```
   MM        MM  AAAAAAAAA   NN        NN  DDDDDDDDD       ##     ##   PPPPPPPPPP   AAAAAAAAAA   SSSSSSSSSS
   MMM      MMM  AAAAAAAAAAAA NNN      NN  DDDDDDDDDD      ##     ##   PPPPPPPPPPPP  AAAAAAAAAAAA SSSSSSSSSSSS
   MMMM    MMMM AA        AA NNNN     NN DD        DD  ############  PP        PP AA        AA SS        SS
   MM MM  MM MM AA        AA NN NN    NN DD        DD  ############  PP        PP AA        AA SS
   MM  MMMM  MM AA        AA NN  NN   NN DD        DD    ##     ##   PP        PP AA        AA SSS
   MM   MM   MM AAAAAAAAAAAA NN   NN  NN DD        DD    ##     ##   PPPPPPPPPPPP AAAAAAAAAAAA SSSSSSSSSS
   MM        MM AAAAAAAAAAAA NN    NN NN DD        DD    ##     ##   PPPPPPPPPPPP AAAAAAAAAAAA SSSSSSSSSS
   MM        MM AA        AA NN     NNNN DD        DD    ##     ##   PP                  AA        AA         SSS
   MM        MM AA        AA NN      NNNN DD        DD ############  PP                  AA        AA SS        SS
   MM        MM AA        AA NN       NN DDDDDDDDDD     ##     ##    PP                  AA        AA SSSSSSSSSSSS
   MM        MM AA        AA NN        N DDDDDDDDD      ##     ##    PP                  AA        AA SSSSSSSSSS


     JJJJJJJJJJ       11       3333333333    00000000    3333333333                    AAAAAAAAAA
     JJJJJJJJJJ       111    333333333333   0000000000  333333333333                   AAAAAAAAAAAA
          JJ        1111     33        33   00      0000 33          33                 AA        AA
          JJ          11               33   00     00 00            33                 AA        AA
          JJ          11               33   00    00  00            33                 AA        AA
          JJ          11             3333    00   00   00         3333                 AAAAAAAAAAAA
          JJ          11             3333    00  00    00         3333                 AAAAAAAAAAAA
          JJ          11               33    00 00     00           33                 AA        AA
   JJ     JJ          11               33    0000      00           33                 AA        AA
   JJ     JJ          11     33        33    000        00 33        33                 AA        AA
     JJJJJJJJ    1111111111  333333333333   0000000000  333333333333                   AA        AA
     JJJJJJ      1111111111   3333333333     00000000    3333333333                     AA        AA


****A  START  JOB 1303  MAND#PAS                        ROOM        11.20.20 AM 17 MAY 20  PRINTER1  SYS TK4-  JOB 1303  START  A****
****A  START  JOB 1303  MAND#PAS                        ROOM        11.20.20 AM 17 MAY 20  PRINTER1  SYS TK4-  JOB 1303  START  A****
****A  START  JOB 1303  MAND#PAS                        ROOM        11.20.20 AM 17 MAY 20  PRINTER1  SYS TK4-  JOB 1303  START  A****
****A  START  JOB 1303  MAND#PAS                        ROOM        11.20.20 AM 17 MAY 20  PRINTER1  SYS TK4-  JOB 1303  START  A****
```

```
                         J E S 2   J O B   L O G
```

```
11.20.19 JOB 1303  IEF677I WARNING MESSAGE(S) FOR JOB MAND#PAS ISSUED
11.20.19 JOB 1303  $HASP373 MAND#PAS STARTED - INIT  1 - CLASS A - SYS TK4-
11.20.19 JOB 1303  IEF403I MAND#PAS - STARTED - TIME=11.20.19
11.20.19 JOB 1303  IEFACTRT - STEPNAME  PROCSTEP  PROGRAM   RETCODE
11.20.19 JOB 1303  MAND#PAS   COMPILE             PASCAL    RC= 0000
11.20.20 JOB 1303  MAND#PAS   POSTPROC            ASMPCODE  RC= 0000
11.20.20 JOB 1303  MAND#PAS   GO                  LOADER    RC= 0000
11.20.20 JOB 1303  IEF404I MAND#PAS - ENDED - TIME=11.20.20
11.20.20 JOB 1303  $HASP395 MAND#PAS ENDED
```

```
------ JES2 JOB STATISTICS ------

 17 MAY 20 JOB EXECUTION DATE

         4 CARDS READ

       307 SYSOUT PRINT RECORDS

         0 SYSOUT PUNCH RECORDS

      0.00 MINUTES EXECUTION TIME
```

```
     1      //MAND#PAS JOB CLASS=A,MSGCLASS=A,MSGLEVEL=(1,1),NOTIFY=HERC01,        JOB 1303
            //              USER=HERC01,PASSWORD=         GENERATED BY IKJEFF10
     2      // EXEC PASCG,PARM.COMPILE='D-,K+',PARM.GO=MAP
     3      XXPASCG  PROC  GOTIME=299,GOPARM=,GOREG=2048K,DUMP='DUMMY,',          00010000
            XX              SOUT='*',WORK=VIO,OPT='M+' 1..72 MARGINS             00020000
            ***                                                                 00030000
            ***                                                                 00040000
     4      XXCOMPILE EXEC PGM=PASCAL,REGION=8192K,PARM='&OPT'                   00050000
     5      XXSTEPLIB  DD  DSN=PASCAL.PASLIB,DISP=SHR                           00060000
     6      XXINPUT    DD  DDNAME=SYSIN                                         00070000
     7      XXPRD      DD  DSN=PASCAL.PASOBJ(PASMSG),DISP=SHR                   00080000
     8      XXOUTPUT   DD  SYSOUT=&SOUT                                         00090000
     9      XXPRR      DD  DSN=&&PCODE,UNIT=&WORK,DCB=RECFM=VB,                 00100000
            XX              SPACE=(TRK,(20,5),RLSE),DISP=(,PASS)                00110000
    10      XXQRR      DD  DSN=&&TABLES,UNIT=&WORK,DCB=RECFM=VB,                00120000
            XX              SPACE=(TRK,(5,2),RLSE),DISP=(,PASS)                 00130000
            ***                                                                 00140000
            ***                                                                 00150000
    11      //SYSIN DD DSN=MANDEL.TEST.SOURCE(MAND#PAS),DISP=SHR
    12      XXPOSTPROC EXEC PGM=ASMPCODE,COND=(0,LT,COMPILE),REGION=2048K       00160000
    13      XXSTEPLIB  DD  DSN=PASCAL.PASLIB,DISP=SHR                          00170000
    14      XXINPUT    DD  DSN=*.COMPILE.PRR,DISP=(OLD,DELETE)                 00180000
    15      XXPRD      DD  DSN=*.COMPILE.QRR,DISP=(OLD,PASS)                   00190000
    16      XXOUTPUT   DD  SYSOUT=&SOUT                                        00200000
    17      XXPRR      DD  DSN=&&OBJECT,UNIT=&WORK,DCB=RECFM=FB,               00210000
            XX              SPACE=(TRK,(10,5),RLSE),DISP=(,PASS)               00220000
            ***                                                                00230000
            ***                                                                00240000
    18      XXGO       EXEC  PGM=LOADER,COND=((0,LT,COMPILE),(0,LT,POSTPROC)), 00250000
            XX              PARM='//TIME=&GOTIME,&GOPARM',REGION=&GOREG        00260000
    19      XXSTEPLIB  DD  DSN=PASCAL.PASLIB,DISP=SHR    (NEEDED FOR K+ ONLY)  00270000
    20      XXSYSLIN   DD  DSN=*.POSTPROC.PRR,DISP=(OLD,DELETE)               00280000
    21      XXSYSLOUT  DD  SYSOUT=&SOUT                                        00290000
    22      XXSYSLIB   DD  DISP=SHR,DSN=PASCAL.PASLIB                          00300000
    23      XX         DD  DISP=SHR,DSN=SYS1.FORTLIB                           00310000
    24      XXINPUT    DD  DDNAME=SYSIN                                        00320000
    25      XXPRD      DD  DUMMY                                               00330000
    26      XXQRD      DD  DSN=*.COMPILE.QRR,DISP=(OLD,DELETE)                 00340000
    27      XXFT06F001 DD  SYSOUT=&SOUT                                        00350000
    28      XXOUTPUT   DD  SYSOUT=&SOUT                                        00360000
    29      XXQRR      DD  UNIT=&WORK,SPACE=(TRK,(2,2))                        00370000
    30      XXSYSUDUMP DD  &DUMP.SYSOUT=&SOUT                                  00380000
            ***                                                                00390000
```

```
   STMT NO. MESSAGE
-
      4       IEF653I SUBSTITUTION JCL - PGM=PASCAL,REGION=8192K,PARM='M+'
      8       IEF653I SUBSTITUTION JCL - SYSOUT=*
      9       IEF653I SUBSTITUTION JCL - DSN=&&PCODE,UNIT=VIO,DCB=RECFM=VB,
     10       IEF653I SUBSTITUTION JCL - DSN=&&TABLES,UNIT=VIO,DCB=RECFM=VB,
     16       IEF653I SUBSTITUTION JCL - SYSOUT=*
     17       IEF653I SUBSTITUTION JCL - DSN=&&OBJECT,UNIT=VIO,DCB=RECFM=FB,
     18       IEF653I SUBSTITUTION JCL - PARM='//TIME=299,',REGION=2048K
     21       IEF653I SUBSTITUTION JCL - SYSOUT=*
     27       IEF653I SUBSTITUTION JCL - SYSOUT=*
     28       IEF653I SUBSTITUTION JCL - SYSOUT=*
     29       IEF653I SUBSTITUTION JCL - UNIT=VIO,SPACE=(TRK,(2,2))
     30       IEF653I SUBSTITUTION JCL - DUMMY,SYSOUT=*
     30       IEF686I DDNAME REFERRED TO ON DDNAME KEYWORD IN PRIOR STEP WAS NOT RESOLVED
IEF236I ALLOC. FOR MAND#PAS COMPILE
IEF237I 280  ALLOCATED TO STEPLIB
IEF237I 191  ALLOCATED TO SYS00426
IEF237I 242  ALLOCATED TO INPUT
IEF237I 290  ALLOCATED TO PRD
IEF237I JES2 ALLOCATED TO OUTPUT
IEF237I VIO  ALLOCATED TO PRR
IEF237I VIO  ALLOCATED TO QRR
IEF142I MAND#PAS COMPILE - STEP WAS EXECUTED - COND CODE 0000
IEF285I   PASCAL.PASLIB                                 KEPT           *--------0
IEF285I    VOL SER NOS= PUB002.
IEF285I   SYS1.UCAT.MVS                                 KEPT           *--------0
IEF285I    VOL SER NOS= MVSCAT.
IEF285I   MANDEL.TEST.SOURCE                            KEPT           *--------2
IEF285I    VOL SER NOS= MV0001.
IEF285I   PASCAL.PASOBJ                                 KEPT           *--------0
IEF285I    VOL SER NOS= PUB003.
IEF285I   JES2.JOB01303.S00101                          SYSOUT
IEF285I   SYS20138.T112019.RA000.MAND#PAS.PCODE         PASSED         *--------1
IEF285I   SYS20138.T112019.RA000.MAND#PAS.TABLES        PASSED         *--------1
IEF373I STEP /COMPILE / START 20138.1120
IEF374I STEP /COMPILE / STOP  20138.1120 CPU    0MIN 00.06SEC SRB    0MIN 00.00SEC VIRT  4148K SYS    244K
*************************************************************************************************************
*    1. JOBSTEP OF JOB: MAND#PAS     STEPNAME: COMPILE     PROGRAM NAME: PASCAL     EXECUTED ON 17.05.20 FROM 11.20.19 TO 11.20.19 *
*          ELAPSED TIME   24:00:00,12                   CPU-IDENTIFIER:  TK4-          PAGE-IN:      0          *
*          CPU TIME   00:00:00,06               VIRTUAL STORAGE USED:    4148K         PAGE-OUT:     0          *
*          CORR. CPU:  00:00:00,06   CPU TIME HAS BEEN CORRECTED BY  1 / 1,0  MULTIPLIER                        *
*                                                                                                              *
*    I/O OPERATION                                                                                             *
*    NUMBER OF RECORDS READ VIA DD * OR DD DATA:      0                                                        *
*    280.......0 191.......0 242.......2 290.......0 DMY.......0 FFF.......1 FFF.......1                        *
*                                                                                                              *
*                             CHARGE FOR STEP (W/O SYSOUT):          0,10                                      *
*************************************************************************************************************
IEF236I ALLOC. FOR MAND#PAS POSTPROC
IEF237I 280  ALLOCATED TO STEPLIB
IEF237I 191  ALLOCATED TO SYS00428
IEF237I VIO  ALLOCATED TO INPUT
IEF237I VIO  ALLOCATED TO PRD
IEF237I JES2 ALLOCATED TO OUTPUT
IEF237I VIO  ALLOCATED TO PRR
IEF142I MAND#PAS POSTPROC - STEP WAS EXECUTED - COND CODE 0000
IEF285I   PASCAL.PASLIB                                 KEPT           *--------0
IEF285I    VOL SER NOS= PUB002.
IEF285I   SYS1.UCAT.MVS                                 KEPT           *--------0
IEF285I    VOL SER NOS= MVSCAT.
IEF285I   SYS20138.T112019.RA000.MAND#PAS.PCODE         DELETED        *--------2
IEF285I   SYS20138.T112019.RA000.MAND#PAS.TABLES        PASSED         *--------2
```

```
IEF285I    JES2.JOB01303.S00102                     SYSOUT
IEF285I    SYS20138.T112019.RA000.MAND#PAS.OBJECT    PASSED          *--------1
IEF373I STEP /POSTPROC/ START 20138.1120
IEF374I STEP /POSTPROC/ STOP  20138.1120 CPU    0MIN 00.04SEC SRB    0MIN 00.00SEC VIRT 2064K SYS   300K
**********************************************************************************************************
*     2. JOBSTEP OF JOB: MAND#PAS    STEPNAME: POSTPROC   PROGRAM NAME: ASMPCODE   EXECUTED ON 17.05.20 FROM 11.20.19 TO 11.20.20 *
*         ELAPSED TIME  24:00:00,07                  CPU-IDENTIFIER: TK4-          PAGE-IN:      0                 *
*           CPU TIME  00:00:00,04              VIRTUAL STORAGE USED:   2064K       PAGE-OUT:     0                 *
*         CORR. CPU:  00:00:00,04   CPU TIME HAS BEEN CORRECTED BY  1 / 1,0  MULTIPLIER                            *
*                                                                                                                 *
*     I/O OPERATION                                                                                               *
*     NUMBER OF RECORDS READ VIA DD * OR DD DATA:     0                                                           *
*     280.......0 191.......0 FFF.......2 FFF.......2 DMY.......0 FFF.......1                                      *
*                                                                                                                 *
*                                   CHARGE FOR STEP (W/O SYSOUT):        0,06                                     *
**********************************************************************************************************
IEF236I ALLOC. FOR MAND#PAS GO
IEF237I 280  ALLOCATED TO STEPLIB
IEF237I 191  ALLOCATED TO SYS00430
IEF237I VIO  ALLOCATED TO SYSLIN
IEF237I JES2 ALLOCATED TO SYSLOUT
IEF237I 280  ALLOCATED TO SYSLIB
IEF237I 148  ALLOCATED TO
IEF237I DMY  ALLOCATED TO INPUT
IEF237I DMY  ALLOCATED TO PRD
IEF237I VIO  ALLOCATED TO QRD
IEF237I JES2 ALLOCATED TO FT06F001
IEF237I JES2 ALLOCATED TO OUTPUT
IEF237I VIO  ALLOCATED TO QRR
IEF237I DMY  ALLOCATED TO SYSUDUMP
IEF142I MAND#PAS GO - STEP WAS EXECUTED - COND CODE 0000
IEF285I    PASCAL.PASLIB                             KEPT            *--------0
IEF285I    VOL SER NOS= PUB002.
IEF285I    SYS1.UCAT.MVS                             KEPT            *--------0
IEF285I    VOL SER NOS= MVSCAT.
IEF285I    SYS20138.T112019.RA000.MAND#PAS.OBJECT    DELETED         *--------2
IEF285I    JES2.JOB01303.S00103                      SYSOUT
IEF285I    PASCAL.PASLIB                             KEPT            *-------14
IEF285I    VOL SER NOS= PUB002.
IEF285I    SYS1.FORTLIB                              KEPT            *--------1
IEF285I    VOL SER NOS= MVSRES.
IEF285I    SYS20138.T112019.RA000.MAND#PAS.TABLES    DELETED         *--------2
IEF285I    JES2.JOB01303.S00104                      SYSOUT
IEF285I    JES2.JOB01303.S00105                      SYSOUT
IEF285I    SYS20138.T112019.RA000.MAND#PAS.R0000001  DELETED         *--------3
IEF373I STEP /GO      / START 20138.1120
IEF374I STEP /GO      / STOP  20138.1120 CPU    0MIN 00.16SEC SRB    0MIN 00.00SEC VIRT  2052K SYS    288K
**********************************************************************************************************
*     3. JOBSTEP OF JOB: MAND#PAS    STEPNAME: GO          PROGRAM NAME: LOADER     EXECUTED ON 17.05.20 FROM 11.20.20 TO 11.20.20 *
*         ELAPSED TIME  24:00:00,21                  CPU-IDENTIFIER: TK4-          PAGE-IN:      0                 *
*           CPU TIME  00:00:00,16              VIRTUAL STORAGE USED:   2052K       PAGE-OUT:     0                 *
*         CORR. CPU:  00:00:00,16   CPU TIME HAS BEEN CORRECTED BY  1 / 1,0  MULTIPLIER                            *
*                                                                                                                 *
*     I/O OPERATION                                                                                               *
*     NUMBER OF RECORDS READ VIA DD * OR DD DATA:     0                                                           *
*     280.......0 191.......0 FFF.......2 DMY.......0 280......14 148.......1 DMY.......0 DMY.......0 FFF.......2 DMY.......0    *
*     DMY.......0 FFF.......3 DMY.......0                                                                          *
*                                                                                                                 *
*                                   CHARGE FOR STEP (W/O SYSOUT):        0,26                                     *
**********************************************************************************************************
IEF375I  JOB /MAND#PAS/ START 20138.1120
IEF376I  JOB /MAND#PAS/ STOP  20138.1120 CPU    0MIN 00.26SEC SRB    0MIN 00.00SEC
```

```
LINE #  P/D LC  LVL      < STANFORD PASCAL COMPILER, VERSION OF OCT.-79 >     11:20:19  05-17-1920     PAGE   1
------  ------  ---                                                                                    ---- ---

       1              ) PROGRAM MANDELBROTSET(OUTPUT);
       2              ) LABEL 99;
       3              ) CONST XSIZE=131;
       4              )       YSIZE=48;
       5              )       MINRE=-2;
       6              )       MINIM=-1;
       7              )       MAXRE=1;
       8              )       MAXIM=1;
       9              ) VAR STEPX,STEPY,RE,IM,ZR,ZI,A,B:REAL;
      10     368  1)      X,Y,N:INTEGER;
      11     380  1)      STR:ARRAY[1..27] OF CHAR;
      12     407  1) BEGIN
      13              )      STEPX:=(MAXRE-MINRE)/XSIZE;
      14      15  1)      STEPY:=(MAXIM-MINIM)/YSIZE;
      15      23  1)      STR:='ABCDEFGHIJKLMNOPQRSTUVWXYZ ';
      16      26  1)      FOR Y:=0 TO YSIZE
      17      28  1)      DO BEGIN
      18      35  1)           IM:=MINIM+STEPY*Y;
      19      43  1)           WRITE(' ');
      20      49  1)           FOR X:=0 TO XSIZE
      21      51  1)           DO BEGIN
      22      58  1)                RE:=MINRE+STEPX*X;
      23      66  1)                ZR:=RE;
      24      68  1)                ZI:=IM;
      25      70  1)                FOR N:=1 TO 27
      26      72  1)                DO BEGIN
      27      79  1)                     A:=ZR*ZR;
      28      83  1)                     B:=ZI*ZI;
      29      87  1)                     IF(A+B)>4
      30      90  1)                     THEN GOTO 99;
      31      96  1)                     ZI:=ZR*ZI*2+IM;
      32     105  1)                     ZR:=A-B+RE
      33     108  1)                END;
      34     119  1) 99:          WRITE(STR[N]:1)
      35     130  1)           END;
      36     138  1)        WRITELN
      37     138  1)      END
      38     142  1) END.


    ****      NO  SYNTAX ERROR(S) DETECTED.

    ****      38  LINE(S) READ,     0 PROCEDURE(S) COMPILED,

    ****     152  P_INSTRUCTIONS GENERATED,    0.00 SECONDS IN COMPILATION.
```

```
****      STANFORD PASCAL POST-PROCESSOR, VERSION OF OCT.-79.

****      NO ASSEMBLY ERROR(S) DETECTED.

****      712 BYTES OF CODE GENERATED,  0.00 SECONDS IN POST_PROCESSING.
```

```
                                        VS LOADER

  OPTIONS USED - PRINT,MAP,NOLET,CALL,RES,NOTERM,SIZE=307200,NAME=**GO


       NAME   TYPE  ADDR         NAME   TYPE  ADDR         NAME   TYPE  ADDR         NAME   TYPE  ADDR         NAME   TYPE  ADDR

    $MAINBLK   SD  AC010     $PASENT *  SD  AC2D8     $PASINT *  LR  AC840     IFYVERRM*  LR  ACF0A     IHCERRM *  LR  ACF0A
    IHOERRM *  LR  ACF0A     IHNERRM *  LR  ACF0A     ERRMON  *  LR  ACF0A     IFYVERRE*  LR  ACF3E     IHOERRE *  LR  ACF3E
    IHNERRE *  LR  ACF3E     IHCERRE *  LR  ACF3E     $PASCSP *  LR  ACF48     $WRADDR *  SD  AE5C0     $IDLEN  *  SD  AE770
    $GETPNAM*  SD  AE800     $ALIGN  *  SD  AE990     $ERRMSG *  SD  AE9D8     $TRANSVA*  SD  AECE0     $CNVTNUM*  SD  AED68
    $PRNT   *  SD  AEEA8     $IVSCAN *  SD  AFC38     $PRNTVAR*  SD  B02B0     $FROMLIN*  SD  B0830     $PRNTLNK*  SD  B09D0
    $PRNTSYS*  SD  B0B90     SNAPSHOT*  SD  B1668     #MAINBLK*  SD  B1B68


    TOTAL LENGTH      5BC0
    ENTRY ADDRESS     AC2D8
```

```
AAAAAAAAAAAAABBBBBBBBBBCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCDDDDDDDDDDDDDDEEEEEEFFGHILMIIJLKFEDDDDDDDDDDCCCCCCCCCCBBBBBBBBBBBBBBBBBBBB
AAAAAAAAAAAABBBBBBBBBBCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCDDDDDDDDDDDDDDEEEEEEFGGHIJMWNJIGFFEEDDDDDDDDDDCCCCCCCCCCBBBBBBBBBBBBBBBBBB
AAAAAAAAAABBBBBBBBBCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCDDDDDDDDDDDDDDEEEEEEEFFGGHHJMPTLJHGGFEEEDDDDDDDDDCCCCCCCCCCCBBBBBBBBBBBBBBBBBB
AAAAAAAAABBBBBBBBCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCDDDDDDDDDDDDDDDDEEEEEEEFGHINKKNY  WNJIIGFEEEEEDDDDDDDDDCCCCCCCCCCCBBBBBBBBBBBBBBBB
AAAAAAAABBBBBBBCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCDDDDDDDDDDDDDDDDEEEEEEEFFFGITNZVV        NRMIGFEEEEEEEDDDDDDDDCCCCCCCCCCCBBBBBBBBBBBBBB
AAAAAAABBBBBCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCDDDDDDDDDDDDDDDDEEEEFFFFFGGGHJLS          KIGGFFEEEEEEEEEDDDDDCCCCCCCCCCCCBBBBBBBBBBBB
AAAAAAABBBBCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCDDDDDDDDDDDDDDEEEEFGGGHHHGGGGHHIIJP        XMIHGGFFFFFEEEEEEDDDDDCCCCCCCCCCCCCBBBBBBBBBBB
AAAAAABBBBCCCCCCCCCCCCCCCCCCCCCCCCCCCCDDDDDDDDDDDDEEEEEEFGGK MO LJIIJM RL OPPT        XROONOKLQNHHGGGGHHMPFEDDDCCCCCCCCCCCCCBBBBBBBBBB
AAAAABBBBCCCCCCCCCCCCCCCCCCCCCCCCCDDDDDDDDDEEEEEEEEEEFFGGIO  ZT  LLP              VKIIJKJJKVJIFEEDDCCCCCCCCCCCCCBBBBBBBBB
AAAABBBBCCCCCCCCCCCCCCCCCCCCCCCCDDDDDDDDEEEEEEEEEEEEEFFFFGGIJQU     S              PM   VYXPIGEEDDDCCCCCCCCCCCCBBBBBBBB
AAAABBCCCCCCCCCCCCCCCCCCCCCCCDDDDDEEEEEEEEEEEEEEEFFFFFGHHIJMV                    W    WMIHFEEEDDDCCCCCCCCCCCCBBBBBB
AAABBCCCCCCCCCCCCCCCCCCCCDDDDEEEEEEEEEEEEEEEEEFFFFFFGHIMLLPS                       QLHGFFEEEDDDCCCCCCCCCCCCBBBBBB
AAABCCCCCCCCCCCCCCCCCCCCDDDDDEFFFFFEEEEEEEEEEEFFFFFFGGHIO   T                     QLJHGGFEEEDDDCCCCCCCCCCCCCBBBBB
AABBCCCCCCCCCCCCCCCCDDDDDDDEEEFJMJGFFFFFFFFFFFFFFGGGGGGGHHIKO                       XJHHHFEEDDDDCCCCCCCCCCCCCBBBBB
AABCCCCCCCCCCCDDDDDDDDDDDEEEEFFHKKHHGGGGHHJMHHGGGGGGHHHIK Q                        QRWMQGEEDDDDCCCCCCCCCCCCCCBBBB
AABCCCCCCCCCDDDDDDDDDDDEEEEEEEFFHJQKLKTJIIKTNKIIIIHHHIIIKP                          T GFEDDDDDCCCCCCCCCCCCCBBB
ABCCCCCCCDDDDDDDDDDDDDEEEEEEEEEFFGHHJKR  QNMMQV UO LKJIJJJ                          ZLIGFFEDDDDDCCCCCCCCCCCCBB
ABCCCDDDDDDDDDDDDDEEEEEEEEEEEFFGGGGIILO        VOLKKLO                           MKHFEEDDDDDDCCCCCCCCCCCCBB
ACCCDDDDDDDDDDDDDDEEEEEEEEEEEEFGGGGIJKMPU           NN                           HFEEDDDDDDCCCCCCCCCCCCCCB
ACCDDDDDDDDDDDDDEEEEEEEEEEEFGHHHIIJN            SR                            SLHGFEEDDDDDCCCCCCCCCCCCCB
ACDDDDDDDDDDDEEEFFFFFFFGGHI KJJKK Y             X                            NKGFEEEDDDDDDCCCCCCCCCCCCCB
ADDDEEDDDDDEFFFFFFFFFGGGGIIKQQQTTR                                       OIGFFEEEDDDDDDCCCCCCCCCCCCB
AEEEEFFFGGIHGGGGGHHHHIJJKLOT                                         LHGGFFEEEDDDDDDDCCCCCCCCCCCCB
Q                                                     VNKIHGFFFEEEDDDDDDCCCCCCCCCCCCCC
AEEEEFFFGGIHGGGGGHHHHIJJKLOT                                         LHGGFFEEEDDDDDDDCCCCCCCCCCCCB
ADDDEEDDDDDEFFFFFFFFFGGGGIIKQQQTTR                                       OIGFFEEEDDDDDDCCCCCCCCCCCCB
ACDDDDDDDDDDDEEEFFFFFFFGGHI KJJKK Y             X                            NKGFEEEDDDDDDCCCCCCCCCCCCCB
ACCDDDDDDDDDDDDDEEEEEEEEEEEFGHHHIIJN            SR                            SLHGFEEDDDDDCCCCCCCCCCCCCB
ACCCDDDDDDDDDDDDDDEEEEEEEEEEEEFGGGGIJKMPU           NN                           HFEEDDDDDDCCCCCCCCCCCCCCB
ABCCCDDDDDDDDDDDDDEEEEEEEEEEEFFGGGIILO        VOLKKLO                           MKHFEEDDDDDDCCCCCCCCCCCCBB
ABCCCCCCCDDDDDDDDDDDDDEEEEEEEEEFFGHHJKR  QNMMQV UO LKJIJJJ                          ZLIGFFEDDDDDCCCCCCCCCCCCBB
AABCCCCCCCCCDDDDDDDDDDDEEEEEEEFFHJQKLKTJIIKTNKIIIIHHHIIIKP                          T GFEDDDDDCCCCCCCCCCCCCBBB
AABCCCCCCCCCCCDDDDDDDDDDDEEEEFFHKKHHGGGGHHJMHHGGGGGGHHHIK Q                        QRWMQGEEDDDDCCCCCCCCCCCCCCBBB
AABBCCCCCCCCCCCCCCCCDDDDDDDEEEFJMJGFFFFFFFFFFFFFFGGGGGGGHHIKO                       XJHHHFEEDDDDCCCCCCCCCCCCCBBBB
AAABCCCCCCCCCCCCCCCCCCCCDDDDDEFFFFFEEEEEEEEEEEFFFFFFGGHIO   T                     QLJHGGFEEEDDDCCCCCCCCCCCCCBBBBB
AAABBCCCCCCCCCCCCCCCCCCCCDDDDEEEEEEEEEEEEEEEEEFFFFFFGHIMLLPS                       QLHGFFEEEDDDCCCCCCCCCCCCBBBBBB
AAAABBCCCCCCCCCCCCCCCCCCCCCCCDDDDDEEEEEEEEEEEEEEEFFFFFGHHIJMV                    W    WMIHFEEEDDDCCCCCCCCCCCCBBBBBB
AAAABBBCCCCCCCCCCCCCCCCCCCCCCCCDDDDDDDDEEEEEEEEEEEEEFFFFGGIJQU     S              PM   VYXPIGEEDDDCCCCCCCCCCCCBBBBBBB
AAAAABBBCCCCCCCCCCCCCCCCCCCCCCCCCDDDDDDDDDEEEEEEEEEEFFGGIO  ZT  LLP              VKIIJKJJKVJIFEEDDCCCCCCCCCCCCCBBBBBBBB
AAAAABBBBCCCCCCCCCCCCCCCCCCCCCCCCCCCCDDDDDDDDDDDDEEEEEFFGK MO LJIIJM RL OPPT        XROONOKLQNHHGGGGHHMPFEDDDCCCCCCCCCCCCCCBBBBBBBBB
AAAAAABBBBCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCDDDDDDDDDDDDDDEEEEFGGGHHHGGGGHHIIJKLQ        TKJIHHHGFFFFFFFGGFEDDDDCCCCCCCCCCCCCBBBBBBBBBB
AAAAAAABBBBBCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCDDDDDDDDDDDDDDDDEEEEEFFFFFFGGGGHIJP        XMIHGGFFFFFEEEEEEDDDDDCCCCCCCCCCCCCBBBBBBBBBBB
AAAAAAAABBBBBCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCDDDDDDDDDDDDDDDDEEEEFFFFFFFGGGGHJLS          KIGGFFEEEEEEEEEDDDDDCCCCCCCCCCCCBBBBBBBBBBBB
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AAAAAAAAAABBBBBBBBBCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCDDDDDDDDDDDDDDDDEEEEEEEFFGGHHJMPTLJHGGFEEEDDDDDDDDDCCCCCCCCCCCBBBBBBBBBBBBBBBB
AAAAAAAAAAABBBBBBBBBCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCDDDDDDDDDDDDDDEEEEEEFGGHIJMWNJIGFFEEDDDDDDDDDDCCCCCCCCCCCBBBBBBBBBBBBBBBB
AAAAAAAAAAAABBBBBBBBBBBCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCDDDDDDDDDDDDDDDDEEEEEEFFGHILMIIJLKFEDDDDDDDDDDCCCCCCCCCCBBBBBBBBBBBBBBBBBBBBB
```

```
LINE # RANGE   RUN CNT  CONSTRUCT      PAGE   1
---- - -----   --- ---  ---------      ---- ---

   13  -   38        1  PROCEDURE: $MAINBLK
   17  -   38       49    FOR STMT
   21  -   35     6468      FOR STMT
   26  -   33    70297        FOR STMT
   30  -   30     4716          THEN CLAUSE
   34  -   34     6468          LABELLED STMT
```

```
    MM        MM   AAAAAAAAA    NN        NN  DDDDDDDDD        ##      ##   PPPPPPPPPPP   AAAAAAAAAA    SSSSSSSSSS
   MMM      MMM   AAAAAAAAAAAA  NNN       NN  DDDDDDDDDD       ##      ##   PPPPPPPPPPPP  AAAAAAAAAAAA  SSSSSSSSSSSS
  MMMM    MMMM  AA        AA  NNNN      NN  DD        DD  ############  PP        PP  AA        AA  SS        SS
  MM MM  MM MM  AA        AA  NN NN     NN  DD        DD  ############  PP        PP  AA        AA  SS
  MM  MMMM  MM  AA        AA  NN  NN    NN  DD        DD  ##      ##  PP        PP  AA        AA  SSS
  MM   MM   MM  AAAAAAAAAAAA  NN   NN   NN  DD        DD  ##      ##  PPPPPPPPPPPP  AAAAAAAAAAAA  SSSSSSSSSS
  MM        MM  AAAAAAAAAAAA  NN    NN  NN  DD        DD  ##      ##  PPPPPPPPPPPP  AAAAAAAAAAAA  SSSSSSSSSS
  MM        MM  AA        AA  NN     NN NN  DD        DD  ##      ##  PP                 AA        AA        SSS
  MM        MM  AA        AA  NN      NNNN  DD        DD  ############  PP              AA        AA        SS
  MM        MM  AA        AA  NN       NNN  DD        DD  ############  PP              AA        AA  SS        SS
  MM        MM  AA        AA  NN        NN  DDDDDDDDDD       ##      ##   PP              AA        AA  SSSSSSSSSSSS
  MM        MM  AA        AA  NN         N  DDDDDDDDD        ##      ##   PP              AA        AA  SSSSSSSSSS


        JJJJJJJJJJ      11      3333333333     00000000      3333333333                AAAAAAAAAA
        JJJJJJJJJJ      111     333333333333   0000000000    333333333333              AAAAAAAAAAAA
             JJ       1111    33        33   00      0000  33          33            AA        AA
             JJ         11              33   00      00 00             33            AA        AA
             JJ         11              33   00    00  00             33            AAAAAAAAAA
             JJ         11            3333    00    00  00           3333            AAAAAAAAAAAA
             JJ         11            3333    00  00    00           3333            AAAAAAAAAA
             JJ         11              33   00 00     00             33            AA        AA
       JJ    JJ         11              33   0000       00           33            AA        AA
       JJ    JJ         11    33        33   000        00  33          33            AA        AA
        JJJJJJJJ     1111111111   333333333333  0000000000    333333333333              AA        AA
        JJJJJJ      1111111111    3333333333    00000000      3333333333              AA        AA


****A     END    JOB 1303    MAND#PAS                          ROOM        11.20.20 AM 17 MAY 20   PRINTER1  SYS TK4-   JOB 1303    END    A****
****A     END    JOB 1303    MAND#PAS                          ROOM        11.20.20 AM 17 MAY 20   PRINTER1  SYS TK4-   JOB 1303    END    A****
****A     END    JOB 1303    MAND#PAS                          ROOM        11.20.20 AM 17 MAY 20   PRINTER1  SYS TK4-   JOB 1303    END    A****
****A     END    JOB 1303    MAND#PAS                          ROOM        11.20.20 AM 17 MAY 20   PRINTER1  SYS TK4-   JOB 1303    END    A****
```