTIL A+B DO BEGIN I+I+3;	10450110 T 0030
17	TEMP[4] + C; END;	10450111 T 0039
18	FOR C+ TEMP[1]+TEMP[2] STEP TEMP[1] UNTIL 14 DO	10450120 T 0041
19	TEMP[5]+ C;	10450130 T 0050
20	FOR C+ D.[44:2] + D.[40:3] STEP 1 UNTIL D.[44:4] DO	10450140 T 0052
21	TEMP[6]+ C;	10450150 T 0058
22	FOR C+ D.[44:4]+(-D.[45:3]) STEP D. [45:1] UNTIL	10450160 T 0060
23	D.[36:4] DO	10450170 T 0066
24	TEMP[7]+ C ;	10450180 T 0069
25	FOR C+ FOUR (2) * FOUR (0) STEP 5 UNTIL FOUR (16) DO	10450190 T 0071
26	TEMP[8]+ C;	10450200 T 0077
27	FOR C+ "AB"/2 STEP "A" UNTIL ("A"* 10)+ 1061 DO	10450210 T 0079
28	TEMP[9]+ C;	10450220 T 0085
29	FOR C+ "AB" MOD "A" STEP 1 UNTIL "A" DO TEMP [10]+ C;	10450230 T 0090
30	FOR C+ "AB" DIV THREE (2120) STEP D. [45:1] UNTIL	10450240 T 0098

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THREE(0) DO                                10450250 T 0103
TEMP[11]+ C;                                10450260 T 0106
C+TEMP[11];                                  10450265 T 0111
FOR C+C+THREE(2) STEP 1 UNTIL C.[44:3]+THREE(C.[45:3]-1) DO 10450270 T 0112
TEMP[12]+C;                                  10450275 T 0122
FOR C+FOUR(2) STEP 2 UNTIL 15 DO C+CHECK(B);TEMP[13]+B;    10450276 T 0124
FILL ANS[*] WITH OCT1010000000000034, OCT7, OCT5,          10450280 T 0132
                                                                START OF SEGMENT ***** 115
OCT1134505246230276,      OCT16, OCT14, OCT12, OCT22,      10450290 T 0134
OCT2300, OCT21, OCT2, OCT7, OCT26;                          10450300 T 0134
                                                                115 ,S 13 LONG, NEXT SEG 114
CVN+13;                                                       10450310 T 0134
PNO ← 45;                                                       10450320 T 0135
VERIFY                                                         10450330 T 0135
END;                                                           10450340 T 0135
                                                                114 ,S 140 LONG, NEXT SEG 110
PROCEDURE P46; COMMENT FOR STATEMENT USING THE WHILE ELEMENT ; 10460010 T 0174
BEGIN                                                         10460020 T 0174
REAL E,F,C;                                                  10460030 T 0174
                                                                START OF SEGMENT ***** 116
BOOLEAN A,B;                                                 10460040 T 0000
INTEGER D,G;                                                  10460050 T 0000
INTEGER PROCEDURE FIVE (FWS);                                10460060 T 0000
INTEGER FWS;                                                  10460070 T 0000
BEGIN FIVE ← FWS × FWS END;                                  10460080 T 0000
E+15.5; F+10; G+5.5; D+2732; A+TRUE;                          10460090 T 0003
B+ FALSE;                                                      10460100 T 0007
TEMP[1]+ 17; TEMP[2]+ 7;                                       10460110 T 0008
FOR C← 2+1 WHILE A OR B DO BEGIN A← FALSE;                    10460120 T 0012
TEMP[3]+ C END;                                               10460130 T 0016
FOR C← F-E WHILE A OR B DO TEMP[4]+ C; A← TRUE;              10460140 T 0022

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TEMP[G-1]+5; 10460150 T 0028
FOR C+ = TEMP[1] WHILE A AND B OR A DO BEGIN 10460160 T 0030
A+ FALSE; TEMP[G]+ C 10460170 T 0034
END; 10460180 T 0036
FOR C+ D.[44:2] + D.[40:3] WHILE 10460190 T 0037
A EQV B EQV B EQV B DO BEGIN 10460200 T 0040
IF A THEN A+ FALSE ELSE A+ TRUE; TEMP[7]+ C END; 10460210 T 0043
FOR C + FIVE (3) + FIVE (3) WHILE NOT B DO BEGIN IF 10460220 T 0048
A THEN 10460230 T 0052
TEMP[8]+ C ELSE TEMP[8]+ 0; B+ TRUE END; 10460240 T 0052
A+ TRUE; B+ FALSE; 10460250 T 0058
FOR C+ "AB" MOD "A" WHILE (A OR B ) OR B DO 10460260 T 0059
BEGIN A+ FALSE; 10460270 T 0063
TEMP[9] + C x 10 + FIVE (3) END; 10460280 T 0064
FOR C+ "AB" DIV 11 WHILE A IMP B DO BEGIN 10460290 T 0069
FOR G+ 190 STEP 1 UNTIL 10460300 T 0072
193 DO G+ G; TEMP[10]+ C+G; A+ TRUE END; 10460310 T 0072
FILL ANS[*] WITH OCT21, OCT7, OCT3, OCT0, 10460320 T 0081
START OF SEGMENT ***** 117
OCT5, OCT20000000000000021, 10460330 T 0083
OCT10, OCT22, OCT23, OCT446, OCT23, OCT602; 10460340 T 0083
117 T,S 12 LONG, NEXT SEG 116
CVN + 10; 10460360 T 0083
PNO + 46 ; 10460370 T 0084
VERIFY 10460380 T 0084
END; 10460390 T 0084
116 T,S 89 LONG, NEXT SEG 10
PROCEDURE P47; COMMENT THE FOR STATEMENT USING THE STEP WHILE ELEMENT; 10470010 T 0174
BEGIN 10470020 T 0174
REAL E,F,C; 10470030 T 0174

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1      BOOLEAN A,B;                                10470040 T 0000
2
3      INTEGER D, G;                                10470050 T 0000
4
5      INTEGER PROCEDURE SIX(FSW);                  10470060 T 0000
6
7      INTEGER FSW;                                10470070 T 0000
8
9      BEGIN SIX← (FSW +2)× FSW END;                10470080 T 0000
10
11     E← 6.5; F← 5; C← 7.5; D← 2732 ; A← TRUE; B← FALSE; 10470090 T 0004
12
13     G←3;                                          10470100 T 0009
14
15     TEMP[1]← 15 ; TEMP [2]← 5;                   10470110 T 0010
16
17     FOR C← 3 STEP 1 WHILE A OR B DO BEGIN G← G-1 ; 10470120 T 0013
18
19     A← BOOLEAN(G.[46:1]);                          10470130 T 0019
20
21     TEMP[3]← C END; A← TRUE; G← 0;                 10470140 T 0020
22
23     FOR C← F-E STEP-E WHILE A AND B OR A DO BEGIN 10470150 T 0027
24
25     G←G + ENTIER ((E - F)+2);                       10470160 T 0032
26
27     A← BOOLEAN (G.[45:1]+1); TEMP[4]←C + D.[45:2] END; G← 0; 10470170 T 0035
28
29     A←TRUE;                                         10470175 T 0042
30
31     FOR C← TEMP[1] + TEMP[2] STEP TEMP[2] WHILE A IMP B EQV B DO 10470180 T 0043
32
33     BEGIN G← G + SIX(2); A← BOOLEAN (G.[43:1]);     10470190 T 0052
34
35     TEMP[5]← G + TEMP[1] END;                       10470200 T 0055
36
37     FOR C← SIX (3) + D.[45:3] STEP SIX (0) WHILE NOT A DO 10470210 T 0058
38
39     BEGIN A←TRUE;                                    10470220 T 0065
40
41     TEMP[6] ← C + E MOD F END; G← 0;                10470230 T 0065
42
43     FOR C← "AB" MOD "A" STEP "A" WHILE (A OR B) OR B DO 10470240 T 0069
44
45     BEGIN                                           10470245 T 0074
46
47     G← G + SIX (0) +                                10470250 T 0074
48
49     ("A" MOD 9) ; A← BOOLEAN (G.[43:1]); A← NOT A; 10470260 T 0076
50
51     TEMP[7]← C MOD 100 END;                          10470270 T 0079
52
53     FILL ANS [*] WITH OCT17, OCT5, OCT4,           10470280 T 0084

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55     OCT20000000000000000006,                      10470290 T 0085

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56     OCT27, OCT10100000000000244, OCT22;          10470300 T 0085

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CVN+ 7;

10470310 T 0085

PND+ 47;

10470320 T 0086

VERIFY

10470330 T 0087

END;

10470340 T 0087

PROCEDURE P48; COMMENT FOR STATEMENT CONTROL VARIABLE GO TO

10480010 T 0174

CONSTRUCT;

10480020 T 0174

BEGIN

10480030 T 0174

LABEL PNT1, PNT2, PNT3, PNT4, PNT5;

10480040 T 0174

INTEGER D, H, J;

10480045 T 0000

REAL C, E, F, G;

10480050 T 0000

BOOLEAN A, B;

10480060 T 0000

INTEGER PROCEDURE EIGHT (FGT) ;

10480070 T 0000

INTEGER FGT;

10480080 T 0000

BEGIN EIGHT+ FGT. [45:3] END;

10480090 T 0000

E+ 15.5; F+ 7.5; C+2.0; A+ TRUE; B+ FALSE; D+ 2732; G+ 2;

10480100 T 0003

TEMP[1]+ 15; TEMP[2]+ 3; H+ 4; J+ 10;

10480110 T 0009

FOR C+ TEMP[2] STEP 2 UNTIL TEMP[1] DO BEGIN C+ C+TEMP[1];

10480120 T 0014

GO TO PNT1 END; G+G+1 ; TEMP[G]+ 5;

10480130 T 0021

PNT1: G+G+1; TEMP[G]+ C;

10480140 T 0029

FOR C+ F-E STEP H UNTIL J DO BEGIN H+ H+1; J+ J+1;

10480150 T 0033

IF H ≥ 8 THEN GO TO PNT2 END; G+G+1; TEMP[G]+ 6;

10480160 T 0040

PNT2: G+G +1; TEMP[G]+ C;

10480170 T 0045

FOR C+ EIGHT(TEMP[1]+TEMP[2]) STEP F WHILE A OR B DO BEGIN

10480180 T 0049

C+ C + 5; IF

10480190 T 0058

C≥14 THEN GO TO PNT3 END;

10480200 T 0059

PNT3: G+ G+1; TEMP[G]+ C; H+ 4;

10480210 T 0061

FOR C+ E.[12:3] WHILE A OR B DO BEGIN H+ H+1; IF H>6 THEN

10480220 T 0065

	PAT4: G← G+1; TEMP[G]← C+H;	10480240 T 0072
1	FOR C← 2 STEP 1 UNTIL 5 DO FOR C← C+5 STEP 1 UNTIL 15 DO BEGIN	10480250 T 0075
2		
3	IF C213 THEN GO TO PNT5 END ;	10480270 T 0081
4		
5	PAT5: G←G+1; TEMP[G]← C ;	10480280 T 0085
6		
7	FILL ANS[*] WITH OCT17, OCT3, OCT22, OCT12,	10480290 T 0089
8		
9		START OF SEGMENT ***** 121
10		
11	OCT101000000000234, OCT16, OCT15;	10480300 T 0090
12		
13		121 rS 7 LONG, NEXT SEG 120
14		
15	CVN← 7;	10480310 T 0090
16		
17	PAD← 48;	10480320 T 0091
18		
19	VERIFY	10480330 T 0092
20		
21	END;	10480340 T 0092
22		
23		120 rS 97 LONG, NEXT SEG 10
24		
25	PROCEDURE P50; COMMENT VALUE ASSIGNMENT - PROCEDURE CALLED BY VALUE	10500010 T 0174
26		
27	EK 18 NOV 62;	10500020 T 0174
28		
29	BEGIN	10500030 T 0174
30		
31	INTEGER X1,X2,X3,X4,X5,N,J,I;	10500040 T 0174
32		
33		START OF SEGMENT ***** 122
34		
35	ARRAY A[1:3], B[1:3];	10500050 T 0000
36		
37	BOOLEAN T;	10500060 T 0003
38		
39	LABEL TEST, TAG, CALL;	10500070 T 0003
40		
41		
42	INTEGER PROCEDURE FUNC(A,X3, N);	10500080 T 0003
43		
44	ARRAY A[1];	10500085 T 0003
45		
46	INTEGER X3,N;	10500087 T 0003
47		
48	BEGIN	10500090 T 0003
49		
50	FUNC ← (A[1]-X3)×N	10500100 T 0003
51		
52	END;	10500110 T 0005
53		
54	PROCEDURE VASSIG(FP1,FP2,FP3,FP4,FP5,FP6,FP7,FP8,FP9,FP10,FP11,	10500120 T 0008
55		
56	FP12,FP13,FP14,FP15,FP16,FP19,FP20,FP21,FP22,FP23,FP24,	10500130 T 0008
57	FP25);	10500140 T 0008

VALUE FP1,FP2,FP3,FP4,FP5,FP6,FP7; & REMOVED FP8 03-06-68 CEL

10500150 T 0008

1 INTEGER FP1,FP2, FP3,FP4,FP5,FP9,FP10,FP11,FP12,FP13,

10500160 T 0008

2
3 FP15,FP19,FP20,FP21,FP22,FP23,FP25,FP7;

10500165 T 0008

4
5 BOOLEAN FP6,FP14,FP24;

10500170 T 0008

6
7 ARRAY FP8[1], FP16[1];

10500190 T 0008

8
9 BEGIN

10500200 T 0008

10
11 LABEL FP7; INTEGER I;

10500210 T 0008

12
13 START OF SEGMENT ***** 123

14
15 COMMENT WHEN ALGOL IMPLEMENTS GO TO NON LOCAL LABELS

10500215 T 0000

16
17 THE ORIGINAL MEANING OF THIS LABEL DECLARATION

10500217 T 0000

18
19 SHOULD NE EXPLORED, SEE NOTES,;

10500219 T 0000

20
21 FP9 + FP1;

10500220 T 0000

22
23 FP10 + FP2;

10500230 T 0001

24
25 FP11 + FP3 ;

10500240 T 0002

26
27 FP12 + FP4;

10500250 T 0003

28
29 FP13 + FP5;

10500260 T 0004

30
31 FP14 + FP6;

10500270 T 0005

32
33 GO TO FP7;

10500280 T 0006

34
35 FP7: FP15 + 4095;

10500290 T 0006

36
37 FOR I + 1 STEP 1 UNTIL 3 DO FP8 [I] + 7;

10500300 T 0008

38
39 FP1 + 2;

10500310 T 0014

40
41 FP2 + 8;

10500320 T 0014

42
43 FP3+FP2,[45:3];

10500330 T 0015

44
45 FP4 + FP4 x FP1;

10500340 T 0016

46
47
48 FP5 + (FP2-FP1x3)x FP1;

10500350 T 0018

49
50 FP6 + FALSE;

10500360 T 0020

51
52 FOR I + 1 STEP 1 UNTIL 3 DO FP16[I] + FP8[I];

10500370 T 0021

53
54 FP19 + FP1;

10500380 T 0026

55
56 FP20 + FP2;

10500390 T 0027

57
58 FP21 + FP3;

10500400 T 0028

Data Documents/Inc.

FP22 + FP4;

10500410 T 0029

FP23 + FP5;

10500420 T 0030

FP24 + FP6;

10500430 T 0031

FP25 + FP8[2]

10500440 T 0032

END;

10500450 T 0033

123 rS 37 LONG, NEXT SEG 122

INTEGER PROCEDURE FUNK(X4,X5);

10500460 T 0008

INTEGER X4, X5;

10500465 T 0008

BEGIN

10500470 T 0008

X4 + X4+2;

10500480 T 0008

X5 + X5+1;

10500490 T 0010

FUNK + X4+ X5

10500500 T 0012

END;

10500510 T 0012

PROCEDURE VALORD(F1,F2,F3,F4,F5,F6,F7,F8,F9,F10);

10500520 T 0015

VALUE F3,F4,F5,F1,F2;

10500530 T 0015

INTEGER F1,F2,F3,F4,F5,F6,F7,F8,F9,F10;

10500540 T 0015

BEGIN

10500550 T 0015

F6 + F1;

10500560 T 0015

F7 + F2;

10500570 T 0017

F8 + F3;

10500580 T 0018

F9 + F4;

10500590 T 0019

F10 + F5

10500600 T 0020

END;

10500610 T 0020

PROCEDURE CALORD(G1,G2,G3,G4,G5,G6,G7,G8,G9,G10);

10500620 T 0021

VALUE G1,G2,G3,G4,G5;

10500630 T 0021

INTEGER G1, G2, G3, G4, G5, G6, G7, G8, G9, G10;

10500640 T 0021

BEGIN

10500650 T 0021

G6 + G1;

10500660 T 0021

G7 + G2;

10500670 T 0023

G8 + G3;

10500680 T 0024

	G9 + G4;	10500690 T 0025
1	G10 + G5	10500700 T 0026
2		
3	END;	10500710 T 0026
4		
5	X1 + 4;	10500720 T 0027
6		
7	X2 + X3 + 2;	10500730 T 0028
8		
9	A[1] + A[2] + A[3] + 5;	10500740 T 0030
10		
11	COMMENT *****KLUGE CARD REMOVE LATER *****; B[1] + 1;	10500745 T 0034
12		
13	N + 1;	10500750 T 0036
14		
15	J + 1;	10500760 T 0037
16		
17	CALL:VASSIG(N,A[3],X3,[45:3],FUNC(A,X3,N), (X2 +FUNC(A,X3,N))x A[1],	10500770 T 0038
18		
19	IF X1>X2 THEN TRUE ELSE FALSE, N, A, TEMP[1], TEMP[2],	10500780 T 0045
20		
21	TEMP[3], TEMP[4], TEMP[5], T, TEMP[7], B, TEMP[11],	10500790 T 0050
22		
23	TEMP[12],TEMP[13],TEMP[14],TEMP[15],NOT T,TEMP[17]);	10500800 T 0056
24		
25	FOR I + 1 STEP 1 UNTIL 3 DO TEMP[I+7] + B[I];	10500810 T 0065
26		
27	IF J > 1 THEN GO TO TAG ELSE	10500820 T 0072
28		
29	FOR I + 1 STEP 1 UNTIL 18 DO TEMP[I+17] + TEMP[I];	10500830 T 0073
30		
31	N + 2;	10500840 T 0080
32		
33	X1 + 3;	10500850 T 0081
34		
35		
36	X2 + 4;	10500860 T 0081
37		
38	X3 + 1;	10500870 T 0082
39		
40	A[1]+ A[2] +A[3] + 6;	10500880 T 0083
41		
42	J + J+1;	10500890 T 0088
43		
44	GO TO CALL;	10500900 T 0089
45		
46	TAG: X4 + X5 + 1;	10500910 T 0089
47		
48	CALORD(X4,X5,FUNK(X4,X5),X4+1,X5x2,TEMP[35],TEMP[36],TEMP[37],	10500920 T 0091
49		
50	TEMP[38], TEMP[39]);	10500930 T 0097
51		
52	VALORD(X4,X5,FUNK(X4,X5),X4+1,X5x2,TEMP[40],TEMP[41],TEMP[42],	10500940 T 0099
53		
54	TEMP[43], TEMP[44]);	10500950 T 0106
55		
56	FILL ANS[*] WITH OCT2, OCT6, OCT1, OCT12, OCT124, OCT0,	10500961 T 0108
57		

Data Documents/Inc.

OCT7777, OCT7, OCT7, OCT7, OCT2, OCT10, OCT0, OCT24, 10500971 T 0110

OCT4, OCT0, OCT7, OCT1, OCT5, OCT2, OCT3, OCT31, 10500981 T 0110

OCT0, OCT7777, OCT7, OCT7, OCT7, OCT2, OCT10, OCT0, 10500991 T 0110

OCT6, OCT4, OCT0, OCT7, OCT1, OCT1, OCT5, OCT4, 10501001 T 0110

OCT4, OCT3, OCT2, OCT10, OCT6, OCT6; 10501011 T 0110

124 TS 44 LONG, NEXT SEG 122

CVN + 44; 10501020 T 0110

PNO + 50; 10501030 T 0110

VERIFY 10501040 T 0111

END; 10501050 T 0111

122 TS 118 LONG, NEXT SEG 10

PROCEDURE P51; COMMENT CALL BY NAME FORMAL PARAMETERS 4.7.3.2 10510010 T 0174

NOV 20 1962 KM.; 10510020 T 0174

BEGIN 10510030 T 0174

LABEL LAB, LAB1, LAB3, LAB4, L1, L2, LAB5, LAB2, LAB6; 10510040 T 0174

START OF SEGMENT ***** 125

INTEGER B, C, D, E, F, G, H; 10510050 T 0000

LABEL SPECLAB1, SPECLAB2; COMMENT REMOVE LATER MAY 6 1963; 10510055 T 0000

BOOLEAN LUOB; 10510070 T 0000

ARRAY ARAE [1:10]; 10510080 T 0000

SWITCH SWCH LAB3, LAB, LAB1, LAB2, LAB4; 10510090 T 0001

PROCEDURE ABC (C, ARY1); 10510100 T 0008

INTEGER C; 10510110 T 0008

ARRAY ARY1 [1]; 10510120 T 0008

BEGIN 10510130 T 0008

FOR C+C STEP 1 UNTIL (C+(10-C)) DO ARY1[C] +C; 10510150 T 0008

END; 10510155 T 0016

INTEGER PROCEDURE DEF (GHJ); 10510160 T 0017

INTEGER GHJ; 10510170 T 0017

BEGIN 10510180 T 0017

Data Documents/Inc.

DEF + GHJ+ (GHJ-1);

10510190 T 0017

END;

10510200 T 0018

REAL PROCEDURE SPR1 (STFORM);

10510210 T 0021

REAL STFORM;

10510215 T 0021

BEGIN

10510220 T 0021

SPR1 ← 7 MOD STFORM ;

10510230 T 0021

END;

10510240 T 0023

PROCEDURE CALL (P1,P2,P3,P4,P5,P6,P7,P8,P9,P10,P11,P12,P13,P14,
P17,P18);

10510250 T 0025

10510260 T 0025

INTEGER P2, P5, P6, P10, P12;

10510270 T 0025

BOOLEAN P3;

10510280 T 0025

REAL PROCEDURE P11;

10510285 T 0025

PROCEDURE P8, P17, P18;

10510290 T 0025

INTEGER PROCEDURE P9;

10510295 T 0025

ARRAY P4[1];

10510300 T 0025

SWITCH P7;

10510310 T 0025

LABEL P13, P14;

10510320 T 0025

REAL P1;

10510330 T 0025

COMMENT P8 IS PROCEDURE ABC

10510331 T 0025

P17 IS PROCEDURE PRA

10510332 T 0025

P18 IS PROCEDURE PRO

10510333 T 0025

P9 IS PROCEDURE DEF

10510334 T 0025

P11 IS PROCEDURE SPR1 ;

10510335 T 0025

BEGIN

10510340 T 0025

INTEGER Q1;

10510350 T 0025

START OF SEGMENT ***** 126

LABEL LBL1, LBL2;

10510360 T 0000

Q1 ← 3;

10510370 T 0000

P1 ← IF P3 THEN (P1 + Q1) ELSE (P1 + 2);

10510380 T 0000

FUR Q1 ← 2 STEP 1 UNTIL 5 DO P2 ← P2+Q1;

10510390 T 0004

IF P3 THEN P3← FALSE ELSE P3← TRUE;

10510400 T 0008

P8(4,P4); P5← P4[4]; P6← P4[4] + P5 ;

10510410 T 0012

P17(P3,P7,P4, LBL1);

10510420 T 0017

LBL1:P4[1]← P9(P10);

10510430 T 0021

P12←P11(P12);

10510440 T 0023

COMMENT KLUGE CARD REMOVE LATER *****; P4[1] ← P4[1] ;

10510445 T 0025

P18(LBL2,P4,P3);

10510450 T 0027

LBL2:END;

10510460 T 0030

126 rS 36 LONG, NEXT SEG 125

PROCEDURE PRA(BOL, SW,ARY,LBL);

10510470 T 0025

BOOLEAN BOL;

10510480 T 0025

SWITCH SW;

10510490 T 0025

LABEL LBL;

10510500 T 0025

ARRAY ARY[1];

10510510 T 0025

BEGIN LABEL LAB1, LAB2,L1;

10510520 T 0025

START OF SEGMENT ***** 127

GO TO IF BOL THEN LAB1 ELSE LAB2;

10510530 T 0000

LAB1: ARY[2]←5; GO TO L1;

10510540 T 0004

LAB2: ARY[2]← 10;

10510550 T 0007

L1: GO TO LBL

10510560 T 0009

END;

10510570 T 0010

127 rS 15 LONG, NEXT SEG 125

PROCEDURE PRO(LBLL,ARY,BLO);

10510580 T 0025

LABEL LBLL;

10510590 T 0025

ARRAY ARY[1];

10510600 T 0025

BOOLEAN BLO;

10510610 T 0025

BEGIN

10510620 T 0025

LABEL L2, LAB3,LAB4;

10510630 T 0025

START OF SEGMENT ***** 128

GO TO IF BLO THEN LAB3 ELSE LAB4;

10510640 T 0000

LAB3: ARY[3]← 5; GO TO L2;

10510650 T 0004

LAB4: ARRY[3]+ 10;

10510660 T 0007

L2: GO TO LBL1

10510670 T 0009

END;

10510680 T 0010

128 T S 15 LONG, NEXT SEG 125

DEFINE A1 = (23/2) +(E-1)#;

10510685 T 0025

B + 23; LOOB+ TRUE; E+ 5 MOD 3; F+10;

10510690 T 0025

COMMENT CLUGE CARD REMOVE LATER; ARAE[1] + ARAE[1] ;

10510700 T 0029

COMMENT CLUGE CARD REMOVE LATER, THIS WAS INSERTED TO GET AROUND

10510705 T 0032

***** PRESENCE BIT FOR PROCEDURE PRA AND PRO WHICH ARE MARKED ABSENT

10510710 T 0032

***** IN THE STACK FOR PROCEDURE CALL, MAY2, 1963;

10510715 T 0032

PRA(LOOB,SWCH,ARAE,SPECLAB1); COMMENT *** REMOVE MAY 6 1963;

10510720 T 0032

SPECLAB1: LOOB+TRUE; PRO(SPECLAB2,ARAE,LOOB); COMMENT REMOVE 6ATER;

10510725 T 0037

SPECLAB2: COMMENT REMOVE LATER MAY 6 1963;

10510727 T 0041

CALL(A1, B,LOOB,ARAE,C,D,SWCH,ABC,DEF,E,SPR1,F,

10510730 T 0042

IF TRUE THEN LAB3 ELSE LAB5, IF FALSE THEN LAB6 ELSE

10510740 T 0053

SWCH[5], PRA,PRO);

10510750 T 0063

G+ DEF(DEF(3));

10510760 T 0068

TEMP[1]+A1; TEMP[2]+B; TEMP[3]+REAL(LOOB,[47:1]);

10510770 T 0073

FOR H+ 4 STEP 1 UNTIL 10 DO TEMP[H] + ARAE[H];

10510780 T 0080

TEMP[11]+C; TEMP[12]+D;TEMP[13]+ARAE[2];TEMP[14]+ARAE[1];

10510790 T 0086

TEMP[15]+ F; TEMP[16]+ ARAE[3]; TEMP[17]+ G;

10510800 T 0095

LAB: LAB1: LAB2: LAB3: LAB4:

10510805 T 0101

LAB6: LAB5:

10510806 T 0102

FILL ANS [*] WITH OCT1010000000000144, OCT45, OCT0,

10510810 T 0102

START OF SEGMENT ***** 129

OCT4,OCT5, OCT6, OCT7, OCT10, OCT11, OCT12,

10510820 T 0103

OCT4,OCT10, OCT12, OCT3, OCT7,OCT12, OCT11;

10510830 T 0103

129 T S 17 LONG, NEXT SEG 125

CVN + 17;

10510850 T 0103

PNO + 51;

10510860 T 0104

VERIFY

10510870 T 0105

END ;

10510880 T 0105

125 YS 112 LONG, NEXT SEG 10

PROCEDURE P52; COMMENT THE READ STATEMENT IN EXTENDED ALGOL;

10520010 T 0174

BEGIN

10520020 T 0174

FORMAT OUT READWRITE (X10, "THE READ STATEMENT OF ALGOL",

10520030 T 0174

START OF SEGMENT ***** 130

START OF SEGMENT ***** 131

" WITH ALL ITS VARIOUS CONSTRUCTS OF"),

10530040 T 0000

SECONDLINE (X10, "READ, SPACE, ETC HAS BEEN WRITTEN AS A SPECI"

10520050 T 0000

, "AL ROUTINE BY JOHN SKELTON,"),

10520060 T 0000

THIRDLINE (X10, "TO TEST THESE ALGOL CONSTRUCTS THE I/O",X1

10520070 T 0000

"PACKAGE IS TO BE USED");

10520080 T 0000

131 YS 48 LONG, NEXT SEG 130

FORMAT OUT FIRSTLINE (X10,"TEST PROCEDURE NO. 052 4.8",

10520090 T 0000

START OF SEGMENT ***** 132

".2.3 EXTENDED ALGOL READ STATEMENT");

10520100 T 0000

132 YS 16 LONG, NEXT SEG 130

WRITE (FNOK[DBL],FIRSTLINE);

10520110 T 0000

WRITE (FNOK[DBL],READWRITE);

10520120 T 0003

WRITE (FNOK[DBL],SECONDLINE);

10520130 T 0006

WRITE (FNOK[DBL],THIRDLINE);

10520140 T 0009

END;

10520150 T 0012

130 YS 13 LONG, NEXT SEG 10

PROCEDURE P53; COMMENT THE WRITE STATEMENT IN EXTENDED ALGOL;

10530010 T 0174

BEGIN

10530020 T 0174

FORMAT OUT FIRSTONE(X10, "TEST PROCEDURE NO. 053 4.8",

10530030 T 0174

START OF SEGMENT ***** 133

START OF SEGMENT ***** 134

".3.3 EXTENDED ALGOL WRITE STATEMENT");

10530040 T 0000

WRITENOTE (X10,"THE WRITE STATEMENT OF ALGOL WITH",

10530050 T 0000

" ALL ITS VARIOUS CONSTRUCTS OF"),

10530060 T 0000

Data Documents/Inc.

WRITETWO(X10, "WRITE,SPACE,ETC. HAS BEEN WRITTEN",

10530070 T 0000

" AS A SPECIAL ROUTINE BY JOHN SKELTON,"),

10530080 T 0000

WRITELAST(X10,"TO TEST THESE ALGOL CONSTRUCTS THE",

10530090 T 0000

" I/O PACKAGE IS TO BE USED");

10530100 T 0000

134 rS 63 LONG, NEXT SEG 133

WRITE(FNOK(DBL),FIRSTONE);

10530110 T 0000

WRITE(FNOK(DBL),WRITENOTE);

10530120 T 0003

WRITE(FNOK(DBL),WRITETWO);

10530130 T 0006

WRITE(FNOK(DBL),WRITELAST);

10530140 T 0009

END;

10530150 T 0012

133 rS 13 LONG, NEXT SEG 10

PROCEDURE P55; COMMENT FILL STATEMENT EK 12 NOV 62;

10550010 T 0174

BEGIN

10550020 T 0174

INTEGER ARRAY INT[1:2];

10550030 T 0174

START OF SEGMENT ***** 135

ARRAY A, B, D, R[1:2], C[1:5], MATRIX[1:3,1:3];

10550040 T 0001

INTEGER I, J, V;

10550050 T 0008

STREAM PROCEDURE FLAGCHK (DUM1, DUM2, DUM3);

10550160 T 0008

BEGIN

10550170 T 0008

SI←DUM1;

10550180 T 0009

DI←DUM3;

10550190 T 0009

DI← DI+7;

10550200 T 0009

IF SB THEN DS← 1 SET;

10550200 T 0009

SI ← DUM2;

10550220 T 0010

IF SB THEN DS← 1 SET;

10550230 T 0010

SI← DUM3; SI← SI+ 7;

10550235 T 0011

DI←DUM1; IF SB THEN DS← 1 RESET;

10550236 T 0012

DI←DUM2; IF SB THEN DS← 1 RESET;

10550237 T 0013

END;

10550240 T 0014

FILL INT[*] WITH 549755813887, -549755813887;

10550241 T 0014

START OF SEGMENT ***** 136

Data Documents/Inc.

		136 1S 2 LONG, NEXT SEG 135
1	FILL A[*] WITH 4.3@63, 7.8@56;	10550240 T 0016
2		
3		START OF SEGMENT ***** 137
4		
5		137 1S 2 LONG, NEXT SEG 135
6		
7	FILL B[*] WITH "EDW" ,"KEH";	10550243 T 0018
8		
9		START OF SEGMENT ***** 138
10		
11		138 1S 2 LONG, NEXT SEG 135
12		
13	FILL C[*] WITH 1.0, "TWO", 0.3@1,0,0;	10550244 T 0020
14		
15		START OF SEGMENT ***** 139
16		
17		139 1S 5 LONG, NEXT SEG 135
18		
19	FILL MATRIX[1,*] WITH "DIA" ,0,0;	10550245 T 0022
20		
21		START OF SEGMENT ***** 140
22		
23		140 1S 3 LONG, NEXT SEG 135
24		
25	FILL MATRIX[2,*] WITH 0, "GON",0;	10550246 T 0024
26		
27		START OF SEGMENT ***** 141
28		
29		141 1S 3 LONG, NEXT SEG 135
30		
31	FILL MATRIX[3,*] WITH 0,0,"AL";	10550247 T 0027
32		
33		START OF SEGMENT ***** 142
34		
35		142 1S 3 LONG, NEXT SEG 135
36		
37	FILL D[*] WITH OCT777, 111;	10550248 T 0029
38		
39		START OF SEGMENT ***** 143
40		
41		143 1S 2 LONG, NEXT SEG 135
42		
43	FILL R[*] WITH OCT40000000000000001, OCT77777777777777777;	10550249 T 0031
44		
45		START OF SEGMENT ***** 144
46		
47		144 1S 2 LONG, NEXT SEG 135
48		
49	V+0;	10550250 T 0033
50		
51	FLAGCHK(R[1],R[2],V);	10550251 T 0033
52		
53	TEMP[23]+ R[1];	10550260 T 0036
54		
55	TEMP[24] + R[2];	10550270 T 0039
56		
57	TEMP[25] + V;	10550280 T 0041
	TEMP[1] + INT[1];	10550290 T 0043

Data Documents/Inc.

TEMP[2] ← INT [2];

10550300 T 0045

TEMP[3] ← A[1];

10550310 T 0048

TEMP[4] ← A[2];

10550320 T 0050

TEMP[5] ← B[1];

10550330 T 0053

TEMP[6] ← B[2];

10550340 T 0055

FOR I+1 STEP 1 UNTIL 5 DO TEMP[I+6] ← C[I];

10550350 T 0058

TEMP[12] ← D[1];

10550360 T 0064

TEMP[13] ← D[2];

10550370 T 0066

FOR J ← 1 STEP 1 UNTIL 3 DO TEMP[J+13] ← MATRIX[1,J];

10550380 T 0069

FOR J ← 1 STEP 1 UNTIL 3 DO TEMP[J+16] ← MATRIX[2,J];

10550390 T 0076

FOR J ← 1 STEP 1 UNTIL 3 DO TEMP[J+19] ← MATRIX[3,J];

10550400 T 0084

FILL ANS[*] WITH OCT7777777777777777, OCT20077777777777777777;

10550410 T 0092

START OF SEGMENT ***** 145

OCT722471745413117, OCT627747624362477, OCT252466,

10550420 T 0094

OCT422530, OCT1, OCT636646, OCT3, OCT0, OCT0, OCT777,

10550430 T 0094

OCT157, OCT243121, OCT0, OCT0, OCT0, OCT274645, OCT0,

10550420 T 0094

OCT0, OCT0, OCT2143, OCT1, OCT37777777777777777777, OCT60;

10550450 T 0094

145 rS 25 LONG, NEXT SEG 135

CVN ← 25;

10550460 T 0094

PNQ ← 55;

10550470 T 0095

VERIFY

10550480 T 0095

END;

10550490 T 0095

135 rS 102 LONG, NEXT SEG 10

PROCEDURE P57; COMMENT TYPE DECLARTION OWN;

10570010 T 0174

BEGIN

10570020 T 0174

INTEGER INDEX, TIME; LABEL INITIAL ;

10570030 T 0174

START OF SEGMENT ***** 146

TIME+1; INDEX ← 1;

10570040 T 0000

INITIAL; BEGIN

10570050 T 0001

OWN REAL FLOATONE, FLOATWO;

10570060 T 0002

START OF SEGMENT ***** 147

Data Documents/Inc.

OWN BOOLEAN TRUU,FALSS;

10570070 T 0000

OWN INTEGER ONE,TWO,THREE;

10570080 T 0000

OWN ALPHA ALPHA,BETA;

10570090 T 0000

IF TIME =1 THEN

10570110 T 0000

BEGIN

10570120 T 0000

FLOATONE+5; TIME+TIME+1;

10570130 T 0001

TRUU + TRUE;

10570140 T 0003

ONE + 1;

10570150 T 0004

ALPH + "ABC"

10570160 T 0004

END;

10570170 T 0005

TEMP[INDEX] + FLOATONE; INDEX + INDEX + 1;

10570180 T 0005

TEMP[INDEX] + REAL(TRUU);

10570190 T 0008

TEMP[INDEX + 1] + ONE;

10570200 T 0010

TEMP[INDEX + 2] + ALPH; INDEX + INDEX + 3

10570210 T 0012

END;

10570230 T 0015

147 TS 18 LONG, NEXT SEG 146

BEGIN

10570235 T 0003

OWN REAL FLOATONE,TRUU,ONE,ALPH ;

10570240 T 0003

START OF SEGMENT ***** 148

FLOATONE + 1.0;

10570250 T 0000

TRUU + 22 ;

10570260 T 0000

ONE + 24;

10570270 T 0001

ALPH + 29

10570280 T 0002

END;

10570290 T 0002

148 TS 5 LONG, NEXT SEG 146

IF TIME=2 THEN BEGIN TIME+TIME+1; GO TO INITIAL END;

10570300 T 0004

FILL ANS[*] WITH OCT5, OCT1, OCT1, OCT212223,

10570310 T 0007

START OF SEGMENT ***** 149

OCT5, OCT1, OCT1, OCT212223;

10570320 T 0008

149 TS 8 LONG, NEXT SEG 146

CVN + 8; PNO + 57 ; VERIFY

10570330 T 0008

END;

10570340 T 0010

146 JS 13 LONG, NEXT SEG 10

PROCEDURE P60; COMMENT 5.2.3.3 TYPE ARRAY ,HARRY, NOV 27.;

10600010 T 0174

BEGIN

10600020 T 0174

ARRAY ONE,TWO[1:10];

10600030 T 0174

START OF SEGMENT ***** 150

REAL ARRAY THREE,FOUR,FIVE,SIX[1:5,2:8];

10600040 T 0002

INTEGER ARRAY SEVEN,EIGHT[1:5],NINE[1:9];

10600050 T 0004

BOOLEAN ARRAY ELEVEN[1:1023] ;

10600060 T 0008

ALPHA ARRAY TWELVE[1:10];

10600070 T 0010

INTEGER I,N; BOOLEAN B,BOL;

10600080 T 0012

I←4; N←15; B←TRUE; BOL←FALSE ;

10600090 T 0012

BEGIN COMMENT DYNAMIC;

10600100 T 0015

OWN REAL ARRAY R1[I-3:N+5];

10600110 T 0015

START OF SEGMENT ***** 151

OWN INTEGER ARRAY I1 [I: I×N];

10600120 T 0005

OWN BOOLEAN ARRAY B1 [1:IF B THEN I+N ELSE N-9];

10600130 T 0010

OWN ALPHA ARRAY A1,A2,A3[1:10] ;

10600140 T 0017

ONE[1] ← 1;

10600160 T 0020

THREE[I,I]←I;

10600170 T 0022

SEVEN[I+1] ← NINE[I+4]+EIGHT[N-3×I] ← 2;

10600180 T 0025

FOR I ← 1 STEP 4 UNTIL 1024 DO ELEVEN [I] ← B ;

10600190 T 0031

TWELVE[1]← "HARRY";

10600200 T 0037

I ← 4; R1[1] ← R1 [18] ← I1[4] ← I1[60] ← 1;

10600210 T 0038

B1[19]← TRUE;

10600220 T 0045

A1[1] ← "HARRY";

10600230 T 0047

TEMP[1]← ONE[1];

10600231 T 0049

TEMP[2]← THREE[I,I];

10600232 T 0051

TEMP[3]← SEVEN[I+1];

10600233 T 0055

TEMP[4]← REAL(ELEVEN[5]);

10600234 T 0058

TEMP[5]← TWELVE[1];

10600235 T 0061

TEMP[6]+ R1[18];

10600236 T 0063

TEMP[7]+REAL (B1[19]);

10600237 T 0066

TEMP[8]+A1[1];

10600238 T 0068

FILL ANS[*] WITH OCT1, OCT4, OCT2, OCT1, OCT3021515170,

10600240 T 0071

START OF SEGMENT ***** 152

OCT1, OCT1, OCT3021515170;

10600250 T 0072

152 T S 8 LONG, NEXT SEG 151

CVN + 8; PND + 60; VERIFY

10600260 T 0072

END END;

10600270 T 0074

151 T S 80 LONG, NEXT SEG 150

150 T S 23 LONG, NEXT SEG 10

PROCEDURE P61; COMMENT BOUND PATR LIST ;

10610010 T 0174

BEGIN

10610020 T 0174

INTEGER I, J, K;

10610030 T 0174

START OF SEGMENT ***** 153

ARRAY BOUND[1:1], MINUS[-10:-10], MONUS[-15:-10],

10610050 T 0000

SPLIT[-15:14], LIMIT[2:1023];

10610060 T 0010

I + 1; J + 6; K + 6;

10610065 T 0013

BEGIN

10610070 T 0015

ARRAY DYNAMIC[I:J], EXP[I:15], UPPER[5:I+J],

10610080 T 0015

START OF SEGMENT ***** 154

DIMI[I:I+1, J:J+1, K:K+1, 1:1, 1:1];

10610090 T 0014

BOUND[1] + 1; MINUS[-10] + 10; MONUS [-13] + 13;

10610100 T 0025

SPLIT[11] + 11; LIMIT[1023] + 24;

10610110 T 0031

TEMP[1] + 1; TEMP[2] + 10; TEMP[3] + 13; TEMP[4] + 11;

10610120 T 0034

TEMP[5] + 24 ;

10610130 T 0041

TEMP[6] + DYNAMIC[6] + 6;

10610140 T 0043

TEMP[7] + EXP[15] + 15;

10610150 T 0046

TEMP[8] + UPPER[7] + 7;

10610160 T 0050

TEMP[9] + DIMI[2,7,7,1,1]+277;

10610170 T 0053

END ;

10610180 T 0061

154 IS 65 LONG, NEXT SEG 153

FILL ANS[*] WITH OCT1, OCT12, OCT15, OCT13, OCT30,

10610190 T 0016

START OF SEGMENT ***** 155

OCT6, OCT17, OCT7, OCT425;

10610200 T 0017

155 IS 9 LONG, NEXT SEG 153

PNO ← 61; CVN ← 9; VERIFY

10610210 T 0017

END;

10610220 T 0019

153 IS 28 LONG, NEXT SEG 10

PROCEDURE P62; COMMENT SWITCH DECLARATION EK NOV 26 62;

10620010 T 0174

BEGIN

10620020 T 0174

INTEGER X1, X2, X3, X4, X5;

10620030 T 0174

START OF SEGMENT ***** 156

LABEL L1, L2, L3, L4, L5, L6, L7, L8, L9, L10, L11, L12, L14, LL1, LL2, LL3,

10620040 T 0000

LL4, LL5, LAB, LAB1;

10620050 T 0000

SWITCH S2 FORWARD;

10620055 T 0000

SWITCH S1 ← L1, L1, L1, L1, L1, L2, L2, L2, L2, L2, L3, L3, L3, L3, L3, L4, L4,

10620060 T 0000

L4, L4, L4, L5, L5, L5, L5, L5, IF X1=X2 THEN L6 ELSE L7,

10620070 T 0002

L6, L6, L6, L7, L7, L7, L7, S2[X1+2], S2[3], L8, L8, L8, L8, L8,

10620080 T 0058

L9, L9, L9, L9, L9, L9, L10, L10, L10, L10, S2[4], S2[4], L11,

10620090 T 0086

L11, L11, L11, L11, L12, L12, L12, L14, L14, L14, L14;

10620100 T 0112

SWITCH S2 ← LL1, LL2, LL3, LL4, S1[X4×13+1];

10620110 T 0168

X1 ← 1;

10620120 T 0188

X2 ← 2;

10620130 T 0189

X3 ← 3;

10620140 T 0190

X4 ← 4;

10620150 T 0190

X5 ← 5;

10620155 T 0191

GO TO S1[1];

10620160 T 0192

L1: TEMP[1] ← 1;

10620170 T 0194

IF X1 > 1 THEN GO TO LAB;

10620180 T 0196

Data Documents/Inc.

	X1 + X1+1;	10620190 T 0198
1	TEMP[2] + TEMP[1]+1;	10620200 T 0199
2		
3	GO TO S1[X1];	10620210 T 0202
4		
5	LAB: GO TO S1[6];	10620220 T 0204
6		
7	L2: TEMP[3] + 3;	10620230 T 0207
8		
9	GO TO S1[X3*2+X5];	10620240 T 0208
10		
11	L3: TEMP[4] + 4;	10620250 T 0211
12		
13	GO TO S1[23];	10620260 T 0213
14		
15	L5: TEMP[5] + 5;	10620270 T 0215
16		
17	GO TO S1[16];	10620280 T 0217
18		
19	L4: TEMP[6] + 6;	10620290 T 0219
20		
21	GO TO S1[26];	10620300 T 0221
22		
23	L6: TEMP[7] + 7;	10620310 T 0223
24		
25	X1 + X1-1;	10620320 T 0225
26		
27	GO TO S1[26];	10620330 T 0227
28		
29	L7: TEMP[8]+8;	10620340 T 0229
30		
31	GO TO S1[34];	10620350 T 0230
32		
33	LL3: TEMP[9] + 9;	10620360 T 0232
34		
35	IF X1> 1 THEN GO TO LAB1;	10620370 T 0234
36		
37	X1 + X1+1;	10620380 T 0236
38		
39	TEMP[10] + TEMP[9] +1;	10620390 T 0237
40		
41	GO TO S1[35];	10620400 T 0240
42		
43	LAB1: GO TO S1[37];	10620410 T 0242
44		
45	L8: GO TO S1[42];	10620420 T 0245
46		
47	L9: TEMP[11] + 11;	10620430 T 0247
48		
49	GO TO S1[48];	10620440 T 0248
50		
51	L10: GO TO S1[51];	10620450 T 0250
52		
53	LL4: TEMP[12] + 12;	10620460 T 0253
54		
55	GO TO S2[5];	10620470 T 0254
56		
57	L11: TEMP[13] + 13;	10620480 T 0256
	GO TO S1[59];	10620490 T 0258

L12: GO TO S1 [64];

10620500 T 0260

L14: TEMP[14]+14;

10620510 T 0263

LL1: LL2:

10620515 T 0264

FILL ANS [*] WITH OCT1, OCT2, OCT3, OCT4, OCT5, OCT6, OCT7,

10620520 T 0265

START OF SEGMENT ***** 157

OCT10, OCT11, OCT12, OCT13, OCT14, OCT15, OCT16;

10620530 T 0266

157 IS 14 LONG, NEXT SEG 156

CVN + 14;

10620540 T 0266

PNQ + 62;

10620550 T 0267

VERIFY

10620560 T 0268

END;

10620570 T 0268

156 IS 275 LONG, NEXT SEG 10

PROCEDURE P63; COMMENT SWITCH LIST EXPRESSION EVALUATION, 5.3.4 CCZ;

10630010 T 0174

BEGIN

10630020 T 0174

LABEL L1, L2, L3, L4, L5;

10630030 T 0174

START OF SEGMENT ***** 158

INTEGER I1;

10630040 T 0000

SWITCH SW1+IF I1=1 THEN L1 ELSE IF I1=2 THEN L2 ELSE IF I1=3

10630050 T 0000

THEN L3 ELSE L4;

10630060 T 0009

INTEGER PROCEDURE F(I1);

10630070 T 0017

INTEGER I1;

10630080 T 0017

BEGIN F+I1+TEMP[I1]+I1-1 END;

10630090 T 0017

10630100 T 0023

SWITCH SW2 FORWARD;

10630110 T 0023

SWITCH SW2+L5, SW2[F(I1)], SW2[F(I1)];

10630120 T 0023

I1+2; GO TO SW2[I1]; L5: TEMP[I1]+I1+1;

10630130 T 0037

FOR I1+1 STEP 1 UNTIL 3 DO

10630140 T 0043

BEGIN GO TO SW1[I1];

10630150 T 0044

L1: BEGIN TEMP[3]+I1; GO TO L4 END;

10630160 T 0046

L2: BEGIN TEMP[4]+I1; GO TO L4 END;

10630170 T 0048

L3: TEMP[5]+I1;

10630180 T 0051

L4: END;

10630190 T 0053

FILL ANS[*] WITH 2,1,1,2, 3;

10630200 T 0056

START OF SEGMENT ***** 159

159 TS 5 LONG, NEXT SEG 158

CVN+5;

10630210 T 0058

PNO+63;

10630220 T 0058

VERIFY

10630230 T 0059

END;

10630240 T 0059

158 TS 65 LONG, NEXT SEG 10

PROCEDURE P64; COMMENT 5.3.5 SWITCH SCOPE, C. ZETHRAEUS, 11/23/62 ;

10640010 T 0174

BEGIN LABEL L1, L2, L3; INTEGER I1, I2, I3; BOOLEAN B1;

10640020 T 0174

START OF SEGMENT ***** 160

SWITCH SW1 ← L1, L2, L3;

10640030 T 0000

SWITCH SW2 ← SW1[I1], IF B1 THEN SW1[I2] ELSE SW1[I3];

10640040 T 0004

LABEL L4;

10640045 T 0020

I1 ← 1; I2 ← 2; I3 ← 3; B1 ← TRUE;

10640050 T 0020

BEGIN INTEGER I1, I2, I3; BOOLEAN B1;

10640060 T 0023

START OF SEGMENT ***** 161

I1 ← 2; I2 ← 3; I3 ← 1; B1 ← FALSE;

10640070 T 0000

GO TO SW2[I1];

10640080 T 0003

GO TO L3;

00000000 T 0005

END;

10640090 T 0007

161 TS 8 LONG, NEXT SEG 160

L1: TEMP[1] ← 1; GO TO L4;

10640100 T 0024

L2: TEMP[1] ← 2; GO TO L4;

10640110 T 0026

L3: TEMP[1] ← 3;

10640120 T 0029

L4: FILL ANS[*] WITH OCT2;

10640130 T 0031

START OF SEGMENT ***** 162

162 TS 1 LONG, NEXT SEG 160

CVN ← 1; PNO ← 64; VERIFY;

10640140 T 0033

END;

10640150 T 0035

Data Documents/Inc.

PROCEDURE P66; COMMENT LABEL DECLARATION EK 17 JAN 63;

10660010 T 0174

BEGIN

10660020 T 0174

INTEGER X1, I, Y;

10660030 T 0174

START OF SEGMENT ***** 163

LABEL L1, L2, L3, LAS1, LA1, LA2, LB1;

10660040 T 0000

SWITCH SW1 ← LA1, LA2;

10660050 T 0000

PROCEDURE P1(FP1);

10660060 T 0004

INTEGER FP1;

10660070 T 0004

BEGIN

10660080 T 0004

LABEL LL1, LL2;

10660090 T 0004

START OF SEGMENT ***** 164

INTEGER PQR;

10660100 T 0000

PQR ← C;

10660101 T 0000

LL1: IF FP1 = 1 THEN GO TO LL2;

10661000 T 0000

FOR PQR ← PQR + 1 STEP 1 UNTIL 5 DO

10661100 T 0002

TEMP[PQR + 1] ← PQR + 1;

10661200 T 0006

FP1 ← FP1 + 1;

10661300 T 0009

GO TO LL1;

10661400 T 0011

LL2:

10661500 T 0011

END;

10661600 T 0012

164 TS 15 LONG. NEXT SEG 163

LA2: I ← 0;

10661700 T 0004

P1(I);

10661800 T 0005

X1 ← 1;

10661900 T 0006

BEGIN

10662000 T 0007

LABEL LA1;

10662100 T 0007

START OF SEGMENT ***** 165

GO TO SW1[1];

10662200 T 0000

LA1: TEMP[13] ← 511

10662300 T 0003

165 rS 6 LONG, NEXT SEG 163

1 GO TO LB1; 10660250 T 0008
2
3 LA1: TEMP[12] + 12; 10660260 T 0008
4
5 LB1: x1 + 1; 10660270 T 0010
6
7 GO TO L3; 10660280 T 0011
8
9 L2: BEGIN 10660290 T 0012

10
11 INTEGER Y1; 10660300 T 0013
12

13 START OF SEGMENT ***** 166

14
15 LABEL L4,L5,L6, LST; 10660310 T 0000
16
17 GO TO L4; 10660320 T 0000
18
19 TEMP[14] + 100; 10660330 T 0000
20
21 L4: Y1 + 2; 10660340 T 0002
22
23 GO TO L6; 10660350 T 0003
24
25 L5: BEGIN 10660360 T 0004
26
27 LABEL L7; 10660370 T 0005

28
29 START OF SEGMENT ***** 167

30
31 GO TO L7; 10660380 T 0000
32
33 TEMP[15] + 101; 10660390 T 0000
34
35 L7: TEMP[7] + 7 10660400 T 0002
36
37 END; 10660410 T 0004

38
39 167 rS 6 LONG, NEXT SEG 166

40
41 GO TO L5; 10660420 T 0006
42
43 L6: TEMP[6] + Y1*3; 10660430 T 0006
44
45 GO TO L5; 10660440 T 0009
46
47 LST: END; 10660450 T 0009

48
49 166 rS 11 LONG, NEXT SEG 163

50
51 GO TO LAST; 10660460 T 0014
52
53 L3: TEMP[8] + 8; 10660470 T 0014
54
55 GO TO L2; 10660480 T 0016
56
57 LAST:TEMP[9] + 9; 10660490 T 0017

BEGIN 10660500 T 0019

LABEL LC1;

10660510 T 0019

START OF SEGMENT ***** 168

BEGIN

10660520 T 0000

LABEL LC1;

10660530 T 0000

START OF SEGMENT ***** 169

GO TO LC1;

10660540 T 0000

TEMP[16] + 102;

10660550 T 0000

LC1: TEMP[10] + 10

10660560 T 0002

END;

10660570 T 0004

169 IS 6 LONG, NEXT SEG 168

GO TO LC1;

10660580 T 0001

TEMP[17] + 104;

10660590 T 0001

LC1: TEMP[11] + 11

10660600 T 0003

END;

10660610 T 0005

168 IS 7 LONG, NEXT SEG 163

FILL ANS[*] WITH OCT0, OCT2, OCT3, OCT4, OCT5, OCT6, OCT7,

10660621 T 0021

START OF SEGMENT ***** 170

OCT10, OCT11, OCT12, OCT13, OCT14, OCT0, OCT0, OCT0,

10660631 T 0022

OCT0, OCT0;

10660641 T 0022

170 IS 17 LONG, NEXT SEG 163

CVN + 17;

10660650 T 0022

PNO + 66;

10660660 T 0023

VERIFY

10660670 T 0024

END;

10660680 T 0024

163 IS 30 LONG, NEXT SEG 10

PROCEDURE P74; COMMENT USE OF INPUT FORMAT PHRASE A, DEC 11 1963;

10740010 T 0174

BEGIN

10740020 T 0174

INTEGER D;

10740030 T 0174

START OF SEGMENT ***** 171

FORMAT IN FIA(/ 2A2, 2(2A2), 1("KASTUR", 2A5/),

10740040 T 0000

START OF SEGMENT ***** 172

1(1(2(2A3))), 2A1, A5);

10740050 T 0000

172 IS 22 LONG, NEXT SEG 171

LIST LINA (FOR D+1 STEP 1 UNTIL 15 DO TEMP[D]);

10740060 T 0000

STREAM PROCEDURE FORMATAFILLE(FILLA);

10740070 T 0010

BEGIN

10740080 T 0010

LOCAL QS, QR, Q;

10740090 T 0011

LABEL L1, L6;

10740100 T 0011

COMMENT MAKE 3 BUFFERS OF FILE FDUMMY PRESENT;

10740110 T 0011

L1: SI← FILLA; SKIP 2 SB; COMMENT POINT TO PR BIT;

10740120 T 0011

IF SB THEN BEGIN SKIP 48 SB;

10740130 T 0011

IF SB THEN BEGIN SKIP 48 SB;

10740140 T 0012

IF SB THEN GO TO L6; GO TO L1

10740150 T 0014

END; GO TO L1

10740160 T 0015

END; GO TO L1 ;

10740170 T 0015

COMMENT FILES ARE NOW VERIFIED AS PRESENT;

10740180 T 0015

L6: SI← FILLA; DI ← LOC Q; DS ← 3 WDS;

10740190 T 0015

DI←Q; COMMENT FILL BUFFER 1;

10740200 T 0016

DS←40 LIT "B";

10740210 T 0017

DS←40 LIT "C";

10740220 T 0022

DI ← QR; COMMENT FILL BUFFER 2;

10740230 T 0027

DS←28 LIT "AABBIAA2AAACXXXXXA11232AAA5";

10740240 T 0027

DI← QS; COMMENT FILL BUFFER 3;

10740250 T 0031

DS←19 LIT "123123222222210*3/+";

10740260 T 0031

END;

10740270 T 0034

READ(FDUMMY); COMMENT OPEN FILE FDUMMY;

10740280 T 0034

FORMATAFILLE(FDUMMY);

10740290 T 0039

READ(FDUMMY, FIA, LINA);

10740300 T 0040

FILL ANS[*] WITH OCT2121, OCT2222, OCT3121, OCT2102, OCT2121,

10740310 T 0044

START OF SEGMENT ***** 173

OCT2123, OCT2101010203, OCT0221212105,

10740320 T 0046

OCT010203, OCT010203, OCT020202, OCT17021,

10740330 T 0046

Data Documents/Inc.

OCT17, UCT1, OCT0053036120;

10740335 T 0046

173 TS 15 LONG, NEXT SEG 171

CVN+15;

10740340 T 0046

PNO + 74;

10740350 T 0047

VERIFY

10740360 T 0047

END;

10740370 T 0047

171 TS 51 LONG, NEXT SEG 10

PROCEDURE P75; COMMENT INPUT FORMAT PHRASE D, KM, DEC 10 1963;

10750010 T 0174

BEGIN

10750020 T 0174

INTEGER D;

10750030 T 0174

START OF SEGMENT ***** 174

FORMAT IN FORMD (D, I3, 2D, I6, 1(I(D)), 2("KASTUR"/

10750040 T 0000

START OF SEGMENT ***** 175

1(3D, I3/), I7, 2D);

10750050 T 0000

175 TS 23 LONG, NEXT SEG 174

LIST LD (FOR D+ 1 STEP 1 UNTIL 4 DO TEMP[D]);

10750060 T 0000

STREAM PROCEDURE FORMATFILLD (FID);

10750070 T 0010

BEGIN

10750080 T 0010

LOCAL QS, QR, Q;

10750090 T 0011

LABEL L1, L6;

10750100 T 0011

COMMENT MAKE 3 BUFFERS OF FILE FDUMMY PRESENT;

10750110 T 0011

L1: SI+ FID; SKIP 2 SB; COMMENT POINT TO PR BIT;

10750120 T 0011

IF SB THEN BEGIN SKIP 48 SB;

10750130 T 0011

IF SB THEN BEGIN SKIP 48 SB;

10750140 T 0012

IF SB THEN GO TO L6; GO TO L1

10750150 T 0014

END; GO TO L1

10750160 T 0015

END; GO TO L1 ;

10750170 T 0015

COMMENT FILES ARE NOW VERIFIED AS PRESENT;

10750180 T 0015

L6: SI+ FID; DI+LOC Q; DS+ 3 WDS;

10750190 T 0015

DI+ Q; COMMENT FILL BUFFER 1;

10750200 T 0016

DS+ 33 LIT "ABCDEFGH123456";

10750210 T 0017

DS+ 10 LIT "PQRSTUVWXYZ";

10750220 T 0021

DS+ 37 LIT "X";

10750225 T 0023

DI+QR; COMMENT FILL SECOND BUFFER;

10750230 T 0028

DS+ 27 LIT "123456781234567812345678000";

10750240 T 0028

DS+10 LIT "A";

10750245 T 0032

DI+QS; COMMENT FILL BUFFER 3;

10750250 T 0033

DS+ 23 LIT "1234567AAAAAAAAA1A2B3C64";

10750260 T 0033

END;

10750270 T 0037

READ (FDUMMY); COMMENT MAKE FILE FDUMMY PRESENT;

10750280 T 0037

FORMATFILLD (FDUMMY); COMMENT FILL BUFFERS WITH INFO;

10750290 T 0042

READ (FDUMMY,FORMD,LD);

10750300 T 0043

FILL ANS [*] WITH 231, 234561, 000, 1234567;

10750310 T 0047

START OF SEGMENT ***** 176

176 T S 4 LONG, NEXT SEG 174

CVN+ 4;

10750320 T 0049

PNO + 75;

10750330 T 0050

VERIFY

10750340 T 0050

END;

10750350 T 0050

174 T S 54 LONG, NEXT SEG 10

PROCEDURE P76; COMMENT FORMAT PHASE E EK 2 JAN 63;

10760010 T 0174

BEGIN

10760020 T 0174

ARRAY A[0:1], B[0:1], C[0:2];

10760030 T 0174

START OF SEGMENT ***** 177

REAL X,Y,Z,R,W,X1,Y1,Y2,Y3;

10760040 T 0005

INTEGER I;

10760050 T 0005

FORMAT IN FORM1(E8.1, 2E8.1, 2(E8.1,2E10.3));

10760070 T 0005

START OF SEGMENT ***** 178

178 T S 9 LONG, NEXT SEG 177

FORMAT IN FORM2(E11.4,3E13.6,E12.5,E10.3,E8.1);

10760080 T 0005

START OF SEGMENT ***** 179

179 T S 8 LONG, NEXT SEG 177

1	LIST L1(X,Y,Z,R, FOR I+0 STEP 1 UNTIL 1 DO A[I], W, FOR I+0	10760090 T	0005
2	STEP 1 UNTIL 1 DO B[I]);	10760100 T	0018
3	LIST L2 (X1, FOR I + 0 STEP 1 UNTIL 2 DO C[I], Y1, Y2, Y3);	10760110 T	0025
4	STREAM PROCEDURE STP1(F1, X);	10760115 T	0039
5	VALUE X;	10760116 T	0039
6	BEGIN	10760120 T	0039
7	LABEL A, B, C;	10760125 T	0040
8	DI+F1; SI+LOC X; SI+SI+7; IF SC="A" THEN GO TO A;	10760130 T	0040
9	IF SC="B" THEN GO TO B; GO TO C;	10760135 T	0041
10	A: DS+38 LIT "-0.1e+08 0.8e+01 0.5e+00-0.1e 03 0.645";	10760140 T	0042
11	DS+38 LIT "e 02+0.165e 02-0.1e-04-0.173e+07-0.200";	10760150 T	0048
12	DS+ 4 LIT "e 04"; GO TO C;	10760155 T	0053
13	B: DS+34 LIT "-0.2525e+02 0.888520e+03 0.735125e";	10760160 T	0054
14	DS+38 LIT " 03 0.136421e+06 0.16250e 02-0.625e+01" ;	10760165 T	0058
15	DS+8 LIT " 0.1e 01";	10760167 T	0063
16	C: END;	10760180 T	0064
17	STP1(FDUMMY(0), "A");	10760190 T	0065
18	READ (FDUMMY, FORM1, L1);	10760200 T	0070
19	STP1(FDUMMY(0), "B");	10760210 T	0073
20	READ(FDUMMY, FORM2, L2);	10760215 T	0077
21	TEMP[1] + X;	10760220 T	0081
22	TEMP[2] + Y;	10760230 T	0083
23	TEMP[3] + Z;	10760240 T	0085
24	TEMP[4] + R;	10760250 T	0086
25	TEMP[7] + W;	10760260 T	0088
26	FOR I + 0 STEP 1 UNTIL 1 DO	10760270 T	0090
27	BEGIN	10760280 T	0091
28	TEMP[I+5] + A[I];	10760290 T	0091
29	TEMP[I+8] + B[I];	10760300 T	0093
30	END;	10760310 T	0096
31	TEMP[10] + X1;	10760320 T	0098

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FOR I + 0 STEP 1 UNTIL 2 DO TEMP[I+11] + C[I];
TEMP[14] + Y1;
TEMP[15] + Y2;
TEMP[16] + Y3;
FILL ANS[*] WITH OCT3054611320000000, OCT1131000000000000,
OCT10100000000000004, OCT20000000000000144,
OCT11210040000000000, OCT11320400000000000,
OCT3222476132610707, OCT3066462720000000,
OCT31137200000000000, OCT30100000000000312,
OCT1111570412172703, OCT1010000000013371,
OCT10741234500000000, OCT11320200000000000,
OCT31462000000000000, OCT11410000000000000;
CVN + 16;
PND + 76;
VERIFY
END;
PROCEDURE P78; COMMENT INPUT FORMAT PHRASE I, KM OCT 23 63;
BEGIN
INTEGER D;
FORMAT IN FORM1 (/1(2I1),1(2I2,I2), 2I2, 2(2I2, 2(2(1(2I2))))/
2I2, 16, 2(2(2(I1)))));
LIST LI (FOR D + 1 STEP 1 UNTIL 38 DO TEMP[D]);
STREAM PROCEDURE FORMATI(FI);
BEGIN

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10760330 T 0100
10760340 T 0105
10760350 T 0107
10760360 T 0109
10760371 T 0111
START OF SEGMENT ***** 180
10760381 T 0112
10760391 T 0112
10760401 T 0112
10760421 T 0112
10760431 T 0112
10760441 T 0112
10760451 T 0112
180 TS 16 LONG, NEXT SEG 177
10760460 T 0112
10760470 T 0113
10760480 T 0114
10760490 T 0114
177 TS 122 LONG, NEXT SEG 10
10780010 T 0174
10780020 T 0174
10780030 T 0174
START OF SEGMENT ***** 181
10780040 T 0000
START OF SEGMENT ***** 182
10780050 T 0000
182 TS 32 LONG, NEXT SEG 181
10780060 T 0000
10780070 T 0010
10780080 T 0010

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Data Documents/Inc.

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LOCAL QS,QR, Q;

10780090 T 0011

COMMENT MAKE THE 3 BUFFERS OF FDUMMY PRESENT;

10780110 T 0011

LABEL L1, L6;

10780120 T 0011

L1: SI+FI; SKIP 2 SB; COMMENT POINT TO THE PR BIT;

10780130 T 0011

IF SB THEN BEGIN SKIP 48 SB;

10780140 T 0011

IF SB THEN BEGIN SKIP 48 SB;

10780150 T 0012

IF SB THEN GO TO L6; GO TO L1;

10780160 T 0014

END; GO TO L1;

10780170 T 0015

END; GO TO L1;

10780180 T 0015

L6: SI+FI; DI+LOC Q; DS+ 3 WDS;

10780185 T 0015

DI+ Q;

10780190 T 0016

DS+40 LIT "A";

10780200 T 0017

DS+40 LIT "A";

10780210 T 0022

DI +QR;

10780220 T 0027

DS +36 LIT "1++2-3+2+3-4-5+6+3+44546535455566162";

10780230 T 0027

DS+16 LIT "6364656665644647"; DS+ 28 LIT "0";

10780240 T 0032

DI+QS;

10780250 T 0038

DS + 18 LIT "1516+12345213766-5";

10780260 T 0038

END;

10780270 T 0041

READ (FDUMMY[NO]); COMMENT FILL BUFFER BLANK CARDS ;

10780280 T 0041

FORMATI(FDUMMY); COMMENT FILL BUFFERS WITH INFORMATION;

10780290 T 0046

READ (FDUMMY, FORM1, LI); COMMENT EDIT THE BUFFERS;

10780300 T 0047

FILL ANS[+] WITH 1, 0, 2, -3, 2, 3, -4, -5, 6, 3, 4, 45, 46,

10780310 T 0051

START OF SEGMENT ***** 183

53, 54, 55, 56, 61, 62, 63, 64, 65, 66,

10780320 T 0053

65, 64, 46, 47, 15, 16, 12345, 2, 1, 3,

10780330 T 0053

7, 6, 6, 0, 5;

10780335 T 0053

183 T S 36 LONG, NEXT SEG 181

CVN + 38;

10780340 T 0053

PNO + 78;

10780350 T 0054

VERIFY

10780360 T 0054

END;

10780370 T 0054

181 IS 58 LONG, NEXT SEG 10

PROCEDURE P79; COMMENT INPUT PHRASE L. JAN 9. 1964;

10790010 T 0174

BEGIN

10790020 T 0174

INTEGER D;

10790030 T 0174

START OF SEGMENT ***** 184

FORMAT IN FORMATLOGICAL(2(L5),L15/ 2(2L5, "KASTUR" L5,L7,

10790040 T 0000

START OF SEGMENT ***** 185

1(1(2L5)),/));

10790050 T 0000

185 IS 20 LONG, NEXT SEG 184

LIST LOGICAL (FOR D + 1 STEP 1 UNTIL 15 DO TEMP[D]);

10790060 T 0000

STREAM PROCEDURE FILLLOGIC(FLOG);

10790070 T 0010

BEGIN

10790080 T 0010

LOCAL QS,QR,G;

10790090 T 0011

LABEL L1, L6;

10790100 T 0011

COMMENT MAKE 3 BUFFERS OF FILE FDUMMY PRESENT;

10790110 T 0011

L1: SI+FLOG; SKIP 2 SB; COMMENT POINT TO THE PR BIT;

10790120 T 0011

IF SB THEN BEGIN SKIP 48 SB;

10790130 T 0011

IF SB THEN BEGIN SKIP 48 SB;

10790140 T 0012

IF SB THEN GO TO L6; GO TO L1;

10790150 T 0014

END; GO TO L1

10790160 T 0015

END; GO TO L1;

10790170 T 0015

COMMENT FILES ARE VERIFIED AS PRESENT;

10790180 T 0015

L6: SI + FLOG; DI+LOC Q; DS + 3 WDS;

10790190 T 0015

DI+Q; COMMENT FILL BUFFER 1;

10790200 T 0016

DS+25 LIT " TRUEFALSETRUE FALSE TRUE";

10790210 T 0017

DI+QR; COMMENT FILL BUFFER 2;

10790220 T 0020

DS+36 LIT"TTTTT11111KASTUR TRUE01234FALSE TRUE";

10790230 T 0020

DI+QS; COMMENT FILL BUFFER 3;

10790240 T 0025

DS+39 LIT" TRXEFALSXKASTUR TRXX TRUE TRUE12345123";

10790250 T 0025

END;

10790260 T 0031

READ (FDUMMY); COMMENT OPEN FILE FDUMMY;

10790270 T 0031

FILLLOGIC (FDUMMY);

10790280 T 0036

READ (FDUMMY,FORMATLOGICAL, LOGICAL);

10790290 T 0037

FILL ANS[*] WITH 1,0,1,0,0,1,0,0,0,0,0,0,0,1,0;

10790300 T 0041

START OF SEGMENT ***** 186

186 T S 15 LONG, NEXT SEG 184

CVN + 15;

10790310 T 0043

PN0+79;

10790320 T 0044

VERIFY

10790330 T 0044

END;

10790340 T 0044

184 T S 48 LONG, NEXT SEG 10

PROCEDURE P80; COMMENT USE OF FORMAT INPUT PHRASE 0;

10800010 T 0174

BEGIN

10800020 T 0174

INTEGER D;

10800030 T 0174

START OF SEGMENT ***** 187

FORMAT IN FU1 (0,20,2(1(0))/"KASTUR"/ 1(1(2(20))));

10800040 T 0000

START OF SEGMENT ***** 188

188 T S 20 LONG, NEXT SEG 187

LIST LI (FOR D+1 STEP 1 UNTIL 9 DO TEMP[D]);

10800050 T 0000

STREAM #PROCEDURE FORMATOFILL (FO);

10800060 T 0010

BEGIN

10800070 T 0010

LOCAL QS,QR,Q;

10800080 T 0011

LABEL L1, L6;

10800090 T 0011

COMMENT MAKE 3 BUFFERS OF FILE PRESENT;

10800100 T 0011

L1: SI+FO; SKIP 2 SB; COMMENT POINT TO THE PR BIT;

10800110 T 0011

IF SB THEN BEGIN SKIP 48 SB;

10800120 T 0011

IF SB THEN BEGIN SKIP 48 SB;

10800130 T 0012

IF SB THEN GO TO L6; GO TO L1;

10800140 T 0014

END; GO TO L1;

10800150 T 0015

END; GO TO L1;

10800160 T 0015

COMMENT FILES ARE NOW VERIFIED AS PRESENT;

10800170 T 0015

L6: SI+FO; DI+LOC Q; DS+ 3 WDS;

10800180 T 0015

DI+Q; COMMENT FILL BUFFER 1;

10800190 T 0016

DS+32 LIT "00012345000234560006789000078901";

10800200 T 0017

DS+8 LIT "00023456";

10800210 T 0021

DI+QR; COMMENT FILL BUFFER2;

10800230 T 0022

DS+40 LIT "A";

10800240 T 0022

DS+40 LIT "A";

10800250 T 0028

DI+QS; COMMENT FILL BUFFER 3;

10800260 T 0033

DS+32 LIT "0001111100022222000333330004444";

10800270 T 0033

END;

10800290 T 0037

READ (FDUMMY);

10800295 T 0038

FORMATOFILL (FDUMMY); COMMENT FILL BUFFERS WITH INFO;

10800300 T 0042

READ (FDUMMY,FU1,LI);

10800310 T 0043

FILL ANS[*] WITH OCT0000000102030405;

10800320 T 0047

START OF SEGMENT ***** 189

OCT0000000203040506, OCT0000000607101100,

10800325 T 0049

OCT0000000710110001, OCT0000000203040506,

10800327 T 0049

OCT0000000101010101, OCT0000000202020202,

10800330 T 0049

OCT0000000303030303, OCT0000000404040404;

10800335 T 0049

189 T S 9 LONG, NEXT SEG 187

CVN+9;

10800340 T 0049

PNO+80;

10800350 T 0050

VERIFY

10800360 T 0050

END;

10800370 T 0050

187 T S 54 LONG, NEXT SEG 10

PROCEDURE P81; COMMENT FORMAT IN PHRASE X, JAN 17 1963, KM.;

10810010 T 0174

BEGIN

10810020 T 0174

FORMAT IN FURM1 (1(A6), 1X6, I4, X1, X1,E9.2, 3(1X1),

10810040 T 0174

START OF SEGMENT ***** 190

START OF SEGMENT ***** 191

1(1(F4.1)), 2(X1), F4.2, L5, 2(1(1(X1))),L5);

10810050 T 0000

191 1S 32 LONG, NEXT SEG 190

1 COMMENT CHANGE INPUT INFORMATION TO REFLECT CHANGE OF L4 TO L5 10810053 T 0000

2 CHANGE WAS MADE BECAUSE L4 IS NOT ACCEPTABLE TO COMPILER 10810055 T 0000

3 NOTE MADE OF THIS; 10810057 T 0000

4 INTEGER I; 10810060 T 0000

5 STREAM PROCEDURE TRANSTOBUFF(STRT); 10810070 T 0000

6 BEGIN 10810080 T 0000

7 DI ← STRT; 10810090 T 0001

8 DS ← 32 LIT "ABCDEFGH\$\$\$\$1416\$\$+0,95\$+02\$\$\$+2"; 10810100 T 0001

9 DS ← 24 LIT ".3\$\$+.25 TRUES\$FALSE " 10810110 T 0005

10 END ; 10810120 T 0008

11 TRANSTOBUFF(FDUMMY(0)); 10810130 T 0009

12 READ(FDUMMY, FORM1, FOR I←1 STEP 1 UNTIL 8 DO TEMP[I]); 10810140 T 0012

13 COMMENT *** VALUE OF TEMP 4 CHANGED TO MATCH THE CONVERT ROUTINE 10810145 T 0025

14 FROM OCT1142234163146314 TO OCT1142231463146314 ; 10810147 T 0025

15 FILL ANS[*] WITH OCT0000212223242526, OCT2610, OCT137, 10810150 T 0025

16 START OF SEGMENT ***** 192

17 OCT1142231463146315, OCT1152000000000000, 10810160 T 0027

18 OCT1, OCT0; 10810170 T 0027

19 192 1S 7 LONG, NEXT SEG 190

20 CVN←7; 10810180 T 0027

21 PNO←81; 10810190 T 0028

22 VERIFY 10810200 T 0029

23 END; 10810210 T 0029

24 190 1S 32 LONG, NEXT SEG 10

25 PROCEDURE P91; COMMENT FORWARD REFERENCE DECLARATION, KM, NOV 28 62; 10910010 T 0174

26 BEGIN 10910020 T 0174

27 LABEL L1,L2,L3,L4,L5,L6,L7; 10910025 T 0174

28 START OF SEGMENT ***** 193

29 INTEGER J,K; 10910030 T 0000

Data Documents/Inc.

PROCEDURE FORW (FOR1,FOR2); INTEGER FOR1, FOR2; FORWARD;

10910040 T 0000

1 INTEGER PROCEDURE FOWD (FWD1);

10910050 T 0000

2 INTEGER FWD1;

10910060 T 0000

3 BEGIN

10910070 T 0000

4 INTEGER I ;

10910080 T 0000

9 START OF SEGMENT ***** 194

10 I←0; IF FWD1⇒ THEN FORW(FWD1,I);

10910090 T 0000

11 FOWD← FWD1 + 1;

10910100 T 0003

12 END;

10910110 T 0004

16 194 T S 7 LONG, NEXT SEG 193

17 PROCEDURE FORW(FOR1,FOR2);

10910120 T 0000

18 INTEGER FOR1, FOR2;

10910130 T 0000

19 BEGIN

10910140 T 0000

20 FOR1← FOR2 + 3 ; FOR2 ← FOWD(FOR1);

10910150 T 0000

21 END;

10910160 T 0003

22 SWITCH FOVURD FORWARD;

10910170 T 0003

23 SWITCH FORVD ← L1, L2, FOVURD[J], L3;

10910180 T 0003

24 SWITCH FOVURD ← L4, L5, FORVD[K], FORVD[K];

10910190 T 0019

25 BOOLEAN BOUL ;

10910195 T 0035

26 BOUL← TRUE;

10910197 T 0035

27 J←1; K←2;

10910200 T 0036

28 FORW(J,K); TEMP[1] ← J; TEMP[2] ←K;

10910210 T 0037

29 J←3; K←1;

10910220 T 0042

30 GO TO IF BOUL THEN FORVD[3] ELSE FOVURD[K];

10910230 T 0043

31 L1: TEMP[3]←5 ; GO TO L7;

10910240 T 0048

32 L4: TEMP[3] ←10;

10910250 T 0050

33 L7: J←4; K←2; GO TO IF FALSE THEN L5 ELSE FORVD[K+1];

10910260 T 0052

34 L2: TEMP[4] ← 4; GO TO L3;

10910270 T 0059

35 L5: TEMP[4] ←44;

10910280 T 0062

36 L3:

10910290 T 0064

37 FILL ANS[*] WITH OCT3, OCT4, OCT5, OCT4;

10910300 T 0065

START OF SEGMENT ***** 195

195 TS 4 LONG, NEXT SEG 193

CVN + 4 ;

10910310 T 0066

PNO + 91;

10910320 T 0067

VERIFY

10910330 T 0068

END;

10910340 T 0068

193 TS 75 LONG, NEXT SEG 10

PROCEDURE P94; COMMENT PROCEDURE HEADING EK 28 NOV 62;

10940010 T 0174

BEGIN

10940020 T 0174

INTEGER I,J,K;

10940030 T 0174

START OF SEGMENT ***** 196

ARRAY A[0:2];

10940040 T 0000

INTEGER ARRAY IA[0:5];

10940050 T 0001

ALPHA ARRAY AA[0:2];

10940060 T 0003

BOOLEAN ARRAY BA[0:1];

10940070 T 0005

BOOLEAN T;

10940080 T 0007

REAL X;

10940090 T 0007

PROCEDURE P1(FP1,FP2)"FP2"(FP3,FP4,FP5,FP6)"FP6"(FP7);

10940100 T 0007

VALUE FP1,FP2;

10940110 T 0007

INTEGER FP1;

10940120 T 0007

REAL FP2;

10940130 T 0007

ARRAY FP3[0];

10940140 T 0007

INTEGER ARRAY FP4[*];

10940150 T 0007

ALPHA ARRAY FP5[0];

10940160 T 0007

BOOLEAN ARRAY FP6[0];

10940170 T 0007

BOOLEAN FP7;

10940180 T 0007

BEGIN

10940190 T 0007

TEMP[1] + FP1;

10940200 T 0007

TEMP[2] + FP2;

10940210 T 0009

FP3[0] + FP3[1] + FP3[2] + 3;

10940220 T 0011

FP4[4] + 4;

10940230 T 0014

1			
2		FP5[0] + "ONE";	10940240 T 0016
3		FP5[1] + "TWO";	10940250 T 0017
4		FP5[2] + "THREE";	10940260 T 0019
5		FP6[0] + FP6[1] + TRUE;	10940270 T 0020
6		FP7 + FALSE;	10940280 T 0022
7		END;	10940290 T 0023
8			
9		I + 1;	10940300 T 0027
10		X + 100;	10940310 T 0027
11		COMMENT CLUGE CARD REMOVE LATER *****; A[0] + A[0] ;	10940315 T 0028
12		COMMENT CLUGE CARD REMOVE LATER *****; IA[0] + IA[0] ;	10940315 T 0030
13		COMMENT CLUGE CARD REMOVE LATER *****; AA[0] + AA[0] ;	10940315 T 0031
14		COMMENT CLUGE CARD REMOVE LATER *****; BA[0] + BA[0] ;	10940315 T 0033
15		COMMENT THE ABOVE CARDS WERE INCLUDED TO GET AROUND PRESENCE BIT	10940316 T 0034
16		WHEN AN ARRAY WAS PASSED AS AN ACTUAL PARAMETER TO A PROCEDURE;	10940317 T 0034
17		P1(I,X, A,IA,AA,BA,T);	10940320 T 0034
18			
19		TEMP[3] + A[1];	10940330 T 0038
20		TEMP[4] + IA[4];	10940340 T 0040
21		TEMP[5] + AA[1];	10940350 T 0042
22		IF BA[0] THEN TEMP[6] + "TRU";	10940360 T 0044
23		IF T THEN TEMP[7] + "ERR";	10940370 T 0047
24		TEMP[8] + "F";	10940380 T 0050
25		FILL ANS[*] WITH OCT1, OCT144, OCT3, OCT4, OCT636646,	10940390 T 0051
26			
27			START OF SEGMENT ***** 197
28		OCT635164, OCT0, OCT26;	10940400 T 0053
29			197 T8 8 LONG, NEXT SEG 196
30		CVN + 8;	10940410 T 0053
31		PNO + 94;	10940420 T 0054
32		VERIFY	10940430 T 0055
33		END;	10940440 T 0055
34			
35			196 T5 64 LONG, NEXT SEG 10

PROCEDURE P95; COMMENT 5.12.3.1 STREAM VALUE PART. C. ZETHRAEUS, 12/3;

10950010 T 0174

BEGIN REAL STREAM PROCEDURE GETVAL(V); VALUE V;

10950020 T 0174

START OF SEGMENT ***** 198

BEGIN SI ← LOC V; DI ← LOC GETVAL; DS ← 1 WDS END;

10950030 T 0000

REAL A, B, C; BOOLEAN D, E, F; ARRAY MATRIX [1:3]; INTEGER I;

10950040 T 0001

REAL PROCEDURE IDENTITY(X); REAL X; IDENTITY ← X;

10950050 T 0003

BOOLEAN PROCEDURE EQUIVALENCE (A);

10950060 T 0008

BOOLEAN A; EQUIVALENCE ← A;

10950066 T 0008

TEMP[1] ← GETVAL (1);

10950070 T 0012

A ← 2; TEMP[2] ← GETVAL(A);

10950080 T 0015

B ← 3; TEMP[3] ← GETVAL(IDENTITY(B));

10950090 T 0019

TEMP[4] ← GETVAL(A * A + B);

10950100 T 0023

FOR I ← 1 STEP 1 UNTIL 3 DO MATRIX[I] ← I;

10950110 T 0027

I ← 2; TEMP[5] ← GETVAL(MATRIX[I]);

10950120 T 0032

TEMP[6] ← GETVAL((119), [43:3]);

10950130 T 0036

D ← E ← TRUE; F ← FALSE;

10950140 T 0039

TEMP[7] ← GETVAL(D);

10950150 T 0041

TEMP[8] ← GETVAL(TRUE);

10950160 T 0044

TEMP[9] ← GETVAL(NOT F OR E); TEMP[9] ← TEMP[9].[47:1];

10950170 T 0047

TEMP[10] ← GETVAL(EQUIVALENCE(D));

10950180 T 0053

FILL ANS[*] WITH OCT1, OCT2, OCT3, OCT7, OCT2, OCT5, OCT1,

10950190 T 0056

START OF SEGMENT ***** 199

OCT1, OCT1, OCT1;

10950200 T 0058

199 T S 10 LONG, NEXT SEG 198

CVN ← 10; PND ← 95;

10950210 T 0058

VERIFY

10950220 T 0060

END;

10950230 T 0060

198 T S 66 LONG, NEXT SEG 10

PROCEDURE P96; COMMENT STREAM PROCEDURE DECLARATIONS.

10960010 T 0174

5.12.3.2, DEC 6, 62, KM, J

10960020 T 0174

BEGIN

10960030 T 0174

INTEGER A, C;

10960040 T 0174

START OF SEGMENT ***** 200

ARRAY SRCE[0:5], DESTIN[1:9];

10960050 T 0000

STREAM PROCEDURE CHECKDECLARATIONS (ARY1, AROUT, A, C);

10960060 T 0003

VALUE A, C;

10960065 T 0003

BEGIN

10960070 T 0003

LOCAL AA, BB, STR, STRSRC, CC, DD;

10960080 T 0004

LABEL LBL1, LBL2;

10960090 T 0004

SI←ARY1; DI←AROUT;

10960100 T 0004

TALLY←A; AA←TALLY; TALLY←TALLY+AA; AA←TALLY;

10960110 T 0004

DS ← AA WDS;

10960120 T 0006

STR←DI; DI←LOC BB; DI←DI+7; DS←1 CHR; DI←STR;

10960130 T 0006

DS←BB CHR; DI←DI+BB; SI←SI+BB; STR←DI; DI←LOC CC;

10960140 T 0008

DI←DI+7; STRSRC←SI; SI←LOC C; SI←SI+7; DS←1 CHR;

10960150 T 0010

DI←STR; SI←STRSRC; DS←CC OCT;

10960155 T 0011

DS←BB DEC; DI←DI+CC; TALLY←BB; TALLY←TALLY+CC;

10960170 T 0012

DD←TALLY; DS←DD ADD; DS←DD NUM; SI←SI-DD;

10960180 T 0014

DI←DI-DD; DS←DD ZON; DS←DD RESET; DS←BB RESET;

10960190 T 0016

DS←DD SET; DS←CC SET; DI←DI+AA;

10960200 T 0018

IF BB SC = DC THEN DS←BB ADD;

10960210 T 0019

IF TOGGLE THEN DS←AA SUB;

10960220 T 0021

IF TOGGLE THEN GO TO LBL1;

10960230 T 0021

DS←3 LIT "BAD"; DS←5 LIT "A";

10960240 T 0022

LBL1: DS←3 LIT "COR"; DS←5 LIT "A";

10960250 T 0024

LBL2:

10960260 T 0025

END;

10960270 T 0025

FILL SRCE[*] WITH OCT2424242424242424, OCT2424242424242424,

10960280 T 0026

START OF SEGMENT ***** 201

OCT0333333333333301, OCT2000000000017763,

10960290 T 0028

OCT0102030405060700, OCT0102030707000000;

10960300 T 0028

201 TS 6 LONG, NEXT SEG 200

FILL DESTIN[*] WITH OCT0000000000000000, OCT0000000000000000,

10960310 T 0028

START OF SEGMENT ***** 202

OCT3333330000000000, OCT01,

10960320 T 0030

OCT0107510001020304, OCT0506070077153427,

10960330 T 0030

OCT0102030505000000;

10960340 T 0030

202 TS 7 LONG, NEXT SEG 200

A + 1; C + 1;

10960350 T 0030

CHECKDECLARATIONS(SRCE[0], DESTIN[1], A, C);

10960360 T 0032

FOR C+ 1 STEP 1 UNTIL 9 DO TEMP[C]+ DESTIN[C];

10960370 T 0036

FILL ANS[*] WITH OCT24242424242424, OCT24242424242424,

10960380 T 0041

START OF SEGMENT ***** 203

OCT3333330000000000, OCT01,

10960390 T 0043

OCT0107510002040610, OCT0506070000373427,

10960400 T 0043

OCT0102030302000000, OCT2221242121212121,

10960410 T 0043

OCT2346512121212121;

10960415 T 0043

203 TS 9 LONG, NEXT SEG 200

CVN+9;

10960420 T 0043

PNO+96;

10960430 T 0044

VERIFY

10960440 T 0045

END;

10960450 T 0045

200 TS 50 LONG, NEXT SEG 10

PROCEDURE P97; COMMENT 5.12.5.3 SET ADDRESS STATEMENT, CCZ, 12/4/62;

10970010 T 0174

BEGIN INTEGER A; INTEGER ARRAY B[1:2];

10970020 T 0174

START OF SEGMENT ***** 204

INTEGER STREAM PROCEDURE SETLOC(A); VALUE A;

10970030 T 0001

BEGIN SI + LOC A; DI+ LOC SETLOC; DS + 1 WDS END;

10970040 T 0001

INTEGER STREAM PROCEDURE SETSC(A); VALUE A;

10970050 T 0004

BEGIN SI + LOC A; SI + SC; SETSC + SI END;

10970060 T 0004

INTEGER STREAM PROCEDURE SETDC(A); VALUE A;

10970070 T 0006

BEGIN DI + LOC A; DI + DC; SETDC + DI END;

10970080 T 0006

A+1023; FILL B[*] WITH OCT3777770000000000, OCT3123450000000000;

10970090 T 0008

START OF SEGMENT ***** 205

205 TS 2 LONG, NEXT SEG 204

TEMP[1] + SETLOC(A);

10970110 T 0011

TEMP[2] + SETSC(B[1]);

10970120 T 0014

TEMP[3] + SETDC(B[2]);

10970130 T 0017

FILL ANS [*] WITH OCT1777, OCT377777, OCT312345;

10970140 T 0021

START OF SEGMENT ***** 206

206 TS 3 LONG, NEXT SEG 204

CVN + 3;

10970150 T 0023

PNO + 97;

10970160 T 0023

VERIFY

10970170 T 0024

END;

10970180 T 0024

204 TS 29 LONG, NEXT SEG 10

PROCEDURE P98; COMMENT STORE ADDRESS 5.12.5.4, C. ZETHRAEUS, 12/4/62;

10980010 T 0174

BEGIN INTEGER STREAM PROCEDURE STOSI(A); VALUE A;

10980020 T 0174

START OF SEGMENT ***** 207

BEGIN SI + A; STOSI + SI END;

10980030 T 0000

INTEGER STREAM PROCEDURE STODI(A); VALUE A;

10980040 T 0001

BEGIN DI + A; STODI + DI END;

10980050 T 0001

INTEGER STREAM PROCEDURE STOCI(A); VALUE A;

10980060 T 0003

BEGIN LABEL L1, L2; LOCAL EXIT;

10980070 T 0003

SI + A;

10980080 T 0004

EXIT + CI;

10980090 T 0004

GO TO L1;

10980100 T 0004

EXIT + CI;

10980110 T 0004

GO TO L1;

10980120 T 0005

EXIT + CI;

10980130 T 0005

GO TO L1;

10980140 T 0005

GO TO L2;

10980150 T 0005

L1: SI+SI+8; CI+EXIT;

10980160 T 0006

L2: STOCI + SI

10980170 T 0006

END;

10980180 T 0007

ARRAY A[1:3];

10980190 T 0008

FILL A[*] WITH OCT777777, OCT666666, OCT555555;

10980200 T 0010

START OF SEGMENT ***** 208

208 T S 3 LONG, NEXT SEG 207

TEMP[1] +STOSI(A[1]); TEMP[2]+STODI(A[2]); TEMP[3]+STOCI(A[3]);

10980210 T 0012

FILL ANS[*] WITH OCT777777, OCT666666, OCT555560;

10980220 T 0023

START OF SEGMENT ***** 209

209 T S 3 LONG, NEXT SEG 207

CVN+3; PND + 98; VERIFY

10980230 T 0025

END;

10980240 T 0026

207 T S 31 LONG, NEXT SEG 10

PROCEDURE P99; COMMENT USE OF THE STREAM ADD STATEMENT. 5.12.5.5;

10990010 T 0174

BEGIN

10990020 T 0174

INTEGER I;

10990025 T 0174

START OF SEGMENT ***** 210

STREAM PROCEDURE CHECKADDSTATEMENT (ARAYTEMP, ARAYTEMP25, FUNC,

10990030 T 0000

TWO);

10990040 T 0000

VALUE FUNC,TWO;

10990045 T 0000

BEGIN

10990050 T 0000

LOCAL A,B;

10990060 T 0000

DI+ARAYTEMP25; SI+LOC ARAYTEMP; DS + 1 WDS;

10990070 T 0000

SI+ARAYTEMP25; DI+LOC ARAYTEMP25; DS+ 1 WDS;

10990075 T 0000

DI+ARAYTEMP25; DS+8 LIT "A";

10990080 T 0001

DI+ARAYTEMP; DI+DI+8; SKIP 24 DB; DS + 24 SET;

10990090 T 0003

A+DI; 3(TALLY+TALLY+1)2(TALLY+TALLY+1; B+ TALLY;

10990100 T 0004

SI+LOC B; IF SC= "A" THEN JUMP OUT; DI+B); JUMP OUT);

10990110 T 0005

DI+A; DS+ 8 LIT "B"; A+DI;

10990120 T 0009

Data Documents/Inc.

	DI←A; DS←8 LIT "8";	10990130 T 0010
1	DI←DI+ FUNC; SI← LOC FUNC; SI←SI+ FUNC; DS← 6 CHR ;	10990140 T 0012
2		
3	END;	10990150 T 0013
4		
5	INTEGER PROCEDURE X(A);	10990160 T 0014
6		
7	INTEGER A;	10990170 T 0014
8		
9	BEGIN X ← A END;	10990180 T 0014
10		
11	CHECKADDSTATEMENT(TEMP, TEMP[25], X(2),2);	10990190 T 0017
12		
13	FILL ANS[*] WITH OCT21212121212121, OCT77777777;	10990200 T 0021
14		
15		START OF SEGMENT ***** 211
16		
17	OCT2222222222222222, OCT2222222222222222,	10990210 T 0023
18		
19	OCT2;	10990220 T 0023
20		
21		211 IS 5 LONG, NEXT SEG 210
22		
23	CVN ←5;	10990230 T 0023
24		
25	PNO←99;	10990240 T 0024
26		
27	VERIFY	10990250 T 0024
28		
29	END;	10990260 T 0024
30		
31		210 IS 28 LONG, NEXT SEG 10
32		
33	PROCEDURE P100; COMMENT SKIP ADDRESS STATEMENT H N B ;	11000010 T 0174
34		
35	BEGIN	11000020 T 0174
36		
37	INTEGER I;	11000025 T 0174
38		
39		START OF SEGMENT ***** 212
40		
41		
42	INTEGER STREAM PROCEDURE SKIPP(NO); VALUE NO;	11000030 T 0000
43		
44	BEGIN	11000040 T 0000
45		
46	SI ←NO; COMMENT M REG AND G REG ARE SET TO VALUE OF NO;	11000050 T 0000
47		
48	NO(SI ← SI ←NO);	11000060 T 0000
49		
50	SKIPP ← SI	11000070 T 0002
51		
52	END;	11000075 T 0002
53		
54	FOR I ← 1 STEP 1 UNTIL 10 DO TEMP[I] ← SKIPP(I);	11000100 T 0003
55		
56	FILL ANS[*] WITH OCT100001, OCT400002, OCT100004, OCT6,	11000110 T 0010
57		

START OF SEGMENT ***** 213

OCT100010, OCT400012, OCT100015,

11000120 T 0011

OCT20, OCT100023, OCT400026;

11000130 T 0011

213 rS 10 LONG, NEXT SEG 212

CVN+10; PND+100; VERIFY

11000140 T 0011

END ;

11000150 T 0013

212 rS 16 LONG, NEXT SEG 10

PROCEDURE P101; COMMENT TRANSFER WORDS 5. 12. 6. 3 H N B ;

11010010 T 0174

BEGIN

11010020 T 0174

REAL ARRAY SOURCE, DESTNT, DESTINTN[1:64];

11010030 T 0174

START OF SEGMENT ***** 214

STREAM PROCEDURE MVEWD(FROM, TOW, NUMBER); VALUE NUMBER;

11010040 T 0002

BEGIN

11010050 T 0002

SI ← FROM; SI ← SI + 2;

11010060 T 0003

DI ← TOW; DI ← DI + 4;

11010070 T 0003

DS ← NUMBER WDS ; COMMENT PLEASE ADJUST POINTERS TO

11010080 T 0004

START OF NEXT WORD;

11010090 T 0004

END;

11010100 T 0004

INTEGER I, N;

11010110 T 0004

FOR I ← 1 STEP 1 UNTIL 64 DO

11010120 T 0004

BEGIN

11010130 T 0006

SOURCE[I]+I ;

11010140 T 0006

DESTNT[I]+633

11010150 T 0007

END;

11010160 T 0008

MVEWD(SOURCE[1], DESTNT[1], 63); COMMENT BLOCK TRANSFER ;

11010170 T 0011

DESTINTN [2]+7;

11010180 T 0014

MVEWD(DESTINTN[1], DESTINTN[2], 10); COMMENT CHAIN ;

11010190 T 0016

TEMP[1] ← DESTNT[64];

11010200 T 0019

TEMP[2] ← DESTINTN[12];

11010210 T 0021

FILL ANS[*] WITH OCT100, OCT7;

11010220 T 0024

START OF SEGMENT ***** 215

215 rS 2 LONG, NEXT SEG 214

CVN ← 2; PNU ← 101; VERIFY

11010230 T 0025

END;

11010240 T 0027

214 rS 33 LONG, NEXT SEG 10

PROCEDURE P102; COMMENT 5.12.6.4 TRANSFER CHARACTERS H N B ;

11020010 T 0174

BEGIN

11020020 T 0174

STREAM PROCEDURE PRMT(SRC,DEST,S,D,C);

11020030 T 0174

START OF SEGMENT ***** 216

VALUE S, D, C;

11020035 T 0000

BEGIN

11020040 T 0000

SI ← SRC; SI ← SI + S;

11020050 T 0000

DI ← DEST; DI ← DI + D;

11020060 T 0000

DS ← C CHR

11020070 T 0001

END;

11020080 T 0002

INTEGER I, NN, DDCC, VAR, VAR2;

11020090 T 0002

VAR ← VAR2 + 1;

11020095 T 0002

FOR I ← 3 STEP 1 UNTIL 6 DO

11020100 T 0004

PRMT(VAR, VAR2, 7, I, 1); TEMP[1] ← VAR2;

11020110 T 0005

PRMT(VAR2, VAR, 3, 6, 2); TEMP[2] ← VAR;

11020120 T 0010

FILL ANS[+] WITH OCT0101010101, OCT0101;

11020130 T 0014

START OF SEGMENT ***** 217

217 rS 2 LONG, NEXT SEG 216

CVN ← 2; PNU ← 102; VERIFY

11020140 T 0016

END;

11020150 T 0017

216 rS 22 LONG, NEXT SEG 10

PROCEDURE P103; COMMENT STREAM PROCEDURE INPUT CONVERT, KM, DEC 3.;

11030010 T 0174

BEGIN

11030020 T 0174

ARRAY SRC[0:16], DESTN[1:8];

11030030 T 0174

START OF SEGMENT ***** 218

INTEGER C;

11030040 T 0003

STREAM PROCEDURE INP (A, B, X, Y, Z, Q);

11030050 T 0003

VALUE X, Y, Z, Q;

11030060 T 0003

Data Documents/Inc.

BEGIN

11030080 T 0003

SI ← A ; DI ← B ;

11030090 T 0004

DS ← 1 OCT ; SI ← SI +6; DS ← 4 OCT; SI ← SI +5;

11030100 T 0004

DS ← 8 OCT;

11030110 T 0005

DS←Y OCT; SI←SI+6; DS←X OCT;SI←SI+X; SI←SI+Y;

11030120 T 0005

DS ← Z OCT;

11030130 T 0008

DS← OCT; DS ← Q OCT;

11030140 T 0008

END;

11030150 T 0009

FILL SRCE[*] WITH OCT5100000000000001, OCT0203040000000000,

11030160 T 0009

START OF SEGMENT ***** 219

OCT0102030405060750, OCT1100000000000001,

11030170 T 0011

OCT0203440000000000, OCT0102030405060710,

11030180 T 0011

OCT1010101010101010;

11030190 T 0011

219 7S 7 LONG, NEXT SEG 218

INP(SRCE[0], DESTN[1], 4, 1, 8, 0);

11030200 T 0011

FOR C+1 STEP 1 UNTIL 8 DO TEMP[C]←DESTN[C];

11030210 T 0014

FILL ANS[*] WITH OCT20000000000000011, OCT2322,

11030220 T 0020

START OF SEGMENT ***** 220

OCT2000000057060516, OCT11, OCT2000000000002322,

11030230 T 0022

OCT57060516, OCT10, OCT0;

11030240 T 0022

220 8S 8 LONG, NEXT SEG 218

CVN←8;

11030250 T 0022

PNQ← 108;

11030260 T 0023

VERIFY

11030270 T 0024

END;

11030280 T 0024

218 9S 29 LONG, NEXT SEG 10

PROCEDURE P104; COMMENT STREAM PROCEDURE OUTPUT CONVERT, KM, DEC 3;

11040010 T 0174

BEGIN

11040020 T 0174

ARRAY SRCE[0:8], DESTN[1:8];

11040030 T 0174

START OF SEGMENT ***** 221

INTEGER C, F, GH;

11040040 T 0003

Data Documents/Inc.

	STREAM PROCEDURE DUP(A, B, X, Y, Z, Q, STV);	11040050 T 0003
1	VALUE X, Y, Z, Q;	11040055 T 0003
2		
3	BEGIN	11040080 T 0003
4		
5	LOCAL PQR;	11040085 T 0004
6		
7	SI+A; DI+B; TALLY+0;	11040090 T 0004
8		
9	DS+ 2 DEC; DI+DI + 5; DS+4 DEC; DI+ DI+5;	11040100 T 0004
10		
11	DS+ 8 DEC ;	11040110 T 0005
12		
13	DS+Y DEC; DI+DI+X; DI+DI+Y; DS+X DEC; DI+DI+X;	11040120 T 0006
14		
15	DI+DI+Y;	11040125 T 0008
16		
17	DS+Z DEC;	11040130 T 0009
18		
19	DS + DEC; DS + Q DEC; DI+DI+8; DS+ 3 DEC;	11040140 T 0009
20		
21	IF TOGGLE THEN TALLY+5; PQR+TALLY;	11040150 T 0010
22		
23	SI+LOC PQR; DI+STV; DS+1 WDS;	11040153 T 0011
24		
25	END;	11040155 T 0012
26		
27	COMMENT DS+ DEC WILL CONVERT 1 OCTAL WORD TO 1 DEC CHR. DS+0 DEC WILL	11040156 T 0012
28		
29	* *****NOT EFFECT THE SOURCE OR DESTINATION STRING NOR CONVERT ;	11040157 T 0012
30		
31	FILL SRCE [*] WITH OCT2000000000000011, OCT2000000000003434,	11040160 T 0012
32		
33		START OF SEGMENT ***** 222
34		
35	OCT2000000056740516, OCT11, OCT3434,	11040170 T 0014
36		
37	OCT56740516, OCT7, OCT2450, OCT7777777777777777;	11040180 T 0014
38		
39		222 ,S 9 LONG, NEXT SEG 221
40		
41	F + 4;	11040185 T 0014
42		
43	DUP(SRCE[0], DESTN[1], F, 1, 8, 0, GH);	11040190 T 0015
44		
45	FOR C+1 STEP 1 UNTIL 8 DO TEMP[C]+ DESTN[C];	11040200 T 0019
46		
47	IF GH=0 THEN TEMP[9]+5 ELSE TEMP[9]+0;	11040205 T 0024
48		
49	FILL ANS [*] WITH OCT0051000000000001, OCT1002400000000000,	11040210 T 0030
50		
51		START OF SEGMENT ***** 223
52		
53	OCT0102030004070150, OCT1100000000000110,	11040220 T 0031
54		
55	OCT0200000000000001, OCT0203000407011007,	11040230 T 0031
56		
57	OCT0, OCT0302000000000000, OCT5;	11040240 T 0031

CVN ← 9;

11040250 T 0031

PNG ← 104;

11040260 T 0032

VERIFY

11040270 T 0033

END;

11040280 T 0033

221 18 39 LONG, NEXT SEG 10

PROCEDURE P105; COMMENT STREAM PROCEDURE TRANSFER AND ADD STATEMENT

11050010 T 0174

5.12.6.7 DEC 4. 1962 KM. ;

11050020 T 0174

BEGIN

11050030 T 0174

ARRAY SRCE [1:13] , DESTN [1:13];

11050040 T 0174

START OF SEGMENT ***** 224

INTEGER C, QR, QRS;

11050050 T 0003

STREAM PROCEDURE TRADD (A, B, X, Y, Z, Q, R);

11050060 T 0003

VALUE X, Y, Z;

11050065 T 0003

BEGIN

11050070 T 0003

LOCAL QQ, RR;

11050075 T 0004

SI←Q; DI←LOC QQ; DS←1 WDS; SI←R; DI←LOC RR; DS←1 WDS;

11050077 T 0004

SI←A; DI←B; TALLY←0;

11050080 T 0005

DS←2 ADD; SI←SI+5; DI←DI+5; SKIP 4 SB; SKIP 4 DB;

11050090 T 0006

DS←X ADD; SI←SI+2; DI←DI+2; DS←3 ADD ; SI←A; DI←B;

11050100 T 0007

SI←SI+16; DI←DI+16;

11050110 T 0009

DS←Y ADD; DS←Z ADD;

11050120 T 0009

SI←A; DI←B; SI←SI+40; DI←DI+40;

11050130 T 0010

DS←2 SUB; SI←SI+5; DI←DI+RR; SKIP 4 SB; SKIP 4 DB;

11050140 T 0011

DS←X SUB; SI←SI+2; DI←DI+2; DS←3 SUB; SI←A; DI←B;

11050150 T 0013

DI←DI+56; SI←SI+56;

11050160 T 0015

DS←1 ADD; IF TOGGLE THEN Q←TALLY;

11050190 T 0015

DI←DI+5; SI←SI+5; DS←5 ADD;

11050200 T 0016

IF TOGGLE THEN RR←TALLY;

11050210 T 0017

DI←DI+5; SI←SI+5; DS←ADD; DS←SUB;

11050220 T 0017

DI←R; SI←LOC RR; DS←1 WDS;

11050225 T 0018

END;

11050230 T 0019

Data Documents/Inc.

FILL SRCE[*] WITH OCT0411000000000077, OCT2706450000672747,

11050250 T 0019

START OF SEGMENT ***** 225

OCT2345103123450704, OCT4527274700000000,

11050260 T 0021

OCT0000000000000000, OCT0407000000000077,

11050270 T 0021

OCT0607071111020344, OCT1160000000001111,

11050280 T 0021

OCT1111110000000000, OCT2222222222222222;

11050290 T 0021

225 T S 10 LONG, NEXT SEG 224

FILL DESTN[*] WITH OCT0411000000000077, OCT2706650000274327,

11050320 T 0021

START OF SEGMENT ***** 226

OCT2727274510442345, OCT1031234527312731,

11050330 T 0023

OCT2741000000000000, OCT0207000000000077,

11050340 T 0023

OCT1107471111030404, OCT5100000000001111,

11050350 T 0023

OCT1111110000000000, OCT0000000000000000;

11050360 T 0023

226 T S 10 LONG, NEXT SEG 224

QR+5; QRS+ 5;

11050385 T 0023

TRADD(SRCE[1], DESTN[1], 3, 12, 6, QR, QRS);

11050390 T 0025

FOR C+1 STEP 1 UNTIL 10 DO TEMP[C]+ DESTN[C];

11050400 T 0029

IF QR=0 THEN TEMP[11]+1 ELSE TEMP[11]+5;

11050415 T 0034

IF QRS=0 THEN TEMP[12]+2;

11050417 T 0040

FILL ANS[*] WITH OCT1110000000000077, OCT440,

11050420 T 0043

START OF SEGMENT ***** 227

OCT0103060502000100, OCT0407014207110711,

11050430 T 0044

OCT0741000000000000, OCT0240000000000077,

11050440 T 0044

OCT0605441111050710, OCT1111,

11050450 T 0044

OCT1111100000000000, OCT0242000000000000,

11050460 T 0044

OCT5, OCT2;

11050470 T 0044

227 T S 12 LONG, NEXT SEG 224

CVN+ 12;

11050490 T 0044

PNO + 105;

11050500 T 0045

VERIFY

11050510 T 0046

END;

11050520 T 0046

Data Documents/Inc.

1 PROCEDURE P106; COMMENT STREAM DESTINATION STATEMENT TRANSFER

11060010 T 0174

2 CHARACTER PORTIONS EK 5 DEC 62;

11060020 T 0174

3 BEGIN

11060030 T 0174

4 ALPHA ARRAY A, B, C, D[1:6];

11060040 T 0174

5 START OF SEGMENT ***** 228

6 ALPHA X, Y;

11060050 T 0002

7 INTEGER I, J;

11060060 T 0002

8 STREAM PROCEDURE STPROC(F1, F2, F3, F4, F5, F6);

11060070 T 0002

9 BEGIN

11060080 T 0002

10 LABEL L1, L2, L3, L4, L5;

11060090 T 0003

11 LOCAL C1, C2, C3, C4;

11060100 T 0003

12 SI←F1;

11060110 T 0003

13 DI←F2;

11060120 T 0003

14 DS ← 1 ZON;

11060130 T 0003

15 DS ← 3 ZON;

11060140 T 0003

16 DS ← 8 ZON;

11060150 T 0004

17 DS ← 4 ZON;

11060160 T 0004

18 DS ← 32 ZON;

11060170 T 0004

19 SI←F3;

11060180 T 0004

20 DI←F4;

11060185 T 0005

21 DS← 1 NUM ;

11060190 T 0005

22 DS← 1 NUM;

11060200 T 0005

23 IF TOGGLE THEN GO TO L1;

11060210 T 0005

24 L2: DS ← 3 NUM;

11060220 T 0006

25 DS ← 8 NUM;

11060230 T 0007

26 DS ← 4 NUM;

11060240 T 0007

27 IF TOGGLE THEN GO TO L3;

11060250 T 0007

28 GO TO L4;

11060260 T 0008

29 L3: DS ← 32 NUM;

11060270 T 0008

30 GO TO L5;

11060280 T 0009

L1: C1 ← DI;

11060290 T 0009

DI ← F5; DI ← DI+3;

11060300 T 0010

DS ← 5 LIT "MINUS";

11060310 T 0010

DI ← C1;

11060320 T 0011

GO TO L2;

11060330 T 0012

L4: C2←DI;

11060335 T 0012

DI←F6; DI← DI+4;

11060340 T 0013

DS ← 4 LIT "PLUS";

11060360 T 0013

DI ← C2;

11060370 T 0014

GO TO L3;

11060380 T 0014

L5:

11060390 T 0015

END;

11060400 T 0015

FILL A[*] WITH OCT2122232425262730, OCT2122232425262730,

11060410 T 0015

START OF SEGMENT ***** 229

OCT2142434445464750, OCT2142434445464750,

11060420 T 0017

OCT2162636465666770, OCT2162636465666770;

11060430 T 0017

229 T S 6 LONG, NEXT SEG 228

FILL B[*] WITH OCT0102030405060710, OCT0102030405060710,

11060440 T 0017

START OF SEGMENT ***** 230

OCT02030405060710, OCT0102030405060710,

11060450 T 0019

OCT02030405060710, OCT0102030405060710;

11060460 T 0019

230 T S 6 LONG, NEXT SEG 228

FILL C[*] WITH OCT4142434445464750, OCT6162636465666770,

11060470 T 0019

START OF SEGMENT ***** 231

OCT2122232425262730, OCT2122232425262730,

11060480 T 0021

OCT4142434445464750, OCT6162636465666770;

11060490 T 0021

231 T S 6 LONG, NEXT SEG 228

FILL D[*] WITH OCT7777777777777777, OCT7777777777777777,

11060500 T 0021

START OF SEGMENT ***** 232

OCT7777777777777777, OCT7777777777777777,

11060510 T 0023

OCT7777777777777777, OCT7777777777777777;

11060520 T 0023

Data Documents/Inc.

232 TS 6 LONG, NEXT SEG 228

1 STPROC(A[1], B[1], C[1], D[1], X, Y);

11060525 T 0023

2 FOR I ← 1 STEP 1 UNTIL 6 DO

11060530 T 0029

3 BEGIN

11060540 T 0030

4 TEMP[I] ← B[I];

11060550 T 0030

5 TEMP[I+6] ← D[I];

11060560 T 0032

6 END;

11060570 T 0035

7 TEMP[13] ← X;

11060580 T 0037

8 TEMP[14] ← Y;

11060590 T 0039

9 FILL ANS[*] WITH OCT2122232425262730, OCT2122232425262730,

11060600 T 0041

10 START OF SEGMENT ***** 233

11 OCT2042434445464750, OCT2142434445464750,

11060610 T 0043

12 OCT2062636465666770, OCT2162636465666770,

11060620 T 0043

13 OCT0102030405060710, OCT0102030405060710,

11060630 T 0043

14 OCT0102030405060710, OCT0102030405060710,

11060640 T 0043

15 OCT0102030405060710, OCT0102030405060710,

11060650 T 0043

16 OCT4431456462, OCT47436462;

11060660 T 0043

17 233 TS 14 LONG, NEXT SEG 228

18 CVN ← 14;

11060670 T 0043

19 PND ← 106;

11060680 T 0043

20 VERIFY

11060690 T 0044

21 END;

11060700 T 0044

22 228 TS 50 LONG, NEXT SEG 10

23 PROCEDURE P107; COMMENT STREAM DESTINATIONAL STATEMENT LITERAL

11070010 T 0174

24 CHARACTERS EK 5 DEC 62;

11070020 T 0174

25 BEGIN

11070030 T 0174

26 ALPHA ARRAY A[1:6], B[1:3];

11070040 T 0174

27 START OF SEGMENT ***** 234

28 INTEGER I, J;

11070050 T 0003

29 STREAM PROCEDURE STPR1(F1, F2);

11070060 T 0003

30 BEGIN

11070070 T 0003

Data Documents/Inc.

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DI←F1; 11070080 T 0004

DS← 1 LIT "A"; 11070090 T 0004

DS← 3 LIT "BCD"; 11070100 T 0004

DS ← 8 LIT "EFGHI/*=" ; 11070110 T 0005

DS← 4 LIT "KEH"; 11070120 T 0006

DS← 8 LIT "AY"; 11070130 T 0007

DS← 16 LIT "B"; 11070140 T 0008

DS←1 LIT "ASTU"; 11070150 T 0011

DS ← 7 LIT "JKLMNOPQ"; 11070160 T 0011

DI←F2; 11070170 T 0012

DS←16 LIT "APASADENA,CALIL,"; 11070180 T 0013

DS←8 LIT "AUSA"; 11070190 T 0015

END; 11070200 T 0016

STPR1(A[1],B[1]); 11070210 T 0016

FOR I ← 1 STEP 1 UNTIL 6 DO TEMP[I] ← A [I]; 11070220 T 0019

FOR J ← 1 STEP 1 UNTIL 3 DO TEMP[J+6] ← B[J]; 11070230 T 0025

FILL ANS[*] WITH OCT2122232425262730, OCT3161537542253042, 11070240 T 0032

START OF SEGMENT ***** 235

OCT2170217021702170, OCT2222222222222222, 11070250 T 0034

OCT2222222222222222, OCT2141424344454647, 11070260 T 0034

OCT2147216221242545, OCT2172232143314332, 11070270 T 0034

OCT2164622121646221; 11070280 T 0034

235 rS 9 LONG, NEXT SEG 234

CVN ← 9; 11070290 T 0034

PNO ← 107; 11070300 T 0034

VERIFY 11070310 T 0035

END; 11070320 T 0035

234 rS 40 LONG, NEXT SEG 10

PROCEDURE P108; COMMENT LITERAL BITS EK G DEC 62; 11080010 T 0174

BEGIN 11080020 T 0174

ALPHA ARRAY A, B [1:4]; 11080030 T 0174

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1      INTEGER I;
2
3      STREAM PROCEDURE STPP2(F1,F2);
4
5          BEGIN
6
7              DI + F1;
8
9              DS + 24 SET;
10
11             DS + 48 SET;
12
13             DS+60 SET; DS+ 60 SET;
14
15             DI + F2;
16
17             DS + 1 RESET;
18
19             DS + 48 RESET;
20
21             DS+60 RESET; DS+36 RESET;
22
23             DS + 47 RESET;
24
25             SI+F1; DI+F1;      4(IF SC="" THEN DS+1 RESET; DI+DI+7;
26
27                                 SI+SI+8);
28
29             END;
30
31             FILL ANS[*] WITH OCT0, OCT0, OCT0, OCT0;

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11080040 T 0002
11080050 T 0002
11080060 T 0002
11080070 T 0003
11080080 T 0003
11080090 T 0003
11080100 T 0003
11080110 T 0004
11080120 T 0004
11080130 T 0004
11080140 T 0005
11080150 T 0005
11080155 T 0005
11080157 T 0007
11080160 T 0008
11080170 T 0008

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38      FILL B[*] WITH OCT7777777777777777, OCT7777777777777777;
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11080180 T 0010

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11080190 T 0012
11080200 T 0012
11080210 T 0014
11080220 T 0015
11080230 T 0015
11080240 T 0017
11080250 T 0020

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78      FILL ANS[*] WITH OCT3777777777777777, OCT3777777777777777;

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11080260 T 0022

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START OF SEGMENT ***** 239

OCT3777777777777777, OCT3777777777777777,

11080270 T 0024

OCTO, OCTO, OCTO, OCTO;

11080280 T 0024

239 TS 8 LONG, NEXT SEG 236

CVN + 8;

11080290 T 0024

PNQ + 108;

11080300 T 0025

VERIFY

11080310 T 0026

END;

11080320 T 0026

236 TS 31 LONG, NEXT SEG 10

PROCEDURE P109; COMMENT 5.12.7 STREAM GO TO STATEMENT H N B ;

11090010 T 0174

BEGIN

11090020 T 0174

STREAM PROCEDURE GOTO (SRC,DST,SRS,DSN);

11090030 T 0174

START OF SEGMENT ***** 240

BEGIN

11090040 T 0000

LABEL H;

11090050 T 0000

SI + SRC ;

11090060 T 0000

DI + DST;

11090070 T 0000

DS + 1 WDS;

11090080 T 0000

GO TO H ;

11090090 T 0000

SI + SRS;

11090100 T 0001

DI + DSN;

11090110 T 0001

DS + 1 WDS;

11090120 T 0001

H:END;

11090130 T 0001

TEMP[1]+63;

11090140 T 0002

TEMP[2]+ 63;

11090150 T 0004

TEMP[3]+ 17;

11090160 T 0006

TEMP[4]+ 17;

11090170 T 0008

GOTO(TEMP[1],TEMP[3],TEMP[2],TEMP[4]);

11090180 T 0010

FILL AN[*] WITH OCT??, OCT??, OCT??, OCT21;

11090190 T 0014

START OF SEGMENT ***** 241

241 TS 4 LONG, NEXT SEG 240

Data Documents/Inc.

CVN +4; PNO+109; VERIFY

11090200 T 0016

END;

11090210 T 0017

240 IS 19 LONG, NEXT SEG 10

PROCEDURE P110; COMMENT 5.12.8 SKIP BIT H N B;

11100010 T 0174

BEGIN

11100020 T 0174

STREAM PROCEDURE SKBITS(SRC,DST,S,D,N);

11100030 T 0174

START OF SEGMENT ***** 242

VALUE S, D, N;

11100035 T 0000

BEGIN

11100040 T 0000

SI + SRC; DI+ DST;

11100050 T 0000

SKIP S SB; SKIP D DB;

11100060 T 0000

DS + N CHR

11100070 T 0001

END;

11100080 T 0002

FILL TEMP[*] WITH OCT1030507;

11100090 T 0002

START OF SEGMENT ***** 243

243 IS 1 LONG, NEXT SEG 242

SKBITS (TEMP[1], TEMP[2], 30,36,1);

11100100 T 0004

FILL ANS[*] WITH OCT1030507, OCT0300;

11100110 T 0008

START OF SEGMENT ***** 244

244 IS 2 LONG, NEXT SEG 242

CVN +2; PNO +110; VERIFY

11100120 T 0009

END;

11100130 T 0011

242 IS 12 LONG, NEXT SEG 10

PROCEDURE P111; COMMENT 5.12.9 STREAM TALLY H N B;

11110010 T 0174

BEGIN

11110020 T 0174

INTEGER I;

11110025 T 0174

START OF SEGMENT ***** 245

INTEGER STREAM PROCEDURE SQUART(N);VALUE N;

11110030 T 0000

BEGIN

11110040 T 0000

TALLY+0;

11110050 T 0000

N(N(TALLY+TALLY+1));

11110060 T 0000

SQUART ← TALLY

11110070 T 0003

END;

11110080 T 0003

FOR I ← 1 STEP 1 UNTIL 10 DO

11110090 T 0004

TEMP[I] ← SQUART(I); COMMENT I+2 ;

11110100 T 0006

FILL ANS[*] WITH OCT1, OCT4, OCT11, OCT20, OCT31, OCT44,

11110110 T 0011

START OF SEGMENT ***** 246

OCT61, OCT10, OCT21, OCT44;

11110120 T 0012

246 IS 10 LONG, NEXT SEG 245

CVN+10; PNO+111; VERIFY

11110130 T 0012

END;

11110140 T 0014

245 IS 17 LONG, NEXT SEG 10

PROCEDURE P112; COMMENT STREAM NEST STATEMENT EK 11 DEC 62;

11120010 T 0174

BEGIN

11120020 T 0174

INTEGER A,B,E,F,G,J,K;

11120030 T 0174

START OF SEGMENT ***** 247

ARRAY C[0:19],D[0:19], H[0:8], I[0:8];

11120040 T 0000

STREAM PROCEDURE STPRN (F1,F2,F3,F4,F5,F6,F7,F8,F9,F10);

11120050 T 0007

BEGIN

11120060 T 0007

LABEL L1,L2,L3,L5,L6,L7;

11120070 T 0008

LOCAL V1,V2,V3,V4;

11120080 T 0008

TALLY ← 0;

11120090 T 0008

8(SI←LOC F1; DI ← LOC F2;

11120100 T 0008

V1 ← SI; V2←DI; DI←V2; SI←V1;

11120110 T 0009

TALLY ← TALLY +1);

11120120 T 0010

DI ← F2;

11120130 T 0010

F2 ← TALLY;

11120140 T 0010

SI ← LOC F2;

11120150 T 0011

DS ← 1 WDS;

11120160 T 0011

TALLY ← 1;

11120170 T 0011

V1←TALLY;

11120175 T 0011

	SI + F3;	11120180 T 0012
1	DI + F4 ;	11120190 T 0012
2		
3	8(DI+DI+V1;SI+SI+V1);	11220200 T 0012
4		
5	2 (DS+1 WDS; DS+8 CHR; DS+8 OCT; DS+8 DEC;	11120210 T 0014
6		
7	GO TO L1; DS+ 1 WDS; L1: DS +8 ADD; DS +8 SUB;	11120220 T 0015
8		
9	DS + 8 ZON; DS+ 8 NUM) ;	11120230 T 0016
10		
11	GO TO L2;	11120240 T 0017
12		
13	TALLY + TALLY +1;	11120250 T 0017
14		
15	L2: 3 (DS +2 LIT "E"; DS + 6 SET; DS + 6 RESET;	11120260 T 0017
16		
17	GO TO L3; JUMP OUT; L3: SKIP 6 DB; SKIP 6 SB;	11120270 T 0019
18		
19	DS + 3 LIT "EK");	11120280 T 0020
20		
21	TALLY + 0;	11120290 T 0022
22		
23	DI + F5;	11120300 T 0022
24		
25	2 (TALLY + TALLY+1; 2 (TALLY + TALLY+1; 2 (TALLY +	11120310 T 0022
26		
27	TALLY+1; JUMP OUT); JUMP OUT; TALLY + TALLY+1); TALLY	11120320 T 0023
28		
29	+ TALLY +1) ;	11120330 T 0026
30		
31	F5 + TALLY;	11120340 T 0026
32		
33	SI + LOC F5;	11120350 T 0026
34		
35	DS + 1 WDS;	11120360 T 0027
36		
37	TALLY + 0; DI + F6;	11120370 T 0027
38		
39	3 (TALLY + TALLY+1; 2(TALLY + TALLY+1); F6 + TALLY);	11120380 T 0027
40		
41	SI + LOC F6;	11120390 T 0029
42		
43	DS + 1 WDS;	11120400 T 0029
44		
45	TALLY + 0; DI + F7;	11120410 T 0030
46		
47	3(3(TALLY + TALLY+1); TALLY + TALLY+1);	11120430 T 0030
48		
49	F7 + TALLY;	00111204 T 0032
50		
51	SI+ LOC F7;	11120450 T 0032
52		
53	DS + 1 WDS;	11120460 T 0032
54		
55	DI + F9 ;	11120470 T 0032
56		
57	SI + F8 ;	11120480 T 0033

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4 (IF 1 SC = DC THEN BEGIN IF 1 SC = DC THEN          11120500 T 0035
    DS + 2 CHR END);                                  11120510 T 0036
2( SKIP 1 SB; SKIP 1 DB);                             11120511 T 0037
    IF SB THEN 2 (4(DS + 1 CHR)););                  11120520 T 0038
DI + DI-2; SI + SI-2;                                11120521 T 0040
2 (IF SC = ALPHA THEN BEGIN IF TOGGLE THEN          11120530 T 0041
    DS + 4 CHR END) ;                                11120540 T 0042
TALLY + 0;                                            11120550 T 0043
3 (IF 8 SC = DC THEN 8 (IF SC = ALPHA THEN          11120560 T 0043
    JUMP OUT 2 TO L5;                                11120561 T 0045
    TALLY + TALLY+1);TALLY + TALLY +1);            11120570 T 0046
L6: DI + F10;                                         11120580 T 0047
F10 + TALLY;                                         11120590 T 0047
SI + LOC F10;                                        11120600 T 0047
DS + 1 WDS; GO TO L7;                                11120610 T 0047
L5: DS + 5 LIT "0"; DS + 3 LIT "SWD";                11120620 T 0048
GO TO L6 ; L7;                                       11120621 T 0050
END;                                                  11120630 T 0051
FILL C[*] WITH OCT212223, OCT12345670, OCT3654321012345670, 11120640 T 0051
                                                                START OF SEGMENT ***** 248
OCT207, OCT33, OCT0101010101010101, OCT0202020202020202, 11120650 T 0053
OCT2040606060404020, OCT0102030405060700, OCT313233, 11120660 T 0053
OCT1020304055627377, OCT604, OCT22, OCT0102030405060710, 11120670 T 0053
OCT1111111111111111, OCT006020, OCT01020304, OCT0, OCT0, OCT0; 11120680 T 0053
                                                                248 rS 20 LONG, NEXT SEG 247
FILL D[*] WITH OCT2223, OCT0, OCT0, OCT0, OCT0, OCT10101010101010, 11120690 T 0053
                                                                START OF SEGMENT ***** 249
OCT0404040404040404, OCT0101010101010101 , OCT0, OCT10, 11120700 T 0055
OCT0, OCT0, OCT0, OCT1111111111111111, OCT0101010101010101, 11120710 T 0055
OCT0, OCT0, OCT0, OCT0, OCT0;                          11120720 T 0055

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Data Documents/Inc.

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249 YS 20 LONG, NEXT SEG 247

FILL H [*] WITH OCT2421222324212223, OCT2122777723247777,

11120730 T 0055

START OF SEGMENT ***** 250

OCT2526777723247777, OCT3011213150604423,

11120740 T 0057

OCT3766554433221100, OCT2101020322040506, OCT0,

11120750 T 0057

OCT2021212121000000, OCT2100000000000000;

11120751 T 0057

250 YS 9 LONG, NEXT SEG 247

FILL I [*] WITH OCT0, OCT2122000023240000, OCT2526000023240000,

11120760 T 0057

START OF SEGMENT ***** 251

OCT3700000000000000, OCT3700000000000000, OCT0, OCT0,

11120770 T 0059

OCT2021212121000000, OCT2100000000000000;

11120771 T 0059

251 YS 9 LONG, NEXT SEG 247

STPRN (A,B,C,D,E,F,G,H,I,J);

11120780 T 0059

TEMP[1] ← B;

11120790 T 0064

FOR K ← 0 STEP 1 UNTIL 19 DO TEMP[K+2] ← D[K];

11120800 T 0065

TEMP[22] ← E;

11120810 T 0071

TEMP[23] ← F;

11120820 T 0073

TEMP[24] ← G;

11120830 T 0075

FOR K ← 0 STEP 1 UNTIL 8 DO TEMP[K+25] ← I[K];

11120840 T 0077

TEMP[34] ← J;

11120850 T 0082

FILL ANS [*] WITH OCT10, OCT2223, OCT12345670,

11120860 T 0084

START OF SEGMENT ***** 252

OCT3654321012345670, OCT33, OCT207, OCT1111111111111111,

11120870 T 0086

OCT0202020202020202, OCT2141616161414121,

11120880 T 0086

OCT0102030405060700, OCT313233, OCT1020304055627377,

11120890 T 0086

OCT100, OCT110, OCT0102030405060707, OCT1010101010101050,

11120900 T 0086

OCT006020, OCT01020304, OCT2525770000254225,

11120910 T 0086

OCT2525770000254225, OCT2525770000254225, OCT10, OCT11,

11120920 T 0086

OCT14, OCT2421222324212223, OCT2122777723247777,

11120930 T 0086

OCT2526777723247777, OCT3711213150604423, OCT3700554433221100,

11120940 T 0086

OCT2101020322040506, OCT0, OCT2021212121000000,

11120950 T 0086

OCT626624,OCT11;

11120951 T 0086

252 IS 34 LONG, NEXT SEG 247

CVN + 34;

11120960 T 0086

PND + 112;

11120970 T 0087

VERIFY

11120980 T 0087

END;

11120990 T 0087

247 IS 94 LONG, NEXT SEG 10

PROCEDURE P113; COMMENT JUMPOUT STATEMENT EK 10 DEC 62;

11130010 T 0174

BEGIN

11130020 T 0174

INTEGER A,B,C,D,E;

11130030 T 0174

START OF SEGMENT ***** 253

STREAM PROCEDURE STPRJ (F1,F2,F3,F4,F5);

11130050 T 0000

BEGIN

11130060 T 0000

LABEL L1,L2,L3;

11130070 T 0000

DI + F1;

11130080 T 0000

TALLY + 0;

11130090 T 0000

4 (TALLY + TALLY +1; JUMP OUT) ;

11130100 T 0000

F1 + TALLY;

11130110 T 0002

SI + LOC F1;

11130120 T 0002

DS + 1 WDS;

11130130 T 0002

TALLY + 0;

11130140 T 0002

DI + F2;

11130150 T 0003

4(8(TALLY + TALLY+1; JUMP OUT); TALLY+TALLY+1;

11130160 T 0003

GO TO L1; TALLY + TALLY+1; L1: JUMP OUT) ;

11130170 T 0005

TALLY + TALLY+1;

11130180 T 0007

F2 + TALLY;

11130190 T 0007

SI + LOC F2;

11130200 T 0007

DS + 1 WDS;

11130210 T 0007

DI + F3;

11130220 T 0008

TALLY + 0;

11130230 T 0008

8(8(TALLY+TALLY+1; JUMP OUT); 8(TALLY+TALLY+1;

11130240 T 0008

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JUMP OUT); JUMP OUT TO L2; TALLY+TALLY+1; JUMP OUT);

11130250 T 0010

TALLY + TALLY+1;

11130260 T 0014

L2: F3 + TALLY;

11130270 T 0014

SI + LOC F3;

11130280 T 0015

DS + 1 WDS;

11130290 T 0015

DI + F4;

11130300 T 0015

TALLY + 0;

11130310 T 0016

3(GO TO L3) 3(TALLY+TALLY+1); L3: JUMP OUT; TALLY+TALLY+1);

11130320 T 0016

TALLY+TALLY+1;

11130340 T 0019

F4 + TALLY;

11130350 T 0019

SI+LOC F4;

11130360 T 0019

DS + 1 WDS;

11130370 T 0019

DI + F5;

11130380 T 0020

TALLY + 0;

11130390 T 0020

2(TALLY+TALLY+1; 3(TALLY+TALLY+1; 4 (TALLY +

11130400 T 0020

TALLY+1; JUMP OUT); TALLY+TALLY+1; JUMP OUT); JUMP OUT;

11130410 T 0021

TALLY + TALLY+1) ;

11130420 T 0024

F5 + TALLY;

11130430 T 0025

SI + LOC F5;

11130440 T 0025

DS + 1 WDS;

11130450 T 0025

END;

11130460 T 0025

STPRJ (A,B,C,D,E);

11130470 T 0026

TEMP[1] + A;

11130480 T 0027

TEMP[2] + B;

11130490 T 0029

TEMP[3] + C;

11130500 T 0031

TEMP[4] + D;

11130510 T 0033

TEMP[5] + E;

11130520 T 0034

FILL ANS[*] WITH OCT1, OCT3, OCT2, OCT1, OCT4;

11130530 T 0036

START OF SEGMENT ***** 254

254 IS 5 LONG, NEXT SEG 253

CVN + 5;

11130540 T 0038

PNO ← 113;

11130550 T 0039

VERIFY

11130560 T 0039

END;

11130570 T 0039

253 TS 44 LONG, NEXT SEG 10

PROCEDURE P115; COMMENT 5.12.12 COMPOUND STREAM STATEMENT 8/5/63 LG;

11150010 T 0174

BEGIN

11150020 T 0174

INTEGER ARRAY STRM [0:20];

11150030 T 0174

START OF SEGMENT ***** 255

INTEGER I, A, B, C, D;

11150040 T 0001

STREAM PROCEDURE CSS (DEST, SRCE, A, B, C, D);

11150050 T 0001

VALUE A, B, C, D;

11150060 T 0001

BEGIN

11150070 T 0001

LOCAL T14, T15, T16, T17, T1;

11150080 T 0003

LABEL L1, L2, L3, L4, L5, L6, L7, LA, LB;

11150090 T 0003

SI ← SRCE ; DI ← DEST ;

11150100 T 0003

BEGIN COMMENT DUMMY STATEMENT DS ← 1 WDS END; END;

11150110 T 0003

BEGIN END;

11150120 T 0003

BEGIN

11150130 T 0003

BEGIN

11150140 T 0003

BEGIN SI ← SI+8; DS ← 1 WDS END

11150150 T 0003

END

11150160 T 0004

END;

11150170 T 0004

DS ← 1 WDS;

11150180 T 0004

BEGIN DS ← 1 WDS END;

11150190 T 0004

BEGIN DS ← 1 WDS END;

11150200 T 0004

GO TO L1;

11150210 T 0004

BEGIN DS ← 1 WDS; L1: DS ← 1 WDS; DS ← 1 WDS END;

11150220 T 0005

BEGIN DS ← 1 WDS; GO TO L2; DS ← 1 WDS END;

11150230 T 0006

L2: DS ← 1 WDS;

11150240 T 0007

BEGIN

11150250 T 0008

	GO TO LA;	11150270 T 0008
1	DS + 1 WDS ;	11150280 T 0008
2		
3	LA: DS + 1 WDS ;	11150290 T 0008
4		
5	GO TO LB;	11150300 T 0009
6		
7	DS + 1 WDS;	11150310 T 0009
8		
9	LB: DS + 1 WDS;	11150320 T 0009
10		
11	GO TO L3 ; DS + 1 WDS	11150330 T 0010
12		
13	END;	11150340 T 0010
14		
15	DS + 1 WDS; DS + 1 WDS;	11150350 T 0010
16		
17	L4: BEGIN DS + 1 WDS;	11150360 T 0011
18		
19	DS + 1 WDS; GO TO L5;	11150370 T 0012
20		
21	DS + 1 WDS	11150380 T 0012
22		
23	END; BEGIN DS + 1 WDS;	11150390 T 0013
24		
25	L3: DS + 1 WDS;	11150400 T 0013
26		
27	GO TO L4; DS + 1 WDS	11150410 T 0014
28		
29	END;	11150420 T 0014
30		
31	L5: T14 + DI; DI + DI + 8;	11150430 T 0014
32		
33	T15 + DI; DI + DI + 8;	11150440 T 0015
34		
35	T16 + DI; DI + DI + 8;	11150450 T 0016
36		
37	T17 + DI;	11150460 T 0016
38		
39	TALLY + A ; T1 + TALLY; SI + LOC T1; DI + LOC A;	11150470 T 0016
40		
41	L6: IF B SC= DC THEN	11150480 T 0018
42		
43	BEGIN SI + LOC A;	11150490 T 0019
44		
45	DI + T14 ;	11150500 T 0020
46		
47	DS + 1 WDS	11150510 T 0020
48		
49	END	11150520 T 0020
50		
51	ELSE	11150530 T 0020
52		
53	BEGIN SI + LOC B;	11150540 T 0021
54		
55	DI + T15 ;	11150550 T 0021
56		
57	DS + 1 WDS	11150560 T 0021
	END ;	11150570 T 0021

Data Documents/Inc.

IF TOGGLE THEN

11150580 T 0021

BEGIN SI ← LOC C;

11150590 T 0022

DI ← T16 ;

11150600 T 0022

DS ← 1 WDS;

11150610 T 0023

SI ← LOC A;

11150620 T 0023

DI ← LOC B;

11150630 T 0023

GO TO L6

11150640 T 0023

END

11150650 T 0024

ELSE

11150670 T 0024

BEGIN SI ← LOC D ;

11150680 T 0024

DI ← T17;

11150690 T 0024

DS ← 1 WDS

11150700 T 0024

END ;

11150710 T 0025

END STREAMPROCEDURE CSS ;

11150720 T 0025

COMMENT START OF EXECUTE OF P115;

11151010 T 0025

A ← 14; B ← 15; C ← 16; D ← 17;

11151020 T 0025

FOR I ← 0 STEP 1 UNTIL 20 DO STRM [I] ← I ;

11151030 T 0029

CSS (TEMP, STRM, A, B, C, D);

11151040 T 0033

FOR I ← 1 STEP 1 UNTIL 19 DO ANS[I] ← STRM[I];

11151050 T 0037

CVN ← 17;

11151060 T 0042

PND ← 115;

11151070 T 0043

VERIFY ;

11151080 T 0043

END P115 ;

11151090 T 0044

255 YS 49 LONG, NEXT SEG 10

PROCEDURE P116; COMMENT 5.12.13.4 SOURCE COMPARE WITH LITERAL;

11160010 T 0174

BEGIN

11160020 T 0174

STREAM PROCEDURE CHECKSORCELIT(INARAY);

11160030 T 0174

START OF SEGMENT ***** 256

BEGIN

11160040 T 0000

LOCAL P, Q;

11160050 T 0000

Data Documents/Inc.

	LABEL A, B, C, D, E, F, G, H, NED;	11160550	T	0000
1	DI← LOC P; DS← 8 LIT "19AZ* ≥";	11160060	T	0000
2				
3	DI← LOC Q; DS← 7 LIT "0. (/+"; DS+1 LIT "";	11160070	T	0001
4				
5	DI← INARRAY; DI←DI+7;	11160080	T	0003
6				
7	SI← LOC P;	11160090	T	0004
8				
9	IF SC = "1" THEN BEGIN DS+1 LIT "1"; DI←DI+7;	11160100	T	0004
10				
11	SI←SI+2 END; IF TOGGLE THEN GO TO A; GO TO NED;	11160110	T	0006
12				
13	A: IF SC > "+" THEN BEGIN DS+ 1 LIT "2"; DI←DI+7;	11160120	T	0007
14				
15	SI←SI+2 END; IF TOGGLE THEN GO TO B; GO TO NED;	11160130	T	0008
16				
17	B: IF SC ≤ "+" THEN BEGIN DS+ 1 LIT "3"; DI←DI+7;	11160140	T	0009
18				
19	SI←SI+1 END; IF TOGGLE THEN GO TO C; GO TO NED;	11160150	T	0011
20				
21	C: IF SC ≤ " " THEN BEGIN DS+ 1 LIT "4"; DI←DI+7;	11160160	T	0012
22				
23	SI←SI+1 END; IF TOGGLE THEN GO TO D; GO TO NED;	11160170	T	0014
24				
25	D: IF SC= " " THEN BEGIN DS+ 1 LIT "5"; DI←DI+7;END;	11160180	T	0015
26				
27	SI←LOC Q; IF TOGGLE THEN GO TO E; GO TO NED;	11160190	T	0017
28				
29	E: IF SC≠ "+" THEN BEGIN DS+ 1 LIT "6"; DI←DI+7;	11160200	T	0018
30				
31	SI←SI+1 END; IF TOGGLE THEN GO TO F; GO TO NED;	11160210	T	0020
32				
33	F: IF SC="." THEN BEGIN DS+1 LIT "7"; DI←DI+7;	11160220	T	0021
34				
35	SI←SI+6 END; IF TOGGLE THEN GO TO G; GO TO NED;	11160230	T	0023
36				
37	G: IF SC = "" THEN BEGIN DS+1 LIT "7";DI←DI+7 END;	11160240	T	0024
38				
39	IF TOGGLE THEN GO TO H; GO TO NED;	11160250	T	0026
40				
41	H: IF SC= "" THEN 2(IF SC= "" THEN 2(IF SC>"0" THEN	11160260	T	0027
42				
43	JUMP OUT 2 TO NED); IF TOGGLE THEN	11160270	T	0031
44				
45	JUMP OUT TO NED; DS+1 LIT "1";	11160280	T	0032
46				
47	DI←DI+7);	11160290	T	0033
48				
49	NED: END;	11160300	T	0033
50				
51	CHECKSORCELIT(TEMP[1]);	11160310	T	0034
52				
53	FILL ANS[*] WITH 1, 2, 3, 4, 5, 6, 7, 7, 1;	11160320	T	0037
54				
55		START OF SEGMENT *****	257	
56		257 ,S	9 LONG,	NEXT SEG 256
57				

START OF SEGMENT ***** 257

257 ,S 9 LONG, NEXT SEG 256

PNO+116;

11160340 T 0040

VERIFY

11160350 T 0040

END;

11160360 T 0040

256 JS 42 LONG, NEXT SEG 10

PROCEDURE P117; COMMENT STREAM SOURCE AND DESTINATION COMPARE.

11170010 T 0174

5.12.13.5 JUNE 24 1963;

11170020 T 0174

BEGIN

11170030 T 0174

LABEL DAB;

11170035 T 0174

START OF SEGMENT ***** 258

INTEGER I;

11170040 T 0000

STREAM PROCEDURE SOURCEDESTINCOMPARE(ARAYIN1, ARAYIN25, SIXTY4,

11170050 T 0000

ARAYIN15, ARAYINEND);

11170060 T 0000

VALUE SIXTY4;

11170070 T 0000

BEGIN

11170080 T 0000

LOCAL Q, R;

11170090 T 0000

LABEL A, B, C, D, E, BAD;

11170100 T 0000

DI+ARAYIN1 ; DS+20 LIT "ABCD4444IJKLMNOPQRST";

11170110 T 0000

DS+20 LIT "*9/+0.,2S ";

11170120 T 0003

DS+20 LIT "1234567891 ";

11170130 T 0005

DS+20 LIT " ";

11170140 T 0008

DS+20 LIT " ";

11170150 T 0011

DS+20 LIT "*****";

11170160 T 0014

DS+20 LIT "ABCDEFGHJKLMNOPQRST";

11170170 T 0016

DI+LOC R; SI+LOC ARAYINEND; DS+1 WDS; SI+ARAYIN1;

11170180 T 0019

DI+LOC Q; DS+8 LIT "ABCD4444"; DI+LOC Q;

11170190 T 0020

IF 8 SC=DC THEN BEGIN DI+R; SI+SI-8; DS+8 CHR ;

11170200 T 0022

SI+SI-8; R+DI END; IF TOGGLE THEN GO TO A;

11170210 T 0024

GO TO BAD;

11170220 T 0025

A: DI+LOC Q; DS+8 LIT "AACD4444"; DI+LOC Q;

11170230 T 0025

IF 4 SC=DC THEN BEGIN TALLY+0; DI+R; DS+4 OCT;

11170240 T 0027

R+DI END; IF TOGGLE THEN GO TO B; GO TO BAD;

11170250 T 0029

Data Documents/Inc.

B: DI+LOC Q; DS+8 LIT "+9/:-0.."; DI+LUC Q; SI+SI+12; 11170260 T 0030

IF 4 SC > DC THEN BEGIN IF 4 SC ≥ DC THEN BEGIN 11170270 T 0033

DI+R; DS+8 CHR ; R+DI END END; IF TOGGLE 11170280 T 0034

THEN GO TO C; GO TO BAD; 11170285 T 0035

C: SI+SI+4; DI+LUC Q; DS+8 LIT "ABCD5678"; DI+LOC Q; 11170290 T 0036

IF 4 SC < DC THEN GO TO D; IF TOGGLE THEN GO TO 11170300 T 0039

BAD; 11170310 T 0040

D: IF 4 SC ≤ DC THEN BEGIN DI+R; DS+2 OCT; R+DI END; 11170320 T 0040

IF TOGGLE THEN GO TO E; GO TO BAD; 11170330 T 0042

E: DI+ARAYIN15; SI+SI+10; 11170340 T 0043

IF SIXTY4 SC > DC THEN GO TO BAD; IF TOGGLE THEN 11170350 T 0044

GO TO BAD; DI+R; DS+8 CHR ; R+DI; 11170360 T 0045

DI+LOC Q; DS+8 LIT "Q"; DI+LOC Q; 11170370 T 0046

IF SC = DC THEN GO TO BAD; IF TOGGLE THEN GO TO BAD; 11170380 T 0048

DI+R; DI+DI+4; DS+4 CHR ; R+DI; 11170390 T 0049

DI+LOC Q; 11170400 T 0050

IF 0 SC = DC THEN BEGIN DI+R; DI+DI+1; DS+3 CHR; 11170410 T 0051

END; IF TOGGLE THEN GO TO BAD; DI+R; 11170420 T 0052

DI+DI-8; DS+3 LIT "A"; 11170425 T 0053

BAD: END; 11170430 T 0054

SORCEDESTINCOMPARE(TEMP[1], TEMP[25],63,TEMP[15], TEMP[44]); 11170440 T 0055

DAB: FOR I+44 STEP 1 UNTIL 50 DO TEMP[I-43]+TEMP[I]; 11170450 T 0062

FILL ANS [*]WITH OCT2122232404040404, OCT10534, 11170460 T 0068

START OF SEGMENT ***** 259

OCT1757606060606060, OCT133, 11170470 T 0070

OCT2425262730314142, OCT44454647, 11170480 T 0070

OCT0050516200000000; 11170485 T 0070

259 T S 7 LONG, NEXT SEG 258

CVN+7; 11170490 T 0070

PNO+117; 11170500 T 0070

VERIFY 11170510 T 0071

Data Documents/Inc.

END;

11170520 T 0071

258 T S 75 LONG, NEXT SEG 10

PROCEDURE P118; COMMENT STREAM PROCEDURE SOURCE BIT 5,12,13,6 KM;

11180010 T 0174

BEGIN

11180020 T 0174

STREAM PROCEDURE SBCHECK(UJK);

11180030 T 0174

START OF SEGMENT ***** 260

BEGIN

11180040 T 0000

LOCAL Q, R, F, E, D, C, B, A;

11180045 T 0000

LABEL L1, L2, L3;

11180046 T 0000

DI ← LOC R; DS ← 8 LIT "AABBCCDH"; TALLY ← 0;

11180060 T 0000

DI ← LOC Q; DS ← 8 LIT "ABCDEFGH";

11180070 T 0001

SI ← LOC Q;

11180080 T 0003

COMMENT SB IS 0;

11180090 T 0003

IF SB THEN BEGIN A←TALLY; GO TO L1 END;

11180100 T 0003

TALLY←2; A←TALLY;

11180110 T 0005

L1: SKIP 5 SB; DI←LOC R; TALLY←0;

11180120 T 0005

COMMENT SB IS 1;

11180130 T 0006

IF SB THEN BEGIN TALLY←TALLY+3; B←TALLY; GO TO L2

11180140 T 0006

END; IF TOGGLE THEN BEGIN DS←3 CHR; TALLY←TALLY+2 END;

11180150 T 0008

L2: SKIP 2 SB; TALLY ← 0;

11180160 T 0009

COMMENT SB IS 1;

11180170 T 0010

IF SB THEN BEGIN IF 3 SC=DC THEN BEGIN C←TALLY

11180180 T 0010

END; IF SC= "F" THEN TALLY←TALLY+4 END; TALLY←TALLY

11180190 T 0012

+1; C←TALLY;

11180200 T 0013

TALLY ← 0;

11180210 T 0014

SKIP 6 SB;

11180215 T 0014

COMMENT SB IS 0;

11180220 T 0014

IF SB THEN BEGIN D←TALLY; GO TO L3 END;

11180230 T 0014

BEGIN SKIP 2 SB; TALLY←TALLY+6; D←TALLY END;

11180240 T 0016

L3: SKIP 1 SB; TALLY←0;

11180260 T 0016

COMMENT SB IS 1;

11180270 T 0017

	IF SB THEN BEGIN 8(TALLY + TALLY+7; IF SB THEN	11180280 T 0017
1	JUMP OUT) END; E←TALLY;	11180290 T 0019
2	TALLY← 0;	11180300 T 0021
3	COMMENT SB IS 1;	11180310 T 0021
4	IF SB THEN BEGIN IF SC ="H" THEN BEGIN SI←LOC Q	11180320 T 0021
5	; DI←LOC R; IF 1 SC = DC THEN TALLY←TALLY+8 END	11180330 T 0023
6	END; TALLY←TALLY+1; F ← TALLY;	11180340 T 0024
7	SI←LOC A; DI←UJK; DS← 6 WDS;	11180345 T 0025
8	END;	11180350 T 0026
9	SBCHECK(TEMP[1]);	11180360 T 0026
10	FILL ANS[*] WITH OCT2, OCT3, OCT5, OCT6, OCT7, OCT11;	11180370 T 0030
11		START OF SEGMENT ***** 261
12		261 T S 6 LONG, NEXT SEG 260
13	CVN←6;	11180380 T 0032
14	PNO ← 118;	11180390 T 0033
15	VERIFY	11180400 T 0034
16	END;	11180410 T 0034
17		260 T S 35 LONG, NEXT SEG 10
18	PROCEDURE P119; COMMENT STR PROC TOGGLE STATEMENT 5-12-13.7 KM.;	11190010 T 0174
19	BEGIN	11190020 T 0174
20	INTEGER ONE, TWO, ZERO, SIX;	11190030 T 0174
21		START OF SEGMENT ***** 262
22	STREAM PROCEDURE TESTTOGGLE(ARRAY, INARRAY, ONE, ZERO, TWO, SIX);	11190040 T 0000
23	VALUE ONE, ZERO, TWO, SIX;	11190050 T 0000
24	BEGIN LABEL L1, EXITRIN, L2, L3;	11190060 T 0000
25	LOCAL A, B, C;	11190070 T 0000
26	TALLY←0;	11190080 T 0000
27	DI←LOC A; DS←8 LIT "A";	11190090 T 0000
28	SI ← LOC A;	11190100 T 0001
29	IF SC= "A" THEN GO TO L1; COMMENT SET TOGGLE TRUE;	11190110 T 0002

Data Documents/Inc.

1	GO TO EXITRIN; COMMENT TOGGLE WAS NOT SET TRUE;	11190120 T 0002	1
2	DI ← INARRAY;	11190130 T 0003	2
3	L1: IF TOGGLE THEN DI ← ARAYIN;	11190140 T 0003	3
4	IF TOGGLE THEN DI ← DI+7;	11190150 T 0004	4
5	IF TOGGLE THEN SI←LOC A;	11190160 T 0005	5
6	IF TOGGLE THEN B←DI;	11190170 T 0005	6
7	IF TOGGLE THEN DS+1 CHR; SI←SI-1;	11190180 T 0006	7
8	IF TOGGLE THEN DS← ONE WDS; SI←SI-3;	11190190 T 0006	8
9	IF TOGGLE THEN DS← ONE OCT;	11190200 T 0007	9
10	IF TOGGLE THEN DS+2 ADD; COMMENT TOGGLE IS FALSE;	11190210 T 0008	10
11	IF TOGGLE THEN GO TO EXITRIN; SI←SI-3;	11190220 T 0009	11
12	IF SC="A" THEN GO TO L2 ; GO TO EXITRIN;	11190230 T 0009	12
13	L2: COMMENT TOGGLE IS TRUE; DI ← DI+4;	11190240 T 0010	13
14	IF TOGGLE THEN DS ← TWO ZON;	11190250 T 0011	14
15	IF TOGGLE THEN DS← 8 LIT "B";	11190260 T 0012	15
16	IF TOGGLE THEN SKIP 42 DB;	11190270 T 0013	16
17	IF TOGGLE THEN DS ← SIX SET;	11190280 T 0014	17
18	IF TOGGLE THEN B(TALLY←TALLY+1);	11190290 T 0014	18
19	C←TALLY; SI←LOC C; DS←1 WDS; SI←LOC A;	11190300 T 0016	19
20	IF B SC = DC THEN TALLY←0;	11190310 T 0017	20
21	IF TOGGLE THEN GO TO EXITRIN;	11190320 T 0018	21
22	C←TALLY; SI←LOC C; DS ← 1 WDS; SI←LOC A;	11190330 T 0018	22
23	IF SB THEN GO TO EXITRIN;	11190340 T 0019	23
24	IF TOGGLE THEN GO TO EXITRIN; IF SC= "A" THEN GO TO	11190350 T 0020	24
25	L3;GO TO EXITRIN;	11190360 T 0021	25
26	L3: IF TOGGLE THEN BEGIN 3(IF SC="E" THEN BEGIN IF	11190370 T 0021	26
27	TOGGLE THEN JUMP OUT END; IF TOGGLE THEN TALLY ←7;	11190380 T 0024	27
28	JUMP OUT) END; C←TALLY; SI←LOC C; DS←1 WDS;	11190390 T 0025	28
29	EXITRIN: END;	11190400 T 0026	29
30	ONE ← 1; TWO ← 2; SIX ← 6; ZERO ← 0;	11190410 T 0027	30
31	TESTTOGGLE (TEMP[1],TEMP[22],ONE,ZERO,TWO,SIX);	11190420 T 0031	31

Data Documents/Inc.

Data Documents/Inc.

		11190430 T 0036
1	FILL ANS[*] WITH OCT21, OCT21212121212121, OCT1,	11190440 T 0036
2		
3		START OF SEGMENT ***** 263
4		
5	OCT0101000000002020, OCT2222222222222222,	11190450 T 0037
6		
7	OCT77, OCT10, OCT0, OCT10, OCT10;	11190460 T 0037
8		
9		263 rS 10 LONG, NEXT SEG 262
10		
11	CVN+10;	11190470 T 0037
12		
13	PNO+119;	11190480 T 0038
14		
15	VERIFY	11190490 T 0039
16		
17	END;	11190500 T 0039
18		
19		262 rS 42 LONG, NEXT SEG 10
20		
21	PROCEDURE P120; COMMENT STREAM PROCEDURE SOURCE FOR ALPHA TEST	11200010 T 0174
22		
23	5.12.13.8, FEB 6, 1963 KM.;	11200020 T 0174
24		
25	BEGIN	11200030 T 0174
26		
27	STREAM PROCEDURE TESTALPHA(ARAYIN);	11200040 T 0174
28		
29		START OF SEGMENT ***** 264
30		
31	BEGIN	11200050 T 0000
32		
33	LOCAL A;	11200060 T 0000
34		
35	LABEL L1, L2, L3, L4;	11200070 T 0000
36		
37	DI+LOC A; DS+8 LIT "ABC*109*"; TALLY+0;	11200080 T 0000
38		
39	SI+LOC A; DI + ARAYIN;	11200090 T 0001
40		
41	IF SC= ALPHA THEN BEGIN IF TOGGLE THEN DS+8 LIT	11200100 T 0002
42		
43	"A"; DS+8 LIT "B"; GO TO L1 END; IF TOGGLE THEN	11200110 T 0003
44		
45	DS + 8 LIT "C" ; DS + 8 LIT "D";	11200120 T 0006
46		
47	L1: SI+SI+3;	11200130 T 0009
48		
49	IF SC= ALPHA THEN BEGIN IF TOGGLE THEN DS+8 LIT	11200140 T 0009
50		
51	"A"; DS+8 LIT "B"; GO TO L2 END; IF TOGGLE THEN	11200150 T 0010
52		
53	DS + 8 LIT "C"; DS+8 LIT "D";	11200160 T 0013
54		
55	L2: SI+ SI+3;	11200170 T 0016
56		
57	IF SC=ALPHA THEN BEGIN IF TOGGLE THEN DS+8 LIT	11200180 T 0016
	"A"; DS+8 LIT "B"; GO TO L3 END; IF TOGGLE THEN	11200190 T 0017

DS+8 LIT "C"; DS+8 LIT "D";

11200200 T 0020

L3: SI+SI+1;

11200210 T 0023

IF SC=ALPHA THEN BEGIN IF TOGGLE THEN DS+8

11200220 T 0023

LIT"A"; DS+8 LIT"B"; GO TO L4 END; IF TOGGLE

11200230 T 0024

THEN DS+8 LIT "C";DS+8 LIT "D";

11200240 T 0027

L4: END;

11200250 T 0030

TESTALPHA(TEMP[1]);

11200260 T 0030

FILL ANS[*] WITH OCT21212121212121, OCT2222222222222222,

11200270 T 0033

START OF SEGMENT ***** 265

OCT2424242424242424, OCT21212121212121,

11200280 T 0034

OCT2222222222222222, OCT24242424242424;

11200285 T 0034

265 IS 6 LONG, NEXT SEG 264

CVN+6;

11200290 T 0034

PND + 120;

11200300 T 0035

VERIFY

11200310 T 0036

END;

11200310 T 0036

264 IS 37 LONG, NEXT SEG 10

PROCEDURE P121;COMMENT FOR STATEMENT MULTIPLE LIST ELEMENTS;

11210010 T 0174

BEGIN

11210020 T 0174

REAL E,F,C;

11210030 T 0174

START OF SEGMENT ***** 266

INTEGER D,G,H;

11210035 T 0000

BOOLEAN A,B;

11210040 T 0000

INTEGER PROCEDURE SEVEN (FML);

11210050 T 0000

INTEGER FML;

11210060 T 0000

BEGIN SEVEN+ FML MOD (FML+5) END;

11210070 T 0000

E+ 15.5; F+ 7.5; C+ 2.0; A+ TRUE; B+ FALSE ; D+ 2732 ;

11210080 T 0004

G+ 2; H+ 4;

11210090 T 0009

TEMP[1]+ 15; TEMP[2]+ 3;

11210100 T 0011

FOR C+ TEMP[1]+ TEMP[2], SEVEN(10),"AB"+ "A", 5 DO BEGIN

11210110 T 0014

G+ G+1; TEMP[G]+ C+5 END;

11210120 T 0026

Data Documents/Inc.

FOR C← F-E + 16 STEP 1 UNTIL SEVEN (9),

11210130 T 0036

D.[44:2] + D.[40:3] STEP D.[45:1]

11210140 T 0041

UNTIL TEMP[1]←6, SEVEN(6)+2 STEP "AB" MOD "A" UNTIL "A" = 8 ,

11210150 T 0045

15 STEP 3 UNTIL

11210160 T 0059

20 DO BEGIN G← G+1; TEMP [G]← C END;

11210170 T 0061

FOR C← F-E STEP (-F) WHILE G< 16, SEVEN(2) × (-4)

11210180 T 0068

WHILE A OR B, 8

11210190 T 0075

STEP(-F) UNTIL = (SEVEN(0)) DO BEGIN G← G+1; H← H+1;

11210200 T 0078

A← BOOLEAN(H.[45:1]);

11210210 T 0087

TEMP[G]← SEVEN (C) END;

11210220 T 0089

FILL ANS [*] WITH OCT17, OCT3, OCT27, OCT17, OCT2150,

11210230 T 0092

START OF SEGMENT ***** 267

OCT12, OCT10, OCT11, OCT10, OCT11,

11210240 T 0093

OCT10, OCT11, OCT17, OCT22, OCT20000000000000002,

11210250 T 0093

OCT200000000000000005, OCT20000000000000002,

11210260 T 0093

OCT20000000000000002, OCT10,

11210270 T 0093

OCT1;

11210280 T 0093

267 IS 20 LONG, NEXT SEG 266

CVN← 20 ;

11210290 T 0093

PNO← 121 ;

11210300 T 0094

VERIFY

11210310 T 0095

END;

11210320 T 0095

266 IS 100 LONG, NEXT SEG 10

PROCEDURE P122; COMMENT PRECEDENCE OF LOGICAL OPERATORS EK

11220010 T 0174

29 NOV 62;

11220020 T 0174

BEGIN

11220030 T 0174

INTEGER X1, X2, X3, X4;

11220040 T 0174

START OF SEGMENT ***** 268

BOOLEAN A1, A2, A3, A4, A5, A6, A7;

11220050 T 0000

X1 ← X2 ← 1;

11220060 T 0000

	X4 ← 4;	11220080 T 0002
1	A1 ← A2 ← A3 ← A4 ← TRUE;	11220090 T 0002
2		
3	A5 ← A6 ← A7 ← FALSE;	11220100 T 0005
4		
5	IF NOT X1≠X2 THEN TEMP[1]←7 ELSE TEMP[1]←5;	11220110 T 0006
6		
7	IF X4>X1+X2+X3 THEN TEMP[2]← 5 ELSE TEMP[2] ← 7;	11220120 T 0012
8		
9	IF A1 OR A5 AND A6 THEN TEMP[3] ← 7 ELSE TEMP[3] ← 5;	11220130 T 0018
10		
11	IF A1 EQV A5 IMP A2 OR A6 AND A5 THEN TEMP[4]←7 ELSE TEMP[4]←5;	11220140 T 0024
12		
13	IF A6 EQV A5 AND A2 THEN TEMP[5]← 7 ELSE TEMP[5] ← 5;	11220150 T 0030
14		
15	IF X4 < X3 EQV X1=X2 IMP A1 THEN TEMP[6]← 5 ELSE TEMP[6]← 7;	11220160 T 0037
16		
17		
18	IF A1 IMP A5 IMP A6 THEN TEMP[7] ← 7 ELSE TEMP [7] ← 5;	11220170 T 0044
19		
20	IF X1=X2 OR NOT X1≠X3 AND A5 IMP A6 EQV A5 OR X4>X1+X2+X3 AND	11220180 T 0051
21		
22	NOT A5 IMP A4 AND X1=X2 THEN TEMP[8] ← 5 ELSE TEMP[8] ← 7;	11220190 T 0056
23		
24	IF X4<X3 EQV NOT A1 IMP X1=X2 OR NOT X3>X4 THEN TEMP [9] ← 5	11220200 T 0064
25		
26	ELSE TEMP[9] ← 7;	11220210 T 0069
27		
28	IF NOT A5 OR X4<X1+X2 IMP A5 EQV X1=X2 IMP NOT X4<X1 AND A2	11220220 T 0072
29		
30	THEN TEMP[10] ← 5 ELSE TEMP[10] ← 7;	11220230 T 0077
31		
32	IF NOT X4>X1 EQV X4>X1 AND A5 IMP NOT(A1 OR A5) THEN TEMP[11]	11220240 T 0083
33		
34	←5 ELSE TEMP[11] ← 7;	11220250 T 0087
35		
36	IF A5 EQV X4>X1+X2 OR A1 IMP FALSE THEN TEMPL12] ← 7 ELSE	11220260 T 0091
37		
38	TEMP[12]← 5;	11220270 T 0096
39		
40	IF A4 OR A1 AND A6 AND NOT (A1 OR A5 AND A6 IMP X4<X1) THEN	11220280 T 0098
41		
42	TEMP[13] ← 7 ELSE TEMP[13] ← 5;	11220290 T 0102
43		
44	IF NOT A1 EQV X4=X1 OR (A1 AND TRUE) AND A6 OR FALSE THEN	11220300 T 0107
45		
46	TEMP[14] ← 7 ELSE TEMP[14]← 5;	11220310 T 0110
47		
48	FILL ANS[*] WITH OCT7, OCT7, OCT7, OCT7, OCT7, OCT7, OCT7,	11220320 T 0115
49		
50		START OF SEGMENT ***** 269
51		
52	OCT7,OCT7, OCT7, OCT7, OCT7, OCT7, OCT7;	11220330 T 0116
53		
54		269 ,S 14 LONG, NEXT SEG 268
55		
56	CVN ← 14;	11220340 T 0116
57	PND ← 12;	11220350 T 0117

VERIFY

11220360 T 0118

END;

11220370 T 0118

268 S 123 LONG, NEXT SEG 10

PROCEDURE P123; COMMENT GO TO STATEMENT (PROCEDURE) EK 20 DEC 62;

11230010 T 0174

BEGIN

11230020 T 0174

LABEL L12, LLP, LL, L, L03, L02;

11230030 T 0174

START OF SEGMENT ***** 270

INTEGER I, J, K, SUM, B, C, A;

11230040 T 0000

BOOLEAN T, T2, T3, T4, T5, T6, T7, T8, TEST;

11230050 T 0000

PROCEDURE PR1(I, J, K, SUM, B, C, A, T, T2, T3, T4, T5, T7, TEST,

11230060 T 0000

L02, L03, LLP, L);

11230061 T 0000

INTEGER I, J, K, SUM, B, C, A;

11230063 T 0000

BOOLEAN T, T2, T3, T4, T5, T7, TEST;

11230065 T 0000

LABEL L02, L03, LLP, L;

11230067 T 0000

BEGIN LABEL L1;

11230068 T 0000

START OF SEGMENT ***** 271

L1: BEGIN

11230070 T 0000

LABEL LL1, LL2, LL3, LL4, L2, LL5, LLN, L1, L3, LMS, LL6;

11230080 T 0000

START OF SEGMENT ***** 272

IF TEST THEN GO TO LL1;

11230090 T 0000

LL2: IF T THEN GO TO L2;

11230100 T 0001

LL3: I + 1 + 1; TEMP[I] + I;

11230110 T 0002

GO TO IF I < 2 THEN LL2 ELSE LL4;

11230120 T 0005

LL4: GO TO IF I < 3 THEN LL2 ELSE LL5;

11230130 T 0011

LL5: IF I < 4 THEN GO TO LL3;

11230140 T 0018

GO TO L2;

11230150 T 0019

L2: IF J < 10 THEN GO TO IF SUM >= K THEN LMS

11230160 T 0019

ELSE L03 ELSE GO TO LL6;

11230170 T 0022

LMS: J + J + 1;

11230180 T 0026

IF T2 THEN GO TO LLP;

11230190 T 0027

FOR C + 1 STEP 1 UNTIL 10 DO SUM + SUM + 1;

11230200 T 0029

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GO TO L2;

11230210 T 0035

LL6: BEGIN

11230220 T 0035

LABEL LNN,LTN,LT;

11230230 T 0036

START OF SEGMENT ***** 273

REAL DBSUM;

11230235 T 0000

IF T3 THEN GO LNN;

11230240 T 0000

DBSUM + SUM + SUM ;

11230250 T 0001

TEMP[B] + DBSUM; GO TO LTT;

11230260 T 0002

LNN: TEMP[B] + "BYPASS";

11230270 T 0004

IF T4 THEN GO TO LTN ;

11230280 T 0006

LTT: GO TO L3;

11230290 T 0007

LTN:

11230300 T 0010

END;

11230310 T 0011

273 T S 13 LONG, NEXT SEG 272

L3: BEGIN

11230320 T 0037

INTEGER X1;

11230330 T 0037

START OF SEGMENT ***** 274

IF T7 THEN GO TO L;

11230340 T 0000

X1 + A;

11230350 T 0002

IF T5 THEN GO TO LLN;

11230360 T 0002

TEMP[X1] + A;

11230370 T 0006

GO TO LLN;

11230380 T 0008

END;

11230390 T 0010

274 T S 12 LONG, NEXT SEG 272

LL1: TEMP[6] + "TST";

11230400 T 0038

GO TO L02;

11230410 T 0039

LLN:

11230420 T 0041

END; END;

11230430 T 0041

272 T S 46 LONG, NEXT SEG 271

271 T S 6 LONG, NEXT SEG 270

T3 ← T4 ← T5 ← TRUE; B ← 7; 11230440 T 0000

TEST ← T ← T2 ← T7 ← FALSE; 11230450 T 0002

I ← J ← K ← SUM ← 0; 11230460 T 0004

PR1(I, J, K, SUM, B, C, A, T, T2, T3, T4, T5, T7, TEST, L02, L03, LLP, L); 11230470 T 0007

TEMP[5] ← SUM; 11230480 T 0016

TEST ← TRUE; 11230490 T 0018

PR1 (I, J, K, SUM, B, C, A, T, T2, T3, T4, T5, T7, TEST, L02, L03, LLP, L); 11230500 T 0018

L02: TEST ← T3 ← T5 ← FALSE; 11230510 T 0028

T ← TRUE; 11230520 T 0029

B ← 8; 11230530 T 0030

A ← 9; 11230540 T 0031

PR1 (I, J, K, SUM, B, C, A, T, T2, T3, T4, T5, T7, TEST, L02, L03, LLP, L); 11230550 T 0032

TEMP[10] ← "TEN"; 11230560 T 0041

K ← 1022; 11230570 T 0043

J ← 0; 11230580 T 0043

PR1 (I, J, K, SUM, B, C, A, T, T2, T3, T4, T5, T7, TEST, L02, L03, LLP, L); 11230590 T 0044

L03: TEMP[11] ← "K300"; 11230600 T 0053

J ← K ← 0; 11230610 T 0055

T2 ← TRUE; 11230620 T 0057

PR1 (I, J, K, SUM, B, C, A, T, T2, T3, T4, T5, T7, TEST, L02, L03, LLP, L); 11230630 T 0057

LLP: TEMP[12] ← "12"; 11230640 T 0067

J ← 10; 11230650 T 0068

T3 ← T7 ← TRUE; 11230660 T 0069

PR1 (I, J, K, SUM, B, C, A, T, T2, T3, T4, T5, T7, TEST, L02, L03, LLP, L); 11230670 T 0070

L: TEMP[13] ← "LUCKY"; 11230680 T 0080

FILL ANS[*] WITH OCT1, OCT2, OCT3, OCT4, OCT144, OCT636263, 11230690 T 0081

START OF SEGMENT ***** 275

OCT227047216262, OCT227047216262, 11230700 T 0083

OCT11, OCT632545, OCT42030000, 11230710 T 0083

OCT6302, OCT4364234270; 11230715 T 0083

1 CVN ← 13; 11230720 T 0083

2 PNO ← 123; 11230730 T 0084

3 VERIFY 11230740 T 0085

4 END; 11230750 T 0085

5 PROCEDURE P124; COMMENT GO TO STATEMENT (SWITCHES) EK 17 DEC 62; 11240010 T 0174

6 BEGIN 11240020 T 0174

7 LABEL L1,L2,L3,L4,L5,L6,L7,L8,L9,L10,L11,L12,L14,L15,L16,L17; 11240030 T 0174

8 INTEGER X1,X2,Y1,Y2,I,K,L; 11240040 T 0000

9 SWITCH SW2 FORWARD ; 11240046 T 0000

10 SWITCH SW3 FORWARD ; 11240047 T 0000

11 SWITCH SW1 ← L1,L2,L3,SW2[Y1],SW2[Y2+7],L6,L7,L15; 11240050 T 0000

12 SWITCH SW2 ← L3,L4,L5,SW1[X1],SW1[X2],L8,L9,L16; 11240060 T 0025

13 SWITCH SW3 ← L10, IF I=K THEN L11 ELSE L12,SW3[4],SW1[X2+3]; 11240070 T 0052

14 Y1 ← 1; 11240080 T 0072

15 Y2 ← Y1; 11240090 T 0073

16 X1 ← 7; 11240100 T 0074

17 X2 ← 5; 11240110 T 0075

18 I ← K + 2; 11240120 T 0075

19 GO TO SW1[1]; 11240130 T 0077

20 L1: TEMP[1] ← 1; 11240140 T 0079

21 L2: GO TO IF Y1= 1 THEN SW1[3] ELSE L5; 11240150 T 0080

22 L3: TEMP[2] ← 2; 11240160 T 0086

23 Y1←Y1+1; 11240170 T 0087

24 GO TO L2; 11240180 T 0089

25 L5: BEGIN 11240190 T 0089

26 INTEGER X1,X2; 11240200 T 0090

x1 ← 4; 11240210 T 0000

x2 ← 6; 11240220 T 0000

GO TO SW2[X1]; 11240230 T 0001

END; 11240240 T 0003

277 T S 5 LONG, NEXT SEG 276

L7: TEMP[3] ← 3; 11240250 T 0091

GO TO SW2[X2+2]; 11240260 T 0092

L9: TEMP[4] ← 4; 11240270 T 0095

L ← 0; 11240280 T 0097

L14: L ← L+1; 11240290 T 0098

GO TO SW3[L]; 11240300 T 0100

L10: TEMP[5] ← 5; 11240310 T 0102

GO TO L14; 11240320 T 0104

L11: TEMP[6] ← 6; 11240330 T 0105

K ← K+1; 11240340 T 0107

GO TO SW3[L]; 11240350 T 0109

L12: TEMP[7] ← 7; 11240360 T 0111

GO TO L14; 11240370 T 0112

L15: TEMP[8] ← 8; 11240380 T 0113

GO TO SW1[(X1-1)]; 11240390 T 0115

L6: BEGIN 11240400 T 0118

INTEGER X2; 11240410 T 0119

START OF SEGMENT ***** 278

x2 ← 10; 11240420 T 0000

BEGIN 11240430 T 0000

INTEGER X1; 11240440 T 0000

START OF SEGMENT ***** 279

x2 ← 8; 11240450 T 0000

GO TO SW2[X2-3] 11240460 T 0000

END 11240470 T 0001

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END;

11240480 T 0003

279 TS 4 LONG, NEXT SEG 278

278 TS 3 LONG, NEXT SEG 276

LB: L4: L16: TEMP[9]+9;

11240490 T 0120

BEGIN

11240491 T 0121

LABEL LA, LB, LC;

11240491 T 0121

START OF SEGMENT ***** 280

SWITCH SW4 + LA, LB, LC, L17;

11240492 T 0000

Y1 + 2 ; GO TO SW4[Y1];

11240494 T 0015

LA: TEMP[10] + 0 ; GO TO LC;

11240495 T 0018

LB: TEMP[10] + 10;

11240496 T 0021

LC: GO TO SW4[4] END;

11240497 T 0023

280 TS 30 LONG, NEXT SEG 276

L17: TEMP[11] + 11;

11240498 T 0123

FILL ANS[*] WITH OCT1, OCT2, OCT3, OCT4, OCT5, OCT6, OCT7,

11240500 T 0124

START OF SEGMENT ***** 281

OCT10, OCT11, OCT12, OCT13;

11240510 T 0126

281 TS 11 LONG, NEXT SEG 276

CVN + 11;

11240520 T 0126

PNO + 124;

11240530 T 0127

VERIFY

11240540 T 0128

END;

11240550 T 0128

276 TS 135 LONG, NEXT SEG 10

PROCEDURE P125; COMMENT 5.11.3.2 PROCEDURE BODY VARIATIONS;

11250010 T 0174

BEGIN

11250020 T 0174

LABEL L1, L2;

11250030 T 0174

START OF SEGMENT ***** 282

INTEGER I, J; BOOLEAN B;

11250040 T 0000

I + 6; J + 12; B + TRUE;

11250050 T 0000

COMMENT ASSIGNMENT STATEMENT;

11250070 T 0002

TEMP[1] + 1; TEMP[2] + TEMP[2] + TEMP[2] + I.[45:1];

11250080 T 0002

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TEMP[3].[46:2]+7;

11250090 T 0009

BEGIN

11250100 T 0012

INTEGER PROCEDURE ARITH (I);

11250110 T 0012

START OF SEGMENT ***** 283

INTEGER I;

11250115 T 0000

BEGIN

11250117 T 0000

TEMP[4] ← (I+6)-(2/(I-5)); ARITH ← TEMP[4] END;

11250119 T 0000

PROCEDURE BOOL (B);

11250120 T 0007

BOOLEAN B;

11250125 T 0007

BEGIN

11250127 T 0007

TEMP[5] ← REAL(B) END;

11250129 T 0007

PROCEDURE GOTO;

11250130 T 0010

BEGIN LABEL L1; GO TO L1; L1: TEMP[7]+4 END;

11250140 T 0010

START OF SEGMENT ***** 284

284 IS 3 LONG, NEXT SEG 283

PROCEDURE DUMMY; BEGIN END;

11250150 T 0010

PROCEDURE CALL(I); INTEGER I; BEGIN TEMP[6] ← 1 + ARITH(I) END;

11250160 T 0010

CALL (I); BOOL(B); GOTO; DUMMY;

11250170 T 0014

END;

11250180 T 0018

283 IS 20 LONG, NEXT SEG 282

FILL ANS[*] WITH OCT1, UCT1, OCT3, OCT12, OCT1, OCT13, OCT4;

11250190 T 0013

START OF SEGMENT ***** 285

285 IS 7 LONG, NEXT SEG 282

CVN+7; PNO+125; VERIFY

11250200 T 0014

END;

11250210 T 0016

282 IS 19 LONG, NEXT SEG 10

PROCEDURE P126; COMMENT 5.11.3.2 RECURSIVE PROCEDURES. CCZ, 11/28/62;

11260010 T 0174

BEGIN INTEGER I;

11260020 T 0174

START OF SEGMENT ***** 286

REAL PROCEDURE FACTORIAL (N); VALUE N; INTEGER N;

11260030 T 0000

BEGIN FACTORIAL ← IF N = 0 THEN 1 ELSE N × FACTORIAL(N-1) END;

11260040 T 0000

Data Documents/Inc.

FOR I ← 1 STEP 1 UNTIL 10 DO TEMP[I] ← FACTORIAL(I);

11260050 T 0006

FILL ANS [*] WITH OCT1, OCT2, OCT6, OCT30, OCT170, OCT1320,

11260060 T 0012

START OF SEGMENT ***** 287

OCT11660, OCT116600, OCT1304600, OCT15657400;

11260070 T 0014

287 IS 10 LONG, NEXT SEG 286

CVN ← 10;

11260080 T 0014

PNO ← 126;

11260090 T 0015

VERIFY

11260100 T 0016

END;

11260110 T 0016

286 IS 19 LONG, NEXT SEG 10

PROCEDURE P127; COMMENT 5.11.4 TYPED PROCEDURES, C. ZETHRAEUS, 11/29;

11270010 T 0174

BEGIN

11270020 T 0174

REAL PROCEDURE RP(I); COMMENT RP = 4;

11270023 T 0174

START OF SEGMENT ***** 288

INTEGER I;

11270025 T 0000

BEGIN

11270030 T 0000

REAL X, Y, Z; BOOLEAN B;

11270035 T 0000

START OF SEGMENT ***** 289

I ← I + 1; B ← BOOLEAN(I.[44:1]); IF NOT B THEN Z ← RP(I) + 1;

11270045 T 0000

X ← RP + Y + Z + 1;

11270047 T 0006

END;

11270050 T 0008

289 IS 12 LONG, NEXT SEG 288

INTEGER PROCEDURE IP1; COMMENT IP1 = 6;

11270060 T 0000

BEGIN INTEGER I;

11270070 T 0000

START OF SEGMENT ***** 290

FOR I ← 1 STEP 1 UNTIL 6 DO IP1 + 1;

11270080 T 0000

END;

11270095 T 0004

290 IS 7 LONG, NEXT SEG 288

INTEGER PROCEDURE IP2; COMMENT IP2 = 3;

11270110 T 0000

BEGIN LABEL L1; INTEGER IPX;

11270120 T 0000

START OF SEGMENT ***** 291

FOR IPX+1 STEP 1 UNTIL 4 DO IF IPX = 3 THEN GO TO L1;

11270130 T 0000

L1: IP2+IPX END;

11270140 T 0004

291 7S 9 LONG, NEXT SEG 288

INTEGER I; I+0;

11270145 T 0000

TEMP[1]+RP(I); TEMP[2]+IP1; TEMP[3]+IP2;

11270150 T 0000

FILL ANS[*] WITH OCT17, OCT1, OCT3;

11270160 T 0007

START OF SEGMENT ***** 292

292 7S 3 LONG, NEXT SEG 288

CVN + 3;

11270170 T 0009

PNO + 127;

11270180 T 0010

VERIFY

11270190 T 0011

END;

11270200 T 0011

288 7S 14 LONG, NEXT SEG 10

PROCEDURE P128; COMMENT 5.11 PROCEDURE WEB, C.ZETHREALS, 11/29/62;

11280010 T 0174

BEGIN PROCEDURE W66; TEMP[1] + TEMP[1] + 1;

11280020 T 0174

START OF SEGMENT ***** 293

PROCEDURE W56; W66;

11280030 T 0003

PROCEDURE W46; W56;

11280040 T 0005

PROCEDURE W36; W46;

11280050 T 0006

PROCEDURE W26; W36;

11280060 T 0007

PROCEDURE W16; W26;

11280070 T 0008

PROCEDURE W65; BEGIN W66; W56 END;

11280080 T 0009

PROCEDURE W55; BEGIN W65; W56; W46 END;

11280090 T 0010

PROCEDURE W45; BEGIN W55; W46; W36 END;

11280100 T 0013

PROCEDURE W35; BEGIN W45; W36; W26 END;

11280110 T 0016

PROCEDURE W25; BEGIN W35; W26; W16 END;

11280120 T 0019

PROCEDURE W15; BEGIN W25; W16 END;

11280130 T 0022

PROCEDURE W64; BEGIN W65; W55 END;

11280140 T 0024

PROCEDURE W54; BEGIN W64; W55; W45 END;

11280150 T 0026

PROCEDURE W44; BEGIN W54; W45; W35 END;

11280160 T 0029

PROCEDURE W34; BEGIN W44; W35; W25 END;

11280170 T 0032

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	PROCEDURE W24; BEGIN W34; W25; W15 END;	11280180 T 0035
1	PROCEDURE W14; BEGIN W24; W15 END;	11280190 T 0038
2		
3	PROCEDURE W63; BEGIN W64; W54 END;	11280200 T 0040
4		
5	PROCEDURE W53; BEGIN W63; W54; W44 END;	11280210 T 0042
6		
7	PROCEDURE W43; BEGIN W53; W44; W34 END;	11280220 T 0045
8		
9	PROCEDURE W33; BEGIN W43; W34; W24 END;	11280230 T 0048
10		
11	PROCEDURE W23; BEGIN W33; W24; W14 END;	11280240 T 0051
12		
13	PROCEDURE W13; BEGIN W23; W14 END;	11280250 T 0054
14		
15	PROCEDURE W62; BEGIN W63; W53 END;	11280260 T 0056
16		
17	PROCEDURE W52; BEGIN W62; W53; W43 END;	11280270 T 0058
18		
19	PROCEDURE W42; BEGIN W52; W43; W33 END;	11280280 T 0061
20		
21	PROCEDURE W32; BEGIN W42; W33; W23 END;	11280290 T 0064
22		
23	PROCEDURE W22; BEGIN W32; W23; W13 END;	11280300 T 0067
24		
25	PROCEDURE W12; BEGIN W22; W13 END;	11280310 T 0070
26		
27	PROCEDURE W61; BEGIN W62; W52 END;	11280320 T 0072
28		
29	PROCEDURE W51; BEGIN W61; W52; W42 END;	11280330 T 0074
30		
31	PROCEDURE W41; BEGIN W51; W42; W32 END;	11280340 T 0077
32		
33	PROCEDURE W31; BEGIN W41; W32; W22 END;	11280350 T 0080
34		
35	PROCEDURE W21; BEGIN W31; W22; W12 END;	11280360 T 0083
36		
37	PROCEDURE W11; BEGIN W21; W12 END;	11280370 T 0086
38		
39	W11;	11280380 T 0088
40		
41	FILL ANS[*] WITH OCT35314;	11280390 T 0089
42		
43		START OF SEGMENT ***** 294
44		294 TS 1 LONG, NEXT SEG 293
45		
46	CVN+1; PNO+128; VERIFY	11280400 T 0091
47		
48	END;	11280410 T 0093
49		
50		293 TS 94 LONG, NEXT SEG 10
51		
52	PROCEDURE P131; COMMENT STREAM ELSE STATEMENT 5.12.13.1 9/4/63 ;	11310010 T 0174
53		
54	BEGIN	11310020 T 0174
55		
56	BOOLEAN TRU,FLS;	11310030 T 0174
57		

START OF SEGMENT ***** 295

	INTEGER TOGT;	11310040 T 0000
1	STREAM PROCEDURE THENELSE(TA,TB,TC,TD,TE,TF,TG,TH,TI,TJ,TK,	11310050 T 0000
2		
3	TOGT,TRU,FLS));	11310060 T 0000
4		
5	VALUE TOGT,TRU,FLS;	11310070 T 0000
6		
7	BEGIN	11310080 T 0000
8		
9	LOCAL T1;	11310090 T 0000
10		
11	LABEL L1,L2,L3,L4,L5,L6,L7,L8,L9,L10,L11,L12,L13;	11310100 T 0000
12		
13	COMMENT SET TOGGLE TRUE ;	11310110 T 0000
14		
15	SI + LOC TOGT; DI + LOC T1; DS + 1 WDS ; DI + DI-1;	11310120 T 0000
16		
17	SI + SI-1;	11310130 T 0001
18		
19	COMMENT TEST THEN STMT IS EXECUTED,ELSE STMT IS IGNORED;	11310140 T 0001
20		
21	IF 1 SC = DC THEN GO TO L1 ELSE GO TO L2;	11310150 T 0001
22		
23	SI + LOC TRU; DI + TB; DS + 1 WDS;	11310160 T 0002
24		
25	L1: SI + LOC TRU; DI + TA; DS + 1 WDS; GO TO L3;	11310170 T 0003
26		
27	L2: SI + LOC FLS; DI + TA; DS + 1 WDS;	11310180 T 0005
28		
29	L3: IF TOGGLE THEN BEGIN SI + LOC TRU; DI + TC; DS + 1 WDS	11310190 T 0005
30		
31	END	11310200 T 0007
32		
33	ELSE GO TO L4 ; GO TO L5;	11310210 T 0007
34		
35	L4: SI + LOC FLS; DI + TC; DS + 1 WDS;	11310220 T 0008
36		
37	L5: IF TOGGLE THEN TALLY + TOGT	11310230 T 0009
38		
39	ELSE TALLY + FLS;	11310240 T 0011
40		
41	T1 + TALLY; SI + LOC T1; DI + TD; DS + 1 WDS;	11310250 T 0012
42		
43	COMMENT TEST THEN STMT IS IGNORED, ELSE STMT IS EXECUTED;	11310260 T 0013
44		
45	SI + LOC TOGT; DI + LOC FLS; IF 8 SC = DC	11310270 T 0013
46		
47	THEN TALLY + FLS	11310280 T 0013
48		
49	ELSE TALLY + TRU;	11310290 T 0014
50		
51	T1 + TALLY;SI + LOC T1; DI + TE; DS + 1 WDS;	11310300 T 0015
52		
53	SI + LOC TRU; DI + TF; DS + 1 WDS;	11310310 T 0016
54		
55	IF TOGGLE THEN BEGIN SI + LOC FLS; DI + TG; DS + 1 WDS	11310320 T 0017
56		
57	END	11310330 T 0019
	ELSE GO TO L6;	11310340 T 0019

	SI ← LOC TRU; DI ← TH; DS ← 1 WDS; GO TO L7;	11310350 T 0019
1	L6: SI ← LOC TRU; DI ← TG; DS ← 1 WDS;	11310360 T 0020
2	L7: IF TOGGLE THEN GO TO L8	11310370 T 0021
3		
4	ELSE BEGIN SI ← LOC TRU; DI ← TI; DS ← 1 WDS	11310380 T 0022
5		
6	END; GO TO L8;	11310390 T 0023
7		
8	SI ← LOC TRU; DI ← TJ; DS ← 1 WDS;	11310400 T 0023
9		
10	L8: IF TOGGLE THEN GO TO L10	11310410 T 0024
11		
12	ELSE BEGIN	11310420 T 0025
13		
14	TALLY ← FLS;	11310440 T 0025
15		
16	B(IF TOGGLE THEN GO TO L12	11310450 T 0026
17		
18	ELSE BEGIN	11310460 T 0027
19		
20	IF TOGGLE THEN GO TO L13	11310470 T 0027
21		
22	ELSE	11310500 T 0028
23		
24	TALLY ← TRU;	11310510 T 0028
25		
26	JUMP OUT;	11310520 T 0029
27		
28	END;	11310530 T 0029
29		
30	L12: TALLY ← FLS; JUMP OUT;	11310540 T 0029
31		
32	L13: TALLY ← TOGT; JUMP OUT;)	11310550 T 0031
33		
34	END;	11310560 T 0033
35		
36	L9: T1 ← TALLY; SI ← LOC T1; DI ← TK; DS ← 1WDS ;	11310570 T 0034
37		
38	GO TO L11;	11310580 T 0035
39		
40	L10: TALLY ← FLS ; GO TO L9;	11310590 T 0035
41		
42	L11: END THENELSE;	11310600 T 0037
43		
44	TRU ← TRUE;	11311000 T 0037
45		
46	FLS ← FALSE;	11311010 T 0038
47		
48	TOGT ← 9;	11311020 T 0039
49		
50	THENELSE (TEMP[1],TEMP[2],TEMP[3],TEMP[4],TEMP[5],	11311030 T 0040
51		
52	TEMP[6],TEMP[7],TEMP[8],TEMP[9],TEMP[10],TEMP[11],	11311040 T 0045
53		
54	TOGT,TRU,FLS);	11311041 T 0051
55		
56	FILL ANS[*] WITH OCT1, OCT0, OCT1, OCT11, OCT1, OCT1,	11311050 T 0053
57		

OCT1, OCT0, OCT1, OCT0, OCT1;

11311060 T 0054

296 TS 11 LONG, NEXT SEG 295

CVN + 11 ;

11311070 T 0054

PNO + 131;

11311080 T 0055

VERIFY

11311090 T 0056

END P131 ;

11311100 T 0056

295 TS 59 LONG, NEXT SEG 10

P1 ;

19990010 T 0174

P2 ;

19990020 T 0174

P3 ;

19990030 T 0175

P4 ;

19990040 T 0175

P5 ;

19990050 T 0176

P6 ;

19990060 T 0176

P7 ;

19990070 T 0177

P9 ;

19990090 T 0177

P10 ;

19990100 T 0178

P11 ;

19990110 T 0178

P12 ;

19990120 T 0179

P13 ;

19990130 T 0179

P14 ;

19990140 T 0180

P15 ;

19990150 T 0180

P16 ;

19990160 T 0181

P17 ;

19990170 T 0181

P18 ;

19990180 T 0182

P19 ;

19990190 T 0182

P21 ;

19990210 T 0183

P22 ;

19990220 T 0183

P23 ;

19990230 T 0184

P24 ;

19990240 T 0184

P25 ;

19990250 T 0185

P26 ;

19990260 T 0185

	P27 ;	19990270 T 0186
1	P28 ;	19990280 T 0186
2		
3	P29 ;	19990290 T 0187
4		
5	P30 ;	19990300 T 0187
6		
7	P31 ;	19990310 T 0188
8		
9	P32 ;	19990320 T 0188
10		
11	P33 ;	19990330 T 0189
12		
13	P34 ;	19990340 T 0189
14		
15	P35 ;	19990350 T 0190
16		
17	P36 ;	19990360 T 0190
18		
19	P37 ;	19990370 T 0191
20		
21	P38 ;	19990380 T 0191
22		
23	P39 ;	19990390 T 0192
24		
25	P40 ;	19990400 T 0192
26		
27	P41 ;	19990410 T 0193
28		
29	P42 ;	19990420 T 0193
30		
31	P43 ;	19990430 T 0194
32		
33	P44 ;	19990440 T 0194
34		
35	P45 ;	19990450 T 0195
36		
37	P46 ;	19990460 T 0195
38		
39	P47 ;	19990470 T 0196
40		
41	P48 ;	19990480 T 0196
42		
43	P50 ;	19990500 T 0197
44		
45	P51 ;	19990510 T 0197
46		
47		19990520 T 0198
48		
49		19990530 T 0198
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51	P55 ;	19990550 T 0198
52		
53	P57 ;	19990570 T 0198
54		
55	P60 ;	19990600 T 0199
56		
57	P74 ;	19990740 T 0199
	P75 ;	19990750 T 0200

P76;

19990760 T 0200

P78 ;

19990780 T 0201

P79;

19990790 T 0201

P80 ;

19990800 T 0202

P81 ;

19990810 T 0202

P91 ;

19990910 T 0203

P94 ;

19990940 T 0203

P95 ;

19990950 T 0204

P96 ;

19990960 T 0204

P97 ;

19990970 T 0205

P98 ;

19990980 T 0205

P99 ;

19990990 T 0206

P100;

19991000 T 0206

P101;

19991010 T 0207

P102;

19991020 T 0207

P103;

19991030 T 0208

P104;

19991040 T 0208

P105;

19991050 T 0209

P106;

19991060 T 0209

P107;

19991070 T 0210

P108;

19991080 T 0210

P109;

19991090 T 0211

P110;

19991100 T 0211

P111;

19991110 T 0212

P112;

19991120 T 0212

P113;

19991130 T 0213

P115;

19991150 T 0213

P116;

19991160 T 0214

P117;

19991170 T 0214

P118;

19991180 T 0215

P119;

19991190 T 0216

P120;

19991200 T 0216

P121;

19991210 T 0217

P122;

19991220 T 0218

P123;

19991230 T 0219

P124;

19991240 T 0219

P125;

19991250 T 0220

P126;

19991260 T 0221

P127;

19991270 T 0222

P128;

19991280 T 0222

P131;

19991310 T 0223

END

19999998 T 0224

END.

19999999 T 0224

10 JS 229 LONG, NEXT SEG 2

2 JS 28 LONG, NEXT SEG 1

1 JS 2 LONG, NEXT SEG 0

308 JS 69 LONG, NEXT SEG 0

NUMBER OF ERRORS DETECTED = 0. COMPILATION TIME = 766 SECONDS.

PRT SIZE = 629; TOTAL SEGMENT SIZE = 11354 WORDS; DISK SIZE = 720 SEGS; NO. PGM. SEGS = 308

ESTIMATED CORE STORAGE REQUIRED = 12291 WORDS.

ESTIMATED AUXILIARY MEMORY REQUIRED = 0 WORDS.

NUMBER OF CARD-IMAGES PROCESSED = 4725.

Data Documents/Inc.

LABEL 00000000LINE 00175095?COMPILE X098ROUSH/CHECKAL ALGOL

ALGOL /X098ROU

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Data Documents/Inc.

LABEL 00000000FNØK 00175095?CUMPILE X098RDUSH/CHECKAL ALGOL

X098RDU/CHECKAL

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Data Documents/Inc.

TEST PROCEDURE NO. 000 1.0.0 ALGOL MASTER TEST PROCEDURES

IS OK

TEST PROCEDURE NO. 001 2.4.4 COMMENT

IS OK

TEST PROCEDURE NO. 002 2.5 IDENTIFIERS

IS OK

TEST PROCEDURE NO. 003 2.6 NUMBERS

IS OK

TEST PROCEDURE NO. 004 2.7 STRINGS

IS OK

TEST PROCEDURE NO. 005 3.1 VARIABLES

IS OK

TEST PROCEDURE NO. 006 3.2 PARTIAL WORD DESIGNATORS

IS OK

TEST PROCEDURE NO. 007 3.3 FUNCTION DESIGNATORS

IS OK

TEST PROCEDURE NO. 009 3.3.5 TRANSFER FUNCTIONS

IS OK

TEST PROCEDURE NO. 010 3.4.3.2 GENERAL ARITHMETIC EXPRESSIONS, IF CLAUSE

IS OK

TEST PROCEDURE NO. 011 3.4.4.1 ARITHMETIC OPERATOR, +

IS OK

TEST PROCEDURE NO. 012 3.4.4.1 ARITHMETIC OPERATOR, -

IS OK

TEST PROCEDURE NO. 013 3.4.4.1 ARITHMETIC OPERATOR, x

IS OK

TEST PROCEDURE NO. 014 3.4.4.1 ARITHMETIC OPERATOR, /

IS OK

TEST PROCEDURE NO. 015 3.4.4.1 ARITHMETIC OPERATOR, DIV

IS OK

CHECKAL
test run

TEST PROCEDURE NO. 016

3.4.4.1 ARITHMETIC OPERATOR, MOD

IS OK

TEST PROCEDURE NO. 017

3.4.4.1 ARITHMETIC OPERATOR, *

IS OK

TEST PROCEDURE NO. 018

3.4.4.2 ARITHMETIC EXPRESSION TYPES

IS OK

TEST PROCEDURE NO. 019

3.4.5 PRECEDENCE OF ARITHMETIC OPERATORS

IS OK

TEST PROCEDURE NO. 021

3.5.3.2 GENERAL BOOLEAN EXP, IF CLAUSE

IS OK

TEST PROCEDURE NO. 022

3.5.5.1 RELATIONAL OPERATOR, <

IS OK

TEST PROCEDURE NO. 023

3.5.5.1 RELATIONAL OPERATOR, ≤

IS OK

TEST PROCEDURE NO. 024

3.5.5.1 RELATIONAL OPERATOR, =

IS OK

TEST PROCEDURE NO. 025

3.5.5.1 RELATIONAL OPERATOR, ≥

IS OK

TEST PROCEDURE NO. 026

3.5.5.1 RELATIONAL OPERATOR, >

IS OK

TEST PROCEDURE NO. 027

3.5.5.1 RELATIONAL OPERATOR, ≠

IS OK

TEST PROCEDURE NO. 028

3.5.5.2 LOGICAL OPERATOR, NOT

IS OK

TEST PROCEDURE NO. 029

3.5.5.2 LOGICAL OPERATOR, AND

IS OK

TEST PROCEDURE NO. 030

3.5.5.2 LOGICAL OPERATOR, OR

IS OK

TEST PROCEDURE NO. 031

3.5.5.2 LOGICAL OPERATOR, IMP

IS OK

TEST PROCEDURE NO. 032

3.5.5.2 LOGICAL OPERATOR, EQV

IS OK

TEST PROCEDURE NO. 033 3.6.3.1SIMPLE DESIGNATIONAL EXPRESSION

IS OK

TEST PROCEDURE NO. 034 3.6.3.2GENERAL DESIGNATIONAL EXPRESSION

IS OK

TEST PROCEDURE NO. 035 3.6.4 SUBSCRIPT EXP OF SWITCH DESIGNATOR

IS OK

TEST PROCEDURE NO. 036 4.1 COMPOUND STATEMENT

IS OK

TEST PROCEDURE NO. 037 4.1 BLOCK & 5.0.2 DECLARATION

IS OK

TEST PROCEDURE NO. 038 4.2 ASSIGNMENT STATEMENT

IS OK

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39 TEST PROCEDURE NO. 040 4.4 DUMMY STATEMENT

40 IS OK

41 TEST PROCEDURE NO. 041 4.5.3.1IF STATEMENT

42 IS OK

43 TEST PROCEDURE NO. 042 4.5.3.2IF - ELSE STATEMENT

44 IS OK

45 TEST PROCEDURE NO. 043 4.5.3.3IF - FOR STATEMENT

46 IS OK

47 TEST PROCEDURE NO. 044 4.6.4.1FOR ARITH EXP ELEMENT

48 IS OK

49 TEST PROCEDURE NO. 045 4.6.4.2FOR STEP-UNTIL ELEMENT

IS OK

TEST PROCEDURE NO. 046 4.6.4.3FOR WHILE ELEMENT

IS OK

TEST PROCEDURE NO. 047 4.6.4.4FOR STEP-WHILE ELEMENT

IS OK

TEST PROCEDURE NO. 048 4.6.5 FOR CONTROLLED VARIABLE

IS OK

TEST PROCEDURE NO. 050 4.7.3.1CALL BY VALUE

IS OK

TEST PROCEDURE NO. 051 4.7.3.2CALL BY NAME

IS OK

TEST PROCEDURE NO. 055 4.9.3 FILL STATEMENT

IS OK

TEST PROCEDURE NO. 057 5.1 TYPE DECLARATION

IS OK

TEST PROCEDURE NO. 060 5.2.3.3TYPE ARRAY

IS OK

TEST PROCEDURE NO. 074 5.7.3.1FORMAT A PHRASE IN

IS OK

TEST PROCEDURE NO. 075 5.7.3.1FORMAT D PHRASE IN

IS OK

TEST PROCEDURE NO. 076 5.7.3.1FORMAT E PHRASE IN

IS OK

TEST PROCEDURE NO. 078 5.7.3.1FORMAT I PHRASE IN

IS OK

TEST PROCEDURE NO. 079 5.7.3.1FORMAT L PHRASE IN

IS OK

TEST PROCEDURE NO. 080 5.7.3.1FORMAT O PHRASE IN

IS OK

TEST PROCEDURE NO. 081 5.7.3.1FORMAT X PHRASE IN

IS OK

TEST PROCEDURE NO. 091 5.9.3 FORWARD REFERENCE DECLARATION

IS OK

TEST PROCEDURE NO. 094 5.11.3.1PROCEDURE DECLARATION (HEADING)

IS OK

TEST PROCEDURE NO. 095 5.12.3.1STREAM VALUE PART

IS OK

TEST PROCEDURE NO. 096 5.12.3.2STREAM DECLARATION

IS OK

TEST PROCEDURE NO. 097 5.12.5.3SET ADDRESS STATEMENT

IS OK

TEST PROCEDURE NO. 098 5.12.5.4STORE ADDRESS STATEMENT

IS OK

TEST PROCEDURE NO. 099 5.12.5.5RECALL ADDRESS STATEMENT

IS OK

TEST PROCEDURE NO. 100 5.12.5.6SKIP ADDRESS STATEMENT

IS OK

TEST PROCEDURE NO. 101 5.12.6.3TRANSFER WORDS

IS OK

TEST PROCEDURE NO. 102 5.12.6.4TRANSFER CHARACTERS

IS OK

TEST PROCEDURE NO. 103 5.12.6.5INPUT CONVERT

IS OK

TEST PROCEDURE NO. 104 5.12.6.6OUTPUT CONVERT

IS OK

TEST PROCEDURE NO. 105 5.12.6.7TRANSFER AND ADD

IS OK

TEST PROCEDURE NO. 106 5.12.6.8TRANSFER CHARACTER PORTIONS

IS OK

TEST PROCEDURE NO. 107 5.12.6.9LITERAL CHARACTERS

IS OK

TEST PROCEDURE NO. 108 5.12.6.10 LITERAL BITS

IS OK

TEST PROCEDURE NO. 109 5.12.7 STREAM GO TO STATEMENT

IS OK

TEST PROCEDURE NO. 110 5.12.8 SKIP BIT STATEMENT

IS OK

TEST PROCEDURE NO. 111 5.12.9 STREAM TALLY STATEMENT

IS OK

TEST PROCEDURE NO. 112 5.12.10 STREAM NEST STATEMENT

IS OK

TEST PROCEDURE NO. 113 5.12.10.3 JUMP OUT STATEMENT

IS OK

TEST PROCEDURE NO. 115 5.12.12 COMPOUND STREAM STATEMENT

IS OK

TEST PROCEDURE NO. 116 5.12.13.4 SOURCE WITH LITERAL

IS OK

TEST PROCEDURE NO. 117 5.12.13.5 SOURCE WITH DESTINATION

IS OK

TEST PROCEDURE NO. 118 5.12.13.6 SOURCE BIT

IS OK

TEST PROCEDURE NO. 119 5.12.13.7 TOGGLE

IS OK

TEST PROCEDURE NO. 120 5.12.13.8 SOURCE FOR ALPHA

IS OK

TEST PROCEDURE NO. 121 4.6.4 FOR LIST ELEMENTS

IS OK

TEST PROCEDURE NO. 122 3.5.6 PRECEDENCE OF LOGICAL OPERATORS

IS OK

TEST PROCEDURE NO. 123 4.3 GO TO STATEMENT (PROCEDURES)

IS OK

TEST PROCEDURE NO. 124

4.3

GO TO STATEMENT (SWITCHES)

IS OK

TEST PROCEDURE NO. 125

5.11.3.2 PROCEDURE BODY VARIATIONS

IS OK

TEST PROCEDURE NO. 126

5.11.3.2 RECURSIVE PROCEDURES

IS OK

TEST PROCEDURE NO. 127

5.11.4 TYPED PROCEDURE

IS OK

TEST PROCEDURE NO. 128

5.11 A WEB OF PROCEDURE CALLS

IS OK

TEST PROCEDURE NO. 131

5.12.12 COMPOUND STREAM STATEMENT

IS OK

normal end of CHECKAL test run

LABEL 00000000FNOK 00175095?COMPILE X098ROUSH/CHECKAL ALGOL

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