```
                 PPPPPPPPPPP   RRRRRRRRRRR    IIIIIIIIII   MM        MM   CCCCCCCCCC   000000000000  BBBBBBBBBBB        11
                PPPPPPPPPPPP  RRRRRRRRRRRR   IIIIIIIIII   MMM      MMM  CCCCCCCCCCCC  000000000000  BBBBBBBBBBBB      111
               PP        PP  RR        RR       II       MMMM    MMMM  CC        CC  00        00  BB        BB     1111
              PP        PP  RR        RR       II       MM MM  MM MM  CC            00        00  BB        BB       11
             PP        PP  RR        RR       II       MM  MMMM  MM  CC            00        00  BB       BB        11
            PPPPPPPPPPPP  RRRRRRRRRRRR       II       MM   MM   MM  CC            00        00  BBBBBBBBBB         11
           PPPPPPPPPPP   RRRRRRRRRRR        II       MM       MM   CC            00        00  BBBBBBBBBB         11
          PP            RR    RR           II       MM        MM  CC            00        00  BB       BB        11
         PP            RR      RR         II       MM        MM  CC            00        00  BB        BB       11
        PP            RR        RR       II       MM        MM  CC        CC  00        00  BB        BB       11
       PP            RR        RR    IIIIIIIIII   MM        MM  CCCCCCCCCCCC  000000000000  BBBBBBBBBBBB   1111111111
      PP            RR        RR   IIIIIIIIII   MM        MM   CCCCCCCCCC   000000000000  BBBBBBBBBBB    1111111111



                    JJJJJJJJJJ       11                                                               EEEEEEEEEEEE
                    JJJJJJJJJJ      111                                                               EEEEEEEEEEEE
                        JJ         1111                                                               EE
                        JJ           11                                                               EE
                        JJ           11                                                               EE
                        JJ           11                                                               EEEEEEEE
                        JJ           11                                                               EEEEEEEE
                        JJ           11                                                               EE
                  JJ    JJ           11                                                               EE
                  JJ    JJ           11                                                               EE
                  JJJJJJJJ       1111111111                                                           EEEEEEEEEEEE
                   JJJJJJ        1111111111                                                           EEEEEEEEEEEE


****E  START  JOB    1  PRIMCOB1  Eratosthenes Sieve    ROOM       10.21.00 AM 18 MAY 26  PRINTER4  SYS PI5B  JOB    1  START  E****
****E  START  JOB    1  PRIMCOB1  Eratosthenes Sieve    ROOM       10.21.00 AM 18 MAY 26  PRINTER4  SYS PI5B  JOB    1  START  E****
****E  START  JOB    1  PRIMCOB1  Eratosthenes Sieve    ROOM       10.21.00 AM 18 MAY 26  PRINTER4  SYS PI5B  JOB    1  START  E****
****E  START  JOB    1  PRIMCOB1  Eratosthenes Sieve    ROOM       10.21.00 AM 18 MAY 26  PRINTER4  SYS PI5B  JOB    1  START  E****
```

J E S 2 J O B L O G

```
10.21.00 JOB    1  $HASP373 PRIMCOB1 STARTED - INIT  1 - CLASS A - SYS PI5B
10.21.00 JOB    1  IEF403I PRIMCOB1 - STARTED - TIME=10.21.00
10.21.00 JOB    1  IEFACTRT - Stepname  Procstep  Program   Retcode
10.21.00 JOB    1  PRIMCOB1   PRIMES    COB       IKFCBL00  RC= 0000
10.21.00 JOB    1  PRIMCOB1   PRIMES    GO        LOADER    RC= 0000
10.21.00 JOB    1  IEF404I PRIMCOB1 - ENDED - TIME=10.21.00
10.21.00 JOB    1  $HASP395 PRIMCOB1 ENDED

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

 18 MAY 26 JOB EXECUTION DATE

       168 CARDS READ

       299 SYSOUT PRINT RECORDS

         0 SYSOUT PUNCH RECORDS

      0.00 MINUTES EXECUTION TIME
```

```
 1      //PRIMCOB1 JOB (COBOL),                                          JOB    1
        //             'Eratosthenes Sieve',
        //             CLASS=A,
        //             MSGCLASS=E,
        //             REGION=8M,TIME=1440,
        //             MSGLEVEL=(1,1),
        //            USER=SCOTT,PASSWORD=        GENERATED BY IKJEFF10
        ******************************************************************
        ***
        *** Name: SYS2.JCLLIB(PRIMCOB1)
        ***
        *** Desc: Sieve of Eratosthenes programmed in COBOL.
        ***       All prime numbers up to the value entered via
        ***       //GO.SYSIN DD are computed. Due to a COBOL
        ***       implementation limitation a maximum limit
        ***       of 32767 can be entered.
        ***
        ******************************************************************
 2      //PRIMES   EXEC COBUCG,
        //         PARM.COB='FLAGW,LOAD,SUPMAP,SIZE=2048K,BUF=1024K'
 3      XXCOBUCG PROC SOUT='*'                                          00000100
 4      XXCOB EXEC PGM=IKFCBL00,                                        00000200
        XX         PARM='LOAD,SIZE=2048K,BUF=1024K'                     00000300
 5      XXSYSPRINT DD SYSOUT=&SOUT                                      00000400
 6      XXSYSUT1 DD UNIT=SYSDA,SPACE=(460,(700,100))                    00000500
 7      XXSYSUT2 DD UNIT=SYSDA,SPACE=(460,(700,100))                    00000600
 8      XXSYSUT3 DD UNIT=SYSDA,SPACE=(460,(700,100))                    00000700
 9      XXSYSUT4 DD UNIT=SYSDA,SPACE=(460,(700,100))                    00000800
10      XXSYSLIN DD DSNAME=&LOADSET,DISP=(MOD,PASS),                    00000900
        XX             UNIT=SYSDA,SPACE=(80,(500,100))                  00001000
11      //COB.SYSPUNCH DD DUMMY
12      //COB.SYSIN    DD *
13      //COB.SYSLIB   DD DSNAME=SYS1.COBLIB,DISP=SHR
14      XXGO EXEC PGM=LOADER,PARM='MAP,LET',COND=(5,LT,COB)             00001100
15      XXSYSLIN DD DSNAME=*.COB.SYSLIN,DISP=(OLD,DELETE)               00001200
16      XXSYSLOUT DD SYSOUT=&SOUT                                       00001300
17      XXSYSLIB DD DSNAME=SYS1.COBLIB,DISP=SHR                         00001400
18      //GO.SYSOUT   DD SYSOUT=*,DCB=(RECFM=FBA,LRECL=161,BLKSIZE=16100)
19      //GO.SYSIN    DD *
```

```
 STMT NO. MESSAGE
-
    5      IEF653I SUBSTITUTION JCL - SYSOUT=*
   16      IEF653I SUBSTITUTION JCL - SYSOUT=*
IEF236I ALLOC. FOR PRIMCOB1 COB PRIMES
IEF237I JES2 ALLOCATED TO SYSPRINT
IEF237I 292  ALLOCATED TO SYSUT1
IEF237I 293  ALLOCATED TO SYSUT2
IEF237I 290  ALLOCATED TO SYSUT3
IEF237I 291  ALLOCATED TO SYSUT4
IEF237I 293  ALLOCATED TO SYSLIN
IEF237I DMY  ALLOCATED TO SYSPUNCH
IEF237I JES2 ALLOCATED TO SYSIN
IEF237I 390  ALLOCATED TO SYSLIB
IEF142I PRIMCOB1 COB PRIMES - STEP WAS EXECUTED - COND CODE 0000
IEF285I   JES2.JOB00001.S00103                    SYSOUT
IEF285I   SYS26138.T102100.RA000.PRIMCOB1.R0000001     DELETED       *--------6
IEF285I   VOL SER NOS= WORK03.
IEF285I   SYS26138.T102100.RA000.PRIMCOB1.R0000002     DELETED       *--------6
IEF285I   VOL SER NOS= WORK04.
IEF285I   SYS26138.T102100.RA000.PRIMCOB1.R0000003     DELETED       *--------9
IEF285I   VOL SER NOS= WORK01.
IEF285I   SYS26138.T102100.RA000.PRIMCOB1.R0000004     DELETED       *--------3
IEF285I   VOL SER NOS= WORK02.
IEF285I   SYS26138.T102100.RA000.PRIMCOB1.LOADSET      PASSED        *-------71
IEF285I   VOL SER NOS= WORK04.
IEF285I   JES2.JOB00001.SI0101                    SYSIN
IEF285I   SYS1.COBLIB                             KEPT          *--------0
IEF285I   VOL SER NOS= TK5RES.
IEF373I STEP /COB      / START 26138.1021
IEF374I STEP /COB      / STOP  26138.1021 CPU    0MIN 00.09SEC SRB    0MIN 00.02SEC VIRT  2076K SYS   216K
*-------------------------------------------------------------------------------------------------------------------*
*     1. Jobstep of job: PRIMCOB1    Stepname: COB          Program name: IKFCBL00   Executed on 18.05.26 from 10.21.00 to 10.21.00 *
*         elapsed time  00:00:00,27                    CPU-Identifier:  PI5B           Page-in:      0                  *
*             CPU time  00:00:00,11              Virtual Storage used:   2076K         Page-out:     0                  *
*           corr. CPU:  00:00:00,11   CPU time has been corrected by  1 / 1,0  multiplier                             *
*                                                                                                                     *
*     I/O Operation                                                                                                   *
*     Number of records read via DD * or DD DATA:    140                                                              *
*     DMY.......0 292.......6 293.......6 290.......9 291.......3 293......71 DMY.......0 DMY.......0 390.......0     *
*                                                                                                                     *
*                                        Charge for step (w/o SYSOUT):          0,18                              *
*-------------------------------------------------------------------------------------------------------------------*
IEF236I ALLOC. FOR PRIMCOB1 GO PRIMES
IEF237I 293  ALLOCATED TO SYSLIN
IEF237I JES2 ALLOCATED TO SYSLOUT
IEF237I 390  ALLOCATED TO SYSLIB
IEF237I JES2 ALLOCATED TO SYSOUT
IEF237I JES2 ALLOCATED TO SYSIN
IEF142I PRIMCOB1 GO PRIMES - STEP WAS EXECUTED - COND CODE 0000
IEF285I   SYS26138.T102100.RA000.PRIMCOB1.LOADSET      DELETED       *-------72
IEF285I   VOL SER NOS= WORK04.
IEF285I   JES2.JOB00001.S00104                    SYSOUT
IEF285I   SYS1.COBLIB                             KEPT          *-------29
IEF285I   VOL SER NOS= TK5RES.
IEF285I   JES2.JOB00001.S00105                    SYSOUT
IEF285I   JES2.JOB00001.SI0102                    SYSIN
IEF373I STEP /GO       / START 26138.1021
IEF374I STEP /GO       / STOP  26138.1021 CPU    0MIN 00.03SEC SRB    0MIN 00.01SEC VIRT   332K SYS   204K
*-------------------------------------------------------------------------------------------------------------------*
*     2. Jobstep of job: PRIMCOB1    Stepname: GO           Program name: LOADER     Executed on 18.05.26 from 10.21.00 to 10.21.00 *
*         elapsed time  00:00:00,07                    CPU-Identifier:  PI5B           Page-in:      0                  *
```

```
*     Number of records read via DD * or DD DATA:      1                                                                                          *
*     293......72 DMY.......0 390......29 DMY.......0 DMY.......0                                                                                  *
*                                                                                                                                                  *
*                                           Charge for step (w/o SYSOUT):          0,06                                                           *
************************************************************************************************************************************************
IEF375I  JOB /PRIMCOB1/ START 26138.1021
IEF376I  JOB /PRIMCOB1/ STOP  26138.1021 CPU    0MIN 00.12SEC SRB    0MIN 00.03SEC
```

```
    10 * ////////////////////////////////////////////////////////////          PRIME
    20 * // Name: Peter M. Maurer                                              PRIME
    30 * // Program: Sieve of Eratosthenes                                     PRIME
    40 * // Due: Never                                                         PRIME
    50 * // Language: COBOL                                                    PRIME
    60 * //                                                                    PRIME
    70 * // Changes:                                                           PRIME
    80 * // - Juergen Winkelmann, 2014/10/25, o adaption to IBM OS COBOL       PRIME
    90 * //                                   o read limit from SYSIN          PRIME
   100 * //                                   o n**2 (sqrt) shortcut           PRIME
   110 * //                                   o skip even numbers              PRIME
   120 * //                                   o compact output format          PRIME
   130 * //                                   o 32767 prime flags              PRIME
   140 * ////////////////////////////////////////////////////////////          PRIME
   150 ***                                                                     PRIME
   160 ***                                                                     PRIME
   170 ***                                                                     PRIME
   180  IDENTIFICATION DIVISION.                                               PRIME
   190  PROGRAM-ID.  'PRIMES'.                                                 PRIME
   200 ***                                                                     PRIME
   210 ***                                                                     PRIME
   220 ***                                                                     PRIME
   230  ENVIRONMENT DIVISION.                                                  PRIME
   240 **                                                                      PRIME
   250 **                                                                      PRIME
   260  CONFIGURATION SECTION.                                                 PRIME
   270  SOURCE-COMPUTER.  IBM-360.                                             PRIME
   280  OBJECT-COMPUTER.  IBM-360.                                             PRIME
   290 **                                                                      PRIME
   300 **                                                                      PRIME
   310  INPUT-OUTPUT SECTION.                                                  PRIME
   320  FILE-CONTROL.                                                          PRIME
   330      SELECT PRIMES-SYSIN                                                PRIME
   340         ASSIGN TO UT-S-SYSIN.                                           PRIME
   350 ***                                                                     PRIME
   360 ***                                                                     PRIME
   370 ***                                                                     PRIME
   380  DATA DIVISION.                                                         PRIME
   390 **                                                                      PRIME
   400 **                                                                      PRIME
   410  FILE SECTION.                                                          PRIME
   420  FD  PRIMES-SYSIN                                                       PRIME
   430      RECORDING MODE IS F                                                PRIME
   440      RECORD CONTAINS 80 CHARACTERS                                      PRIME
   450      BLOCK  CONTAINS  1 RECORDS                                         PRIME
   460      LABEL RECORDS ARE OMITTED                                          PRIME
   470      DATA RECORD IS PRIMES-SYSIN-RECORD.                                PRIME
   480  01  PRIMES-SYSIN-RECORD.                                               PRIME
   490   02 PRIMES-SYSIN-NUMBER PIC 99999999 OCCURS 10.                        PRIME
   500 **                                                                      PRIME
   510 **                                                                      PRIME
   520  WORKING-STORAGE SECTION.                                               PRIME
   530      77 I PIC 99999999 COMP VALUE 1.                                    PRIME
   540      77 J PIC 99999999 COMP.                                            PRIME
```

```
00055     550      77 K PIC 99999999 COMP VALUE 1.                          PRIME
00056     560      77 N PIC 99999999 COMP.                                  PRIME
00057     570      77 N-2 PIC 99999999 COMP.                                PRIME
00058     580      77 SQRTN PIC 99999999 COMP.                              PRIME
00059     590      77 PRODUCT PIC 99999999 COMP.                            PRIME
00060     600      01 BLANK-LINE PIC X(160).                                PRIME
00061     610      01 OUT-INTEGER.                                          PRIME
00062     620       02 SHOWIT PIC ZZZZZZZZ OCCURS 20.                       PRIME
00063     630      01 OUT REDEFINES OUT-INTEGER.                            PRIME
00064     640       02 OUT-LINE PIC X(160).                                 PRIME
00065     650      01 PRIME-FLAGS.                                          PRIME
00066     660       02 ISPRIME PIC 9 OCCURS 32767.                          PRIME
00067     670 ***                                                           PRIME
00068     680 ***                                                           PRIME
00069     690 ***                                                           PRIME
00070     700  PROCEDURE DIVISION.                                         PRIME
00071     710 **                                                           PRIME
00072     720 **                                                           PRIME
00073     730  MAIN-PART.                                                  PRIME
00074     740      OPEN INPUT PRIMES-SYSIN.                                PRIME
00075     750      READ PRIMES-SYSIN AT END DISPLAY '** EOF on SYSIN **'.  PRIME
00076     760      MOVE PRIMES-SYSIN-NUMBER (1) TO N.                      PRIME
00077     770      CLOSE PRIMES-SYSIN.                                     PRIME
00078     780      SUBTRACT 2 FROM N GIVING N-2.                           PRIME
00079     790 *                                                            PRIME
00080     800      PERFORM NEXT-SQUARE UNTIL SQRTN GREATER N.              PRIME
00081     810      MOVE I TO SQRTN.                                        PRIME
00082     820 *                                                            PRIME
00083     830      MOVE 3 TO I.                                            PRIME
00084     840      PERFORM INIT-1 UNTIL I GREATER N.                       PRIME
00085     850 *                                                            PRIME
00086     860      MOVE 3 TO I.                                            PRIME
00087     870      PERFORM CHECK-NUMBER UNTIL I GREATER SQRTN OR EQUAL SQRTN.  PRIME
00088     880 *                                                            PRIME
00089     890      MOVE 3 TO I.                                            PRIME
00090     900      MOVE 2 TO J.                                            PRIME
00091     910      MOVE J TO SHOWIT (K).                                   PRIME
00092     920      PERFORM PRINT UNTIL I GREATER N.                        PRIME
00093     930 *                                                            PRIME
00094     940      MOVE K TO SHOWIT (1).                                   PRIME
00095     950      MOVE N TO SHOWIT (2).                                   PRIME
00096     960      DISPLAY ' '.                                            PRIME
00097     970      DISPLAY SHOWIT (1), ' primes up to ', SHOWIT (2), ' found.'.  PRIME
00098     980      STOP RUN.                                               PRIME
00099     990 **                                                           PRIME
00100    1000 **                                                           PRIME
00101    1010  INIT-1.                                                    PRIME
00102    1020      MOVE 1 TO ISPRIME (I).                                  PRIME
00103    1030      ADD 2 TO I.                                             PRIME
00104    1040 **                                                          PRIME
00105    1050 **                                                          PRIME
00106    1060  CHECK-NUMBER.                                              PRIME
00107    1070      PERFORM ADVANCE UNTIL I GREATER THAN SQRTN OR EQUAL TO SQRT  PRIME
00108    1080 -     N OR ISPRIME (I) EQUAL TO 1.                          PRIME
00109    1090      IF ISPRIME (I) EQUAL TO 1                               PRIME
00110    1100          ADD I I GIVING J                                    PRIME
00111    1110          MULTIPLY I BY I GIVING PRODUCT                      PRIME
```

```
00112    1120           PERFORM CROSS-OUT UNTIL PRODUCT GREATER THAN N.          PRIME
00113    1130       ADD 2 TO I.                                                  PRIME
00114    1140 **                                                                 PRIME
00115    1150 **                                                                 PRIME
00116    1160  ADVANCE.                                                          PRIME
00117    1170       ADD 2 TO I.                                                  PRIME
00118    1180 **                                                                 PRIME
00119    1190 **                                                                 PRIME
00120    1200  CROSS-OUT.                                                        PRIME
00121    1210       MOVE 0 TO ISPRIME (PRODUCT).                                 PRIME
00122    1220       ADD J TO PRODUCT.                                            PRIME
00123    1230 **                                                                 PRIME
00124    1240 **                                                                 PRIME
00125    1250  NEXT-SQUARE.                                                      PRIME
00126    1260       ADD 1 TO I.                                                  PRIME
00127    1270       MULTIPLY I BY I GIVING SQRTN.                                PRIME
00128    1280 **                                                                 PRIME
00129    1290 **                                                                 PRIME
00130    1300  PRINT.                                                            PRIME
00131    1310       IF ISPRIME (I) EQUAL TO 1                                    PRIME
00132    1320           MOVE I TO SHOWIT (J)                                     PRIME
00133    1330           ADD 1 TO K                                               PRIME
00134    1340           ADD 1 TO J                                               PRIME
00135    1350           IF J GREATER 20                                          PRIME
00136    1360               DISPLAY OUT-LINE                                     PRIME
00137    1370               MOVE BLANK-LINE TO OUT-LINE                          PRIME
00138    1380               MOVE 1 TO J.                                         PRIME
00139    1390       IF I GREATER N-2 AND J NOT EQUAL 1 DISPLAY OUT-LINE.         PRIME
00140    1400       ADD 2 TO I.                                                  PRIME
```

```
*STATISTICS*     SOURCE RECORDS =   140     DATA DIVISION STATEMENTS =    17     PROCEDURE DIVISION STATEMENTS =    45
*OPTIONS IN EFFECT*     SIZE = 2097152  BUF = 1048576  LINECNT = 57  SPACE1, FLAGW,   SEQ,   SOURCE
*OPTIONS IN EFFECT*     NODMAP, NOPMAP, NOCLIST,   SUPMAP, NOXREF,   LOAD, NODECK, APOST, NOTRUNC, NOLIB, NOVERB
*OPTIONS IN EFFECT*       ZWB
```

VS LOADER

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


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

 PRIMES      SD   AC010     ILBOSTP0*   SD   B4D40     ILBOSTP1*   LR   B4D56     ILBODSP0*   SD   B4D78     ILBOBID0*   SD   B5478
 ILBOBID2*   LR   B5484     ILBOBID1*   LR   B5498     ILBOIDB0*   SD   B54E0     ILBOIDB1*   LR   B54FC

 TOTAL LENGTH      9538
 ENTRY ADDRESS    AC010
```

```
      2     3     5     7    11    13    17    19    23    29    31    37    41    43    47    53
     73    79    83    89    97   101   103   107   109   113   127   131   137   139   149   151
    179   181   191   193   197   199   211   223   227   229   233   239   241   251   257   263
    283   293   307   311   313   317   331   337   347   349   353   359   367   373   379   383
    419   421   431   433   439   443   449   457   461   463   467   479   487   491   499   503
    547   557   563   569   571   577   587   593   599   601   607   613   617   619   631   641
    661   673   677   683   691   701   709   719   727   733   739   743   751   757   761   769
    811   821   823   827   829   839   853   857   859   863   877   881   883   887   907   911
    947   953   967   971   977   983   991   997  1009  1013  1019  1021  1031  1033  1039  1049
   1087  1091  1093  1097  1103  1109  1117  1123  1129  1151  1153  1163  1171  1181  1187  1193
   1229  1231  1237  1249  1259  1277  1279  1283  1289  1291  1297  1301  1303  1307  1319  1321
   1381  1399  1409  1423  1427  1429  1433  1439  1447  1451  1453  1459  1471  1481  1483  1487
   1523  1531  1543  1549  1553  1559  1567  1571  1579  1583  1597  1601  1607  1609  1613  1619
   1663  1667  1669  1693  1697  1699  1709  1721  1723  1733  1741  1747  1753  1759  1777  1783
   1823  1831  1847  1861  1867  1871  1873  1877  1879  1889  1901  1907  1913  1931  1933  1949
   1993  1997  1999

  303 primes up to     2000 found.
```

```
                 PPPPPPPPPPP   RRRRRRRRRRR    IIIIIIIIII   MM         MM   CCCCCCCCCC   000000000000  BBBBBBBBBBB        11
                PPPPPPPPPPPP  RRRRRRRRRRRR   IIIIIIIIII   MMM       MMM  CCCCCCCCCCCC  000000000000  BBBBBBBBBBBB      111
               PP        PP  RR         RR       II       MMMM    MMMM  CC        CC  00         00  BB         BB    1111
              PP        PP  RR         RR       II       MM MM  MM MM  CC              00         00  BB         BB      11
             PP        PP  RR         RR       II       MM  MMMM  MM  CC              00         00  BB         BB      11
            PPPPPPPPPPPP  RRRRRRRRRRRR        II       MM   MM   MM  CC              00         00  BBBBBBBBBB        11
           PPPPPPPPPPP   RRRRRRRRRRR         II       MM        MM  CC              00         00  BBBBBBBBBB        11
          PP            RR    RR            II       MM        MM  CC              00         00  BB        BB      11
         PP            RR      RR          II       MM        MM  CC              00         00  BB        BB      11
        PP            RR        RR        II       MM        MM  CC        CC  00         00  BB        BB      11
       PP            RR         RR   IIIIIIIIII   MM        MM  CCCCCCCCCCCC  000000000000  BBBBBBBBBBBB   1111111111
      PP            RR          RR  IIIIIIIIII   MM        MM   CCCCCCCCCC   000000000000  BBBBBBBBBBB   1111111111


                     JJJJJJJJJ       11                                                                   EEEEEEEEEEEE
                     JJJJJJJJJ      111                                                                   EEEEEEEEEEEE
                         JJ        1111                                                                   EE
                         JJ          11                                                                   EE
                         JJ          11                                                                   EE
                         JJ          11                                                                   EEEEEEEE
                         JJ          11                                                                   EEEEEEEE
                         JJ          11                                                                   EE
                   JJ    JJ          11                                                                   EE
                   JJ    JJ          11                                                                   EE
                   JJJJJJJJ      1111111111                                                               EEEEEEEEEEEE
                    JJJJJJ       1111111111                                                               EEEEEEEEEEEE


****E   END   JOB    1  PRIMCOB1  Eratosthenes Sieve    ROOM        10.21.00 AM 18 MAY 26  PRINTER4  SYS PI5B  JOB    1   END    E****
****E   END   JOB    1  PRIMCOB1  Eratosthenes Sieve    ROOM        10.21.00 AM 18 MAY 26  PRINTER4  SYS PI5B  JOB    1   END    E****
****E   END   JOB    1  PRIMCOB1  Eratosthenes Sieve    ROOM        10.21.00 AM 18 MAY 26  PRINTER4  SYS PI5B  JOB    1   END    E****
****E   END   JOB    1  PRIMCOB1  Eratosthenes Sieve    ROOM        10.21.00 AM 18 MAY 26  PRINTER4  SYS PI5B  JOB    1   END    E****
```