		M MM		MM MMM A	AAAAAAAAA AAAAAAAAA	NN NNN	NN NN	DDDDDDD DDDDDDDD		## # ## ##	## PP	PPPPPPPPPPPPPPPPPPPPPPPPPPPPPPPPPPPPPPP			SSSSSSSSS SSSSSSSSS	
		MMM		MMMM AA		NNNN	NN D			,,, ########			AA	AA SS	SS	,
		MM M		MM AA		NN N	NN DD			#######				AA SS		
		MM M	MMM	MM AA	AA NN	NN	NN DD	D) ##	##	PP	PP AA	. A <i>A</i>			
	MI				AAAAAA NN	NN	NN DD	DD	##	##	PPPPPPP		AAAAAAAA	SSSSS		
	MM		MM			NN	NN DD	DD	##		PPPPPPP		AAAAAAA	SSSSS		
	MM		MM	AA	AA NN	NN 1		DD		## PF	>	AA	AA		SSS	
	MM			AA	AA NN	NNNI			#######			AA	AA		SS	
	MM			AA	AA NN	NNN			#######			AA	AA SS	S	S	
	MM		M AA		AA NN		DDDDDDDDD			PP		AA	AA SSSS	SSSSSSSS		
	MM	MM	AA	А	A NN	N [DDDDDDDDD	##	##	PP		AA	AA SSSS	SSSSSS		
			11	וווווווו	444	31	33333333	1	1				AAAAA	λ Λ Λ Λ		
					4444		3333333333						AAAAAA			
			330	JJ	44 44	33							AA	AA		
				ĴĴ	44 44	33	33						AA	AA		
				ĴĴ	44 44		33	ī					AA	AA		
				JJ	444444444		3333	1	l				AAAAAA	AAAAA		
				JJ	44444444444	4	3333	1					AAAAAA			
				JJ	44		33	1					AA	AA		
			JJ	ΊΪ	44		33	1	l				AA	AA		
			JJ	JJ	44	33	33						AA	AA		
			1111		44		3333333333						AA	AA		
]]],	111	44	3.	333333333	11111	11111				AA	AA		
****A	START	JOB	431	MAND#PA	C		DO	OM	2 22 2	7 PM 10	IIIN 20	PRINTER1	SYS TK4-	JOB 43	1 START	A****
****A	START	JOB	431	MAND#PA				OM		7 PM 10		PRINTER1	SYS TK4-	JOB 43		A****
****A	START	JOB	431	MAND#PA				OM OM		7 PM 10		PRINTER1	SYS TK4-	JOB 43		A****
****A	START	JOB	431	MAND#PA			RO		2.22.2	7 PM 10	JUN 20	PRINTER1	SYS TK4-	JOB 43		A****
	517	300	.51		-		110	J		10	55.1 20		313 111	335 13	2 317(1	• • • • • • •

JES2 JOB LOG

```
14.22.25 JOB
             431
                  IEF677I WARNING MESSAGE(S) FOR JOB MAND#PAS ISSUED
14.22.25 JOB
14.22.25 JOB
             431 $HASP373 MAND#PAS STARTED - INIT 1 - CLASS A - SYS TK4-
             431 IEF403I MAND#PAS - STARTED - TIME=14.22.25
14.22.25 JOB 431 CCIOOIC COMPILE /PASCAL /00:00:00.07/00:00:00/00000/
                                                                               /MAND#PAS
                                  /PASCREF /00:00:00.05/00:00:00/00000/
14.22.25 JOB 431 CCI001C XREF
                                                                               /MAND#PAS
14.22.25 JOB 431 CCI001C POSTPROC/ASMPCODE/00:00:00.04/00:00:00/00000/
                                                                               /MAND#PAS
14.22.27 JOB 431 CCI001C GO
                                 /LOADER /00:00:02.20/00:00:02/00000/
                                                                               /MAND#PAS
14.22.27 JOB 431 IEF404I MAND#PAS - ENDED - TIME=14.22.27
14.22.27 JOB 431 $HASP395 MAND#PAS ENDED
```

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

10 JUN 20 JOB EXECUTION DATE

4 CARDS READ

1,556 SYSOUT PRINT RECORDS

O SYSOUT PUNCH RECORDS

0.04 MINUTES EXECUTION TIME

```
//MAND#PAS JOB CLASS=A.MSGCLASS=A.MSGLEVEL=(1,1).NOTIFY=HERC01.
                                                                                   J0B
                                                                                       431
                      USER=HERCO1, PASSWORD=
                                                     GENERATED BY IKJEFF10
       //
       // EXEC PAXCG, PARM. COMPILE= 'D-, K+', PARM. GO=MAP
       XXPAXCG PROC GOTIME=299, GOPARM=, GOREG=2048K, DUMP='DUMMY,',
                                                                                   00010000
                       SOUT='*'.WORK=VIO.OPT='M+' 1..72 MARGINS
                                                                                   00020000
       XX
       ***
                                                                                   00030000
                                                                                   00040000
       ***
       XXCOMPILE EXEC PGM=PASCAL, REGION=8192K, PARM='&OPT'
                                                                                   00050000
                       DSN=PASCAL.PASLIB,DISP=SHR
       XXSTEPLIB
                  DD
                                                                                   00060000
       XXINPUT
                   DD
                       DDNAME=SYSIN
                                                                                   00070000
                      DSN=PASCAL.PASOBJ(PASMSG),DISP=SHR
       XXPRD
                   DD
                                                                                   00080000
       XXOUTPUT
                       UNIT=&WORK.DSN=&&XIN.SPACE=(TRK.(19.19)).DISP=(.PASS)
                                                                                   00090000
                      DSN=&&PCODE,UNIT=&WORK,DCB=RECFM=VB,
       XXPRR
                   DD
                                                                                   00100000
       XX
                       SPACE=(TRK, (20,5), RLSE), DISP=(,PASS)
                                                                                   00110000
10
       XXQRR
                     DSN=&&TABLES,UNIT=&WORK,DCB=RECFM=VB,
                                                                                   00120000
                       SPACE=(TRK, (5,2), RLSE), DISP=(,PASS)
                                                                                   00130000
       XX
       ***
                                                                                   00140000
                                                                                   00150000
       ***
       //SYSIN DD DSN=MANDEL.TEST.SOURCE(MAND#PAS),DISP=SHR
12
                       PGM=PASCREF, REGION=2048K, COND=EVEN
                EXEC
                                                                                   00160000
       XXXREF
13
       XXSTEPLIB DD
                       DISP=SHR, DSN=PASCAL. PASLIB
                                                                                   00170000
14
       XXINPUT
                   DD
                      DISP=(OLD,DELETE),DSN=*.COMPILE.OUTPUT
                                                                                   00180000
15
       XXOUTPUT
                   DD SYSOUT=&SOUT
                                                                                   00190000
                                                                                   00200000
       ***
       ***
                                                                                   00210000
       XXPOSTPROC EXEC PGM=ASMPCODE, COND=(0, LT, COMPILE), REGION=2048K
                                                                                   00220000
17
       XXSTEPLIB
                  DD
                       DSN=PASCAL.PASLIB.DISP=SHR
                                                                                   00230000
18
                       DSN=*.COMPILE.PRR.DISP=(OLD.DELETE)
                                                                                   00240000
       XXINPUT
                   DD
19
                   DD DSN=*.COMPILE.QRR,DISP=(OLD,PASS)
                                                                                   00250000
       XXPRD
20
       XXOUTPUT
                   DD
                      SYSOUT=&SOUT
                                                                                   00260000
                      DSN=&&OBJECT,UNIT=&WORK,DCB=RECFM=FB,
21
       XXPRR
                  DD
                                                                                   00270000
       XX
                       SPACE=(TRK, (10.5), RLSE), DISP=(,PASS)
                                                                                   00280000
                                                                                   00290000
       ***
                                                                                   00300000
       ***
       XXGO
                                                                                   00310000
22
                EXEC
                       PGM=LOADER, COND=((0,LT,COMPILE),(0,LT,POSTPROC)),
       XX
                       PARM='//TIME=&GOTIME,&GOPARM',REGION=&GOREG
                                                                                   00320000
23
       XXSTEPLIB
                       DSN=PASCAL.PASLIB, DISP=SHR (NEEDED FOR K+ ONLY)
                                                                                   00330000
24
25
       XXSYSLIN
                  DD
                       DSN=*.POSTPROC.PRR.DISP=(OLD.DELETE)
                                                                                   00340000
       XXSYSLOUT
                  DD
                       SYSOUT=&SOUT
                                                                                   00350000
26
                      DISP=SHR.DSN=PASCAL.PASLIB
       XXSYSLIB
                  DD
                                                                                   00360000
27
       XX
                   DD
                       DISP=SHR, DSN=SYS1.FORTLIB
                                                                                   00370000
28
29
                       DDNAME=SYSIN
       XXINPUT
                   DD
                                                                                   00380000
       XXPRD
                   DD
                       DUMMY
                                                                                   00390000
30
                   DD
                       DSN=*.COMPILE.QRR.DISP=(OLD.DELETE)
       XXQRD
                                                                                   00400000
31
32
       XXFT06F001 DD
                       SYSOUT=&SOUT
                                                                                   00410000
                  DD
                       SYSOUT=&SOUT
                                                                                   00420000
       XXOUTPUT
33
       XXQRR
                   DD
                      UNIT=&WORK, SPACE=(TRK, (2,2))
                                                                                   00430000
       XXSYSUDUMP DD
                       &DUMP.SYSOUT=&SOUT
                                                                                   00440000
                                                                                   00450000
       ***
```

```
STMT NO. MESSAGE
         IEF653I SUBSTITUTION JCL - PGM=PASCAL,REGION=8192K,PARM='M+'
         IEF653I SUBSTITUTION JCL - UNIT=VIO,DSN=&&XIN,SPACE=(TRK,(19,19)),DISP=(,PASS)
         IEF653I SUBSTITUTION JCL - DSN=&&PCODE,UNIT=VIO,DCB=RECFM=VB,
         IEF653I SUBSTITUTION JCL - DSN=&&TABLES,UNIT=VIO,DCB=RECFM=VB,
         IEF653I SUBSTITUTION JCL - SYSOUT=*
         IEF653I SUBSTITUTION JCL - SYSOUT=*
         IEF653I SUBSTITUTION JCL - DSN=&&OBJECT,UNIT=VIO,DCB=RECFM=FB, IEF653I SUBSTITUTION JCL - PARM='//TIME=299,',REGION=2048K
         IEF653I SUBSTITUTION JCL - SYSOUT=*
   25
         IEF653I SUBSTITUTION JCL - SYSOUT=*
         IEF653I SUBSTITUTION JCL - SYSOUT=*
IEF653I SUBSTITUTION JCL - UNIT=VIO, SPACE=(TRK, (2,2))
         IEF653I SUBSTITUTION JCL - DUMMY,SYSOUT=*
         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 SYS00342
IEF237I 242 ALLOCATED TO INPUT
           ALLOCATED TO PRD
IEF237I 290
IEF237I VIO ALLOCATED TO OUTPUT
IEF237I VIO ALLOCATED TO PRR
IEF237I VIO ALLOCATED TO QRR
IEF142I MAND#PAS COMPILE - STEP WAS EXECUTED - COND CODE 0000
         PASCAL.PASLIB
IEF285I
         VOL SER NOS= PUB002.
IEF285I
                                                   KEPT *----0
         SYS1.UCAT.MVS
IEF285I
IEF285I
         VOL SER NOS= MVSCAT.
                                                   KEPT *----2
IEF285I
         MANDEL.TEST.SOURCE
         VOL SER NOS= MV0001.
IEF285I
         PASCAL.PASOBJ
                                                   KEPT
IEF285I
IEF285I
         VOL SER NOS= PUB003.
         SYS20162.T142225.RA000.MAND#PAS.XIN PASSED
SYS20162.T142225.RA000.MAND#PAS.PCODE PASSED
IEF285I
IEF285I
         SYS20162.T142225.RA000.MAND#PAS.TABLES
                                                   PASSED
IEF285I
IEF373I STEP /COMPILE / START 20162.1422
IEF374I STEP /COMPILE / STOP 20162.1422 CPU OMIN 00.07SEC SRB OMIN 00.00SEC VIRT 4148K SYS 272K
PRC-CCI 370/033 VS2 R03.8 TK4- STEP STATISTICS
* CPU $ ( 0.02) + EXCP $ ( 0.00) + MEMORY $ ( 0.82) = TOTAL $ ( 0.84)
IEF236I ALLOC. FOR MAND#PAS XREF
IEF237I 280 ALLOCATED TO STEPLIB
IEF237I 191 ALLOCATED TO SYS00344
IEF237I VIO ALLOCATED TO INPUT
IEF237I JES2 ALLOCATED TO OUTPUT
IEF142I MAND#PAS XREF - STEP WAS EXECUTED - COND CODE 0000
         PASCAL.PASLIB
IEF285I
IEF285I
         VOL SER NOS= PUB002.
         SYS1.UCAT.MVS
IEF285I
                                                   KEPT
         VOL SER NOS= MVSCAT.
IEF285I
IEF285I
         SYS20162.T142225.RA000.MAND#PAS.XIN
                                                   DELETED
                                                                *----3
IEF285I
         JES2.J0B00431.S00101
                                                   SYSOUT
IEF373I STEP /XREF
                 / START 20162.1422
                  / STOP 20162.1422 CPU OMIN 00.05SEC SRB
IEF374I STEP /XREF
                                                                OMIN 00.00SEC VIRT 2048K SYS
```

```
IEF236I ALLOC. FOR MAND#PAS POSTPROC
IEF237I 280 ALLOCATED TO STEPLIB
IEF237I 191 ALLOCATED TO SYS00346
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
        VOL SER NOS= PUB002.
IEF285I
                                             KEPT *----0
        SYS1.UCAT.MVS
IEF285I
IEF285I
        VOL SER NOS= MVSCAT.

      IEF285I
      SYS20162.T142225.RA000.MAND#PAS.PCODE
      DELETED
      *-----3

      IEF285I
      SYS20162.T142225.RA000.MAND#PAS.TABLES
      PASSED
      *-----2

      IEF285I
      JES2.J0B00431.S00102
      SYS0UT

      IEF285I
      SYS20162.T142225.RA000.MAND#PAS.0BJECT
      PASSED
      *------1

IEF373I STEP /POSTPROC/ START 20162.1422
IEF374I STEP /POSTPROC/ STOP 20162.1422 CPU OMIN 00.04SEC SRB OMIN 00.00SEC VIRT 2064K SYS 296K
* STEP NAME POSTPROC USER CORE 2064K TAPES USED/IO 000/00000000 START TIME 14:22:25 TCB TIME 00:00:00.04 *

* PGM NAME ASMPCODE SYSTEM CORE 296K DISKS USED/IO 002/000000000 STOP TIME 14:22:25 SRB TIME 00:00:00.00 *

* COND CODE 0000 PRIVATE AREA SZ 2048K ALLOC TIME 14:22:25 ELAPSED TIME 00:00:00 PGM LOAD 14:22:25 *

** PGNO * NR SRV UNITS * ACTIVE TIME *** PAGES IN *** PAGES OUT * # SWAPS * PGS SWAP IN * PGS SWAP OUT * VIO PGS IN * VIO PGS OUT **
* CPU $ ( 0.01) + EXCP $ ( 0.00) + MEMORY $ ( 0.23) = TOTAL $ ( 0.24)
IEF236I ALLOC. FOR MAND#PAS GO
IEF237I 280 ALLOCATED TO STEPLIB
IEF237I 191 ALLOCATED TO SYS00348
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
                                                     KEPT *----0
IEF285I PASCAL.PASLIB
IEF285I
         VOL SER NOS= PUB002.
                                                     KEPT
         SYS1.UCAT.MVS
VOL SER NOS= MVSCAT.
SYS20162.T142225.RA000.MAND#PAS.OBJECT DELETED
SYSOUT
IEF285I
         SYS1.UCAT.MVS
IEF285I
         VOL SER NOS= MVSCAT.
IEF285I
IEF285I
                                                     KEPT *----14
IEF285I
          PASCAL.PASLIB
         VOL SER NOS= PUB002.
IEF285I
                                                     KEPT *----1
IEF285I
          SYS1.FORTLIB
IEF285I
          VOL SER NOS= MVSRES.
                                                     DELETED
IEF285I
         SYS20162.T142225.RA000.MAND#PAS.TABLES
IEF285I
          JES2.J0B00431.S00104
                                                    SYSOUT
IEF285I
          JES2.J0B00431.S00105
                                                      SYSOUT
          SYS20162.T142225.RA000.MAND#PAS.R0000001
                                                      DELETED
IEF285I
                                                                   *----3
```

IEF373I STEP /GO / START 20162.1422 / STOP 20162.1422 CPU OMIN 02.20SEC SRB OMIN 00.00SEC VIRT 2052K SYS 316K IEF374I STEP /GO PRC-CCI 370/033 VS2 R03.8 TK4- STEP STATISTICS USER CORE 2052K TAPES USED/IO 000/00000000 START TIME 14:22:25 TCB TIME 00:00:02.20 * STEP NAME GO SYSTEM CORE SRB TIME 00:00:00.00 * * PGM NAME LOADER 316K DISKS USED/IO 003/00000015 STOP TIME 14:22:27 PRIVATE AREA SZ 2048K ALLOC TIME 14:22:25 ELAPSED TIME 00:00:02 PGM LOAD 14:22:25 * * COND CODE 0000 ** PGNO * NR SRV UNITS * ACTIVE TIME *** PAGES IN *** PAGES OUT * # SWAPS * PGS SWAP IN * PGS SWAP OUT * VIO PGS IN * VIO PGS OUT ** 0 0 24438 00:00:02.24 0 0 0 * 004 * CPU \$ (0.79) + EXCP \$ (0.02) + MEMORY \$ (12.86) = TOTAL \$ (13.67) IEF375I JOB /MAND#PAS/ START 20162.1422 IEF376I JOB /MAND#PAS/ STOP 20162.1422 CPU OMIN 02.36SEC SRB OMIN 00.00SEC

```
LINE # P/D LC LVL
                        STANFORD PASCAL COMPILER, VERSION OF OCT.-79 > 14:22:25 06-10-1920
                                                                                                        PAGE 1
                 ) PROGRAM MANDELBROTSET(OUTPUT); (* POSTER DELLO INSIEME DI MANDELBROT *)
                   CONST MAXIT=27; (* NUMERO DI "COLORI" IN REALTÀ CARATTERI *)
                   VAR STR:ARRAY[1..MAXIT] OF CHAR; (* TAVOLOZZA DEI COLORI/CARATTERI *)
           331 1)
           331 1)
                       PROCEDURE MANDELBROT(MINRE, MINIM, MAXRE, MAXIM: REAL; STRP: INTEGER);
                      LABEL 99: (* EAT YOUR HEART OUT DIJKSTRA *)
                      VAR STEPX, STEPY, RE, IM, ZR, ZI, A, B: REAL;
           184 2)
                          XSIZE, YSIZE, X, Y, N, S: INTEGER;
           208 2)
                       BEGIN
                         XSIZE:=131*STRP; (* LE COLONNE VENGONO CONTATE 0..131 *)
    10
    11
                2)
                         YSIZE:=48*STRP; (* 0..49 RIGHE APPROSSIMANO IL RAPPORTO 3:2 *)
    12
            10 2)
                         STRP:=STRP-1;
    13
            14
                2)
                          STEPX:=(MAXRE-MINRE)/XSIZE:
                2)
    14
            21
                         STEPY:=(MAXIM-MINIM)/YSIZE;
    15
            28
                2)
                         FOR S:=0 TO STRP (* CICLO PRINCIPALE: QUANTE STRISCIE *)
            30
                2)
                         DO BEGIN
    16
            37
                2)
    17
                                FOR Y:=0 TO YSIZE (* CICLO RIGHE *)
            39
                2)
    18
                                DO BEGIN
               2)
    19
            46
                                      IM:=MINIM+STEPY*Y:
            53
59
    20
                2)
                                      WRITE(' ');
                2)
    21
                                      FOR X:=132*S TO X+131 (* CICLO COLONNE *)
            64
                2)
    22
                                      DO BEGIN
                2)
            72
    23
                                            RE:=MINRE+STEPX*X;
            79
                2)
                                            ZR:=RE:
    25
                2)
            81
                                            ZI := IM;
            83 2)
85 2)
    26
                                            FOR N:=1 TO MAXIT (* CICLO COLORI/CARATTERI *)
    27
                                            DO BEGIN
            92
                2)
    28
                                                   A := ZR * ZR;
            96
                2)
                                                   B:=ZI*ZI;
           100 2)
    30
                                                   IF(A+B)>4
    31
           103
                2)
                                                   THEN GOTO 99:
                2)
           109
    32
                                                   ZI := ZR * ZI * 2 + IM;
    33
                2)
           118
                                                   ZR:=A-B+RE
           121 2)
    34
                                               END:
    35
           132
                2)
                      99:
                                            WRITE(STR[N]:1)
                2)
                                         END:
    36
           143
    37
           151 2)
                                      WRITELN
    38
           151 2)
                                   END:
    39
           163 2)
                                IF S<STRP (* FINITO UNA STRISCIA, SE NE SEGUONO ALTRE... *)
    40
           164 2)
                                THEN WRITELN('1') (* ...INIZIA IN UNA NUOVA PAGINA *)
               2)
    41
           175
                             END
           175
               2)
                      END:
    42
                2)
    43
           184
    44
                   BEGIN
    45
                      STR:='ABCDEFGHIJKLMNOPQRSTUVWXYZ'; (* I COLORI/CARATTERI *)
                       (* STAMPA UN RETTANGOLO 3:2 "SPALMATO" SU 5 STRISCIE *)
    46
    47
            10 1)
                      MANDELBROT(-2,-1,1,1,5)
    48
            22 1) END.
                SYNTAX ERROR(S) DETECTED.
  ****
                              1 PROCEDURE(S) COMPILED.
            48 LINE(S) READ.
  ****
           209 P INSTRUCTIONS GENERATED, 0.00 SECONDS IN COMPILATION.
  ****
```

LIST OF PROCEDURES AND FUNCTIONS:

8

8

WRITELN

MANDELBROT

ZI ZR

XSIZE YSIZE

PROGRAM

13 14

OF IDENTIFIERS: 43, # OF OCCURENCES: 128, # OF PROCEDURES: 1.

23

29 28

17

32 32

32 33

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

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

**** 1060 BYTES OF CODE GENERATED, 0.00 SECONDS IN POST_PROCESSING.

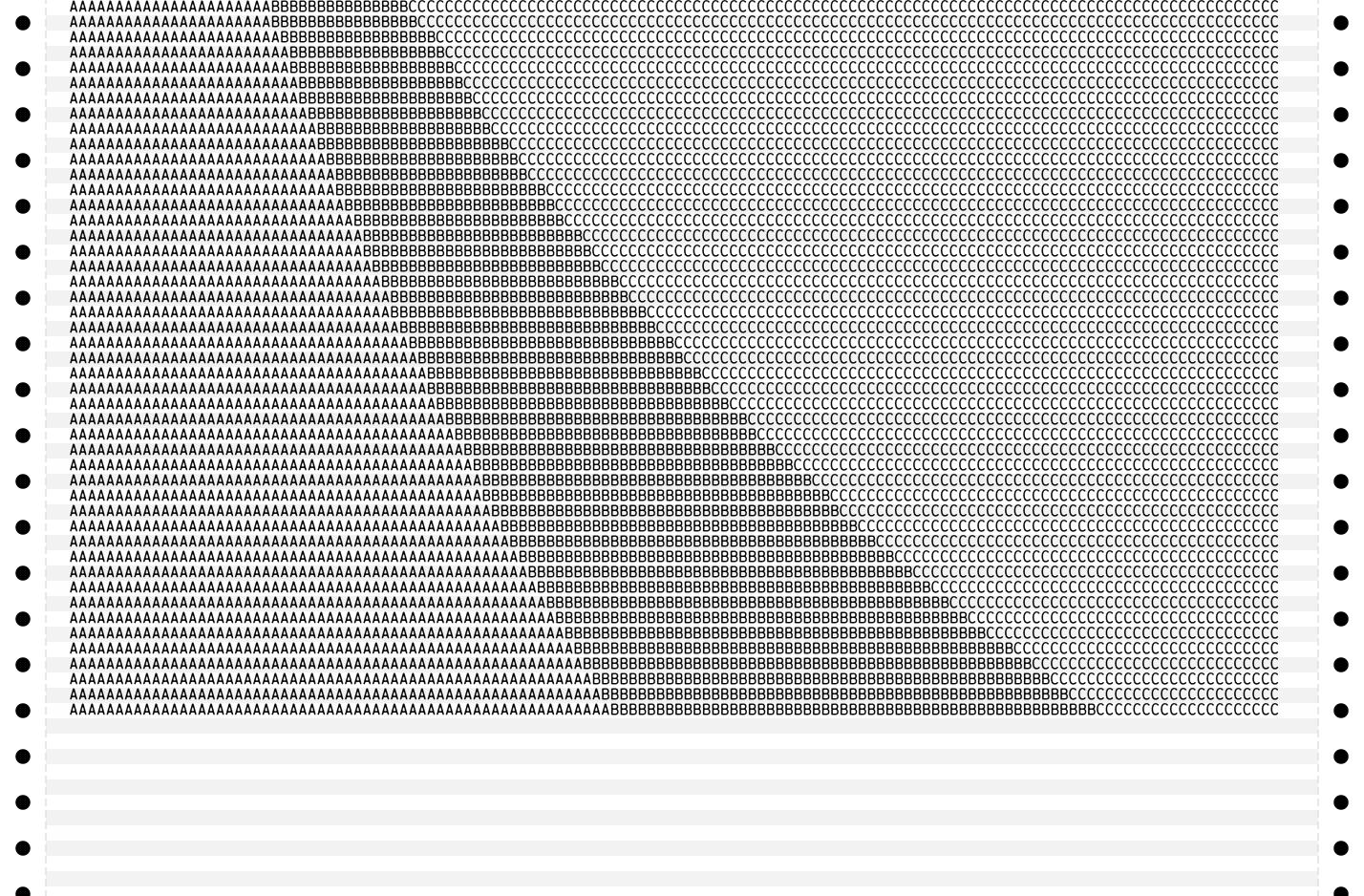
VS LOADER

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

IHCERRM * LR ADO6A IHOERRM * LR ADO6A IHNERRM * LR ADO6A ERRMON * LR ADO6A IFYVERRE* LR ADO IHOERRE * LR ADO9E IHNERRE * LR ADO9E IHCERRE * LR ADO9E \$PASCSP * LR ADOA8 \$WRADDR * SD AE7 \$IDLEN * SD AE8DO \$GETPNAM* SD AE960 \$ALIGN * SD AEAFO \$ERRMSG * SD AEB38 \$TRANSVA* SD AEE	06A 09E 720 E40 990

TOTAL LENGTH 5D20 ENTRY ADDRESS AC438

```
PMLKKKJIJJJJJKPKKJJJKKLNQPPLLLKKKLLMOMLKKKKKKKLQNMMNONOVSYURQOQSSQSQQT VX
AFFFFGGGGGHHGFHHHHHGGGHHHHHHIIJJIIIHHHHIIIJJJKMQSV
```

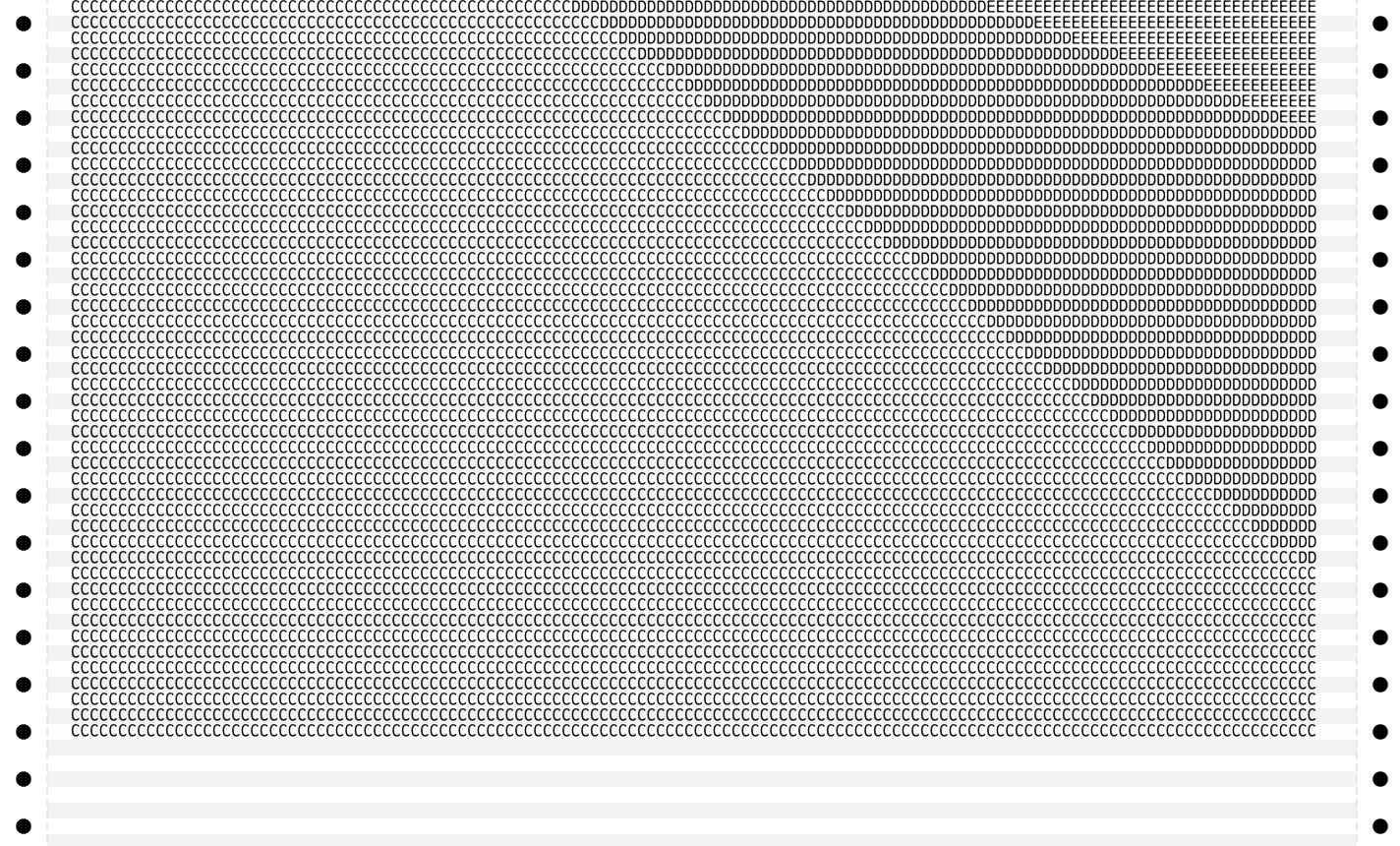


```
TOTAL CONTRIBUTION OF THE PROPRESS OF THE PROP
```

```
EEEEEFFFFFFFFFFFFGGGGHHHHHHILLLLNU YSSTT XSQRTNMMOP WSMLKKKKJJJJJJKKKKKLLMNNOPQSV ZTQS NMKKKKKKK NOORSMJJJJIIIIIIIIIIIIIIIIIIIII
EEEEEFFFFFFFFFGGGGGHHHHHHIIJJJKMMMNMNOPQT
                    SZPRYW XNMMMOPQLLKKKKKKKKLLMMMNOOQTW
                                       QTQLLLLLNQYV T MKKJJJJIIIIIIIIIIIIIIIII
EEEEFFFFFFFFFGGGGGGHHHHHHHIIJJJJKKLLMMNOQU
                       SQ000Q QNMLLLLKKKLLLMMMMNOPQSVW
                                        ONMMMMNP USQONMLKKKJJJJIIIIIIIIIIIIII
                     Z۷
                       V SQQSZTONMMMMMMNNMMMNNOQQQRTV
EEEEFFFFFFFGGGGGGGGHHHHHHIIIJJJJKKKKLNQRVTSU
                                       WUZUNNNNOPZ
                                             SMMLKKKKKJJJJJIIIIIIIIJJJJ
EEEFFFFFFFFGGGGGGGGGHHHHHHIIIIJJJKKKKKMNOPPQRTUZ
                                        UQP000PQRSUW
                          WTYONNNNQXTOOOOPQ VY
                                              R ZMLLKKKKKJJJJJJJJJJJJJJJJ
EEEFFFFFFFGGGGGGGGGHHHHHHIIIIIJJKKKKLMNOOPRTY
                           SQUOOPT TRRSQQRTVW
                                        SSTRQQQRSU
                                               SOMMMMN MLKKKKJJJJJJJJJ
EEFFFFFFFGGGGGGGGGGGGHHHHIIIIIIJJKKKLLMMNOQSW
                            URQQQSU
                                               YROOP
                                 UUVV
                                        YWX WTTYZWZ
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                                                     SPONMMMMM
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                                                      ZZ YTP00
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                                                        WU
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KJJJJIIIIIIIIIIIJJJKKKKKKLMMNOPQR Y
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POLLLKKKKKKKKKMQNLLLLLLMMMNOPTU
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MNRVPOROMMMMMNORUPONNNMNNOOOOQRSW
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LNOQU USQQXRQQS ZTSRS TRQQQRSU
LPVSU X W WVUUY ZW XTTVTST Y
MNOOTTXY
           XVUWX
MMOPQRVW
            ZY
NPYTSTUY
OQRT
SSTUWZ
XW
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XW SSTUWZ OQRT NPYTSTUY MMOPQRVW

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LPVSU X W WVUUY
       ZW XTTVTST Y
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                      V SQQSZTONMMMMMMMMMMMNNOQQQRTV
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EEEEEFFFFFFFFFFGGGGGHHHHHHI I JJJKMMMNMNOPQT
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                                     QTQLLLLLNQYV T MKKJJJJIIIIIIIIIIIIIIIII
                   SZPRYW
EEEEEFFFFFFFFFFFGGGGHHHHHHILLLLNU YSSTT XSQRTNMMOP WSMLKKKKJJJJJJKKKKKLLMNNOPQSV ZTQS NMKKKKKKK NOORSMJJJJIIIIIIIIIIIIIIIIIIIIII
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                                     WSRPMLLLLMNV R ONNOOPPPPPPQRRSTUVW
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                                       TTW X
                     XUU VTPPPQV V U NMLKKKKKKLLLLMNPQRU
EEEEEEEEEFFFFFFFFFFFFGGGGGGGGHHIJLZQOQX W TTV
                      Ζ
                        TRSX
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EEEEEEEEFFFFFFFFFFFFGGGGGGGHHJKNXY
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                             ROOORT
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                             Ζ
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                      VV UUUX
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  WUUUUVW
   XWVVWY
    YXXX
     ZZZ
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ZZZ
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  WUUUUVW
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                             VUSSU
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```

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           X RMMLLLLLLMNNOPT
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                TTW X
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        YVTSQPPONNNONNT MLKKKKKKKKKKKKLMP Y Y
                TOORTV
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OQTPPQRTW
    ZTTY WXZ
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          ZVWP000QR W
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              VSRQQQ
           UTW
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              RNMLLKKJJJJJJJJJKLMPXQ OQXNMTLKKKKKKKLLMOS OLLKKJJJJKS
              XPONMMMLKKKJJJJJJKKKLM R UY U RNMLLLLLMMNPRTWPNMMOPPNNPQ
                   YXSPONN POONNNOOQ SRW T OO KK
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              Y TS
                      RORSSUY TOOMLKJIIH
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                   ZYSTROQT
                PMMMMMMT
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                RPONNNOPRU
                      YZSPPPY
                        KJJIH
               W U QPOOPQW
                      TRPONMN QNYOLH
                RQQS
                       XNLLLLMNPOMIG
                 TTT
                      V VMLKKJJJIIIHHG
                      WTQOMMKKJJIIIHHHGG
                      TPONMLKKJIIHHHGGG
                      SSZS OQVJIHHHGGGF
                      XY VR NKIHHHGGGGF
                      U MKJIHHGGGGGF
```

WSQPRUNLKIIHHHGGGGGF QMLLKJIIIHHGGGGGGG

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VR PNLKKJJJIIIHHGGGGGGG
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       VURPONMMLKKKJJJIIIHHHGGGGGG
          RQTOMLLKKKJJIIIHHHHGGGGG
              NMLLLLKJJI IHHHHHGGGG
             TPONNNP UJIIIHHHHHHGG
            XTRQT XYUNKJIIIHHHHHHH
                       KJIIIHHHHHH
                     XNKJJJIIIHHHH
                   X QLKKJJJIIIIII
                  SQONLLKKKJJJIIII
                 Y SNMMLLLLKKJJJ
                     ONNNNOYYOQLKK
                   WSQQQQRTX WNM
                    VTTW
                                PO
                    ZZ
                               VUV
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                          SQOOLKKJ
                            Z MKJJ
                              MLKJ
                            SNMLKK
                           SPONMLK
                          WTSR ZPM
                                XS
                               XRR
                           SQQ OML
                          ZUWMLKKJ
                            OMLKKJ
                          SPNMLLKJ
                            TONMNS
                             RU
                             Y NK
S J
                        YPNNMPNKIH
                       UPNMLKJIIHH
                        QOOUJIIHHG
                        W VJIHHGG
                         SJIHHGGG
                    RONMLKIIHHGGGG
                    TR KJIIHHGGGGG
                     QKJIHHHGGGGGF
                 ROMLJIIHHHGGGGGGF
                  MJJIIHHHGGGGGGFF
              UOLKJIIHHHHHGGGGGGFF
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           OLKJJJIIIHHHHHGGGGGGGFF
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    XPONMLKKKJJIIIIHHHHHGGGGGGGFFF
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           OLKJJJIIIHHHHHGGGGGGGFF
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```

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                                                    YPNNMPNKIH
                                                       Y S J
                                                         Y NK
                                                         R U
                                                        TONMNS
                                                      SPNMLLKJ
                                                        OMLKKJ
                                                      ZUWMLKKJ
                                                       SQQ OML
                                                           XRR
                                                            XS
P
                                                      WTSR ZPM
                                                      SPONMLK
                                                        SNMLKK
                                                          MLKJ
                                                        Z MKJJ
                                                      SQOOLKKJ
                                                      ZPNMMLKJ
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                                                         X
                                                           VUV
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                                                VTTW
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                                              X QLKKJJJIIIIII
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                                            XY VR NKIHHHGGGGF
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                                             V VMLKKJJJIIIHHG
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                                              YZSPPPY KJJIH
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X
Y TS
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RQRSSUY TQOMLKJIIH
            PMMMMMMT
                                     UVY
            MLLLLLLMMOPQRX
                               ZYSTRQQT
TROPPOP NLLKKKKKKKKLMMNOQT YXSPONN POONNNOOQ SRW T OO KK
  XPONMMMLKKKJJJJJJKKKLM R UY U RNMLLLLLLMMNPRTWPNMMOPPNNPQ
```

```
RNMLLKKJJJJJJJJJJKLMPXQ OQXNMTLKKKKKKKLLMOS
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        UTW
        VSRQQQ
          WUV NKJJIIIIIIIIIIIIIIIIIIIIIIIIIIIIJJJKKLMNPRWTOJIHHHHHGG
           STXKJIIIIIHHHHHHHHHHHHHHHHHIIIIIIIIIKTP
        ZVWP000QR W
      ZWW
                 WNK I I HHGGGGF
           NLKJIIIHHHHHHHHHHHHHHHHHHHHHHHHIIIIJKMNXXPNLIIHGGGGFF
       TRTZ
        ONMMMNOPRTW
    ZXWVUVUTT VRRS
      VPOOPT
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    XVUTSRQQPP000PQ0NNMMNOR SORLKKKKKKKLN PQ Q NTRKIHHHHHHHHHHGGGGGGGGGGGGGGGGGGGGGHHHHHHIJJLMSPQ PIGGFFF
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   OOTPPORTW
   MMMNOP
   KLMMNOPUUY
    KLLNNOPQ Y
  KLM R TT Z W
  JPYQTQQS RQQTZ
IIIJJKMPMMMMNOPRV
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LINE	# R	ANGE	RUN CNT	CONSTRUCT	PAGE	1
10	-	42	1	PROCEDURE: 1	MANDELBROT	
16	-	42	5	FOR STMT		
18	-	38	1205	FOR STM	•	
22	_	36	159060	FOR S	TMT	
27	-	34	1748261		STMT	
31	_	31	115291	• •	HEN CLAUSE	
35	-	35	159060		ELLED STMT	
40	-	41	4	THEN CLA		
45	-	48	1	PROCEDURE:	\$MAINBLK	

lacktriangle

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		MM		AAAAAA NI	N NN	DDDDDDDDD	##	## PI	PPPPPPPPPPPPPPPPPPPPPPPPPPPPPPPPPPPPPPP	AAAAAA		SSSSSSS	
		MMM MMMM M	MMM AAAAA 1MMM AA	INN AAAAAAA INNN AA		DDDDDDDDD DD			PPPPPPPPPPPPPPPPPPPPPPPPPPPPPPPPPPPPPP	AAAAAAAAAAAAAA	AAA SS AA SS	SSSSSSS SS	
		MM MM MM		AA NN NI		DD			PP A			22	
			1M AA	AA NN NI		DD		# PP	PP AA		SSS		
	MM	1 MM MM	4 AAAAAAA	AAA NN NI	N NN DD	DD	## ##	PPPPPPI	PPPPP AAA	AAAAAAAA	SSSSSSS		
	MM	MM	AAAAAAAAA			DD	## ##	PPPPPPP		AAAAAAA	SSSSSSS		
	MM				N NN DD		## ##	PP	AA	AA	SS		
	MM		AA AA		NNN DD		########	PP	AA	AA	SS SS		
	MM MM	MM AA			NN DD N DDDDDDDDDD		####### ## F	PP P	AA AA	AA SSSSS	2222222 2222222		
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		111111 11	JJ		33 33333333333333	11 1111111	111			AA AA	AA AA		
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****A	END		MAND#PAS		ROC			1 10 JUN 20	PRINTER1	SYS TK4-	JOB 431	END A**	
****A	END		MAND#PAS		ROO			10 JUN 20	PRINTER1	SYS TK4-	JOB 431	END A**	
*****	END		MAND#PAS		ROC			1 10 JUN 20	PRINTER1	SYS TK4-	JOB 431	END A**	
****A	END	JOB 431	MAND#PAS		ROC	M	2.22.28 PM	1 10 JUN 20	PRINTER1	SYS TK4-	JOB 431	END A**	* *