```
Command  . . . . . . . . . . . . :   CRTBNDRPG
   Issued by  . . . . . . . . . :     DC433E08
Program  . . . . . . . . . . . . :   COVIDRPG
   Library  . . . . . . . . . . :     DC433E08
Text 'description' . . . . . . . :   *SRCMBRTXT

Source Member  . . . . . . . . . :   COVIDRPG
Source File  . . . . . . . . . . :   LAB3
   Library  . . . . . . . . . . :     DC433E08
   CCSID  . . . . . . . . . . . :     37
Text 'description' . . . . . . . :   Lab 3 A RPG
Last Change  . . . . . . . . . . :   06/21/21  18:34:45

Generation severity level  . . . :   10
Default activation group . . . . :   *YES
Compiler options . . . . . . . . :   *XREF      *GEN       *NOSECLVL  *SHOWCPY
                                      *EXPDDS    *EXT       *NOSHOWSKP *NOSRCSTMT
                                      *DEBUGIO   *UNREF     *EVENTF
Debugging views  . . . . . . . . :   *SOURCE
Debug encryption key . . . . . . :   *NONE
Output . . . . . . . . . . . . . :   *PRINT
Optimization level . . . . . . . :   *NONE
Source listing indentation . . . :   *NONE
Type conversion options  . . . . :   *NONE
Sort sequence  . . . . . . . . . :   *HEX
Language identifier  . . . . . . :   *JOBRUN
Replace program  . . . . . . . . :   *YES
User profile . . . . . . . . . . :   *USER
Authority  . . . . . . . . . . . :   *LIBCRTAUT
Truncate numeric . . . . . . . . :   *YES
Fix numeric  . . . . . . . . . . :   *NONE
Target release . . . . . . . . . :   *CURRENT
Allow null values  . . . . . . . :   *NO
Define condition names . . . . . :   *NONE
Enable performance collection  . :   *PEP
Profiling data . . . . . . . . . :   *NOCOL
Licensed Internal Code options . :
Generate program interface . . . :   *NO
Include directory  . . . . . . . :
Preprocessor options . . . . . . :   *NONE
```

DC433E08 MD RAFI AL ARABI BHUI

```
Line  <-------------------- Source Specifications --------------------------><---- Comments ----> Do  Page  Change Src  Seq
Number ....1....+....2....+....3....+....4....+....5....+....6....+....7....+....8....+....9....+...10 Num  Line  Date   Id   Number

                     S o u r c e   L i s t i n g


  1   DCL-F COVIDDSP WORKSTN;                                                                              210621      000100
      *--------------------------------------------------------------------------------*
      *                              RPG name          External name                   *
      * File name. . . . . . . . . :  COVIDDSP          DC433E08/COVIDDSP               *
      * Record format(s) . . . . . :  RISKFACTOR        RISKFACTOR                      *
      *                               RISKASSMNT        RISKASSMNT                      *
      *--------------------------------------------------------------------------------*
  2   DCL-F COVIDINFO WORKSTN;                                                                             210621      000101
      *--------------------------------------------------------------------------------*
      *                              RPG name          External name                   *
      * File name. . . . . . . . . :  COVIDINFO         BCI433LIB/COVIDINFO             *
      * Record format(s) . . . . . :  CINFO             CINFO                           *
      *--------------------------------------------------------------------------------*
  3                                                                                                        210621      000102


  4=IRISKFACTOR                                                                                                     1000001
      *--------------------------------------------------------------------------------*                             1
      * RPG record format  . . . . :  RISKFACTOR                                        *                             1
      * External format  . . . . . :  RISKFACTOR : DC433E08/COVIDDSP                    *                             1
      *--------------------------------------------------------------------------------*                             1
  5=I                          *ISO-D   1    10  BIRTHDATE                                                          1000002
  6=I                          A       11    11  GENDER                                                            1000003
  7=I                          A       12    12  CVDISEASE                                                         1000004
  8=I                          A       13    13  DIABETES                                                          1000005
  9=I                          A       14    14  RSPDISEASE                                                        1000006
 10=I                          A       15    15  HBPRESSURE                                                        1000007
 11=IRISKASSMNT                                                                                                    2000001
      *--------------------------------------------------------------------------------*                             2
      * RPG record format  . . . . :  RISKASSMNT                                        *                             2
      * External format  . . . . . :  RISKASSMNT : DC433E08/COVIDDSP                    *                             2
      *--------------------------------------------------------------------------------*                             2
 12=I                          N    2    2  *IN01                        COHORT INFORMATION                        2000002
 13=I                          N    1    1  *IN03                        EXIT PROGRAM                              2000003
 14=ICINFO                                                                                                         3000001
      *--------------------------------------------------------------------------------*                             3
      * RPG record format  . . . . :  CINFO                                             *                             3
      * External format  . . . . . :  CINFO : BCI433LIB/COVIDINFO                       *                             3
      *--------------------------------------------------------------------------------*                             3


 15   EXSR CLEAR;                                                                                          210621      000103
 16   EXFMT RISKFACTOR;                                                                                    210621      000104
 17                                                                                                        210621      000105
 18   DOW NOT(*IN03);          //DOW *IN03 = *OFF //DOU *IN03                                       B01    210621      000106
 19                                                                                                        210621      000107
 20     IF GENDER = ' ';                                                                           B02    210621      000108
 21       *IN95 = *ON;                                                                             02     210621      000109
 22       EXFMT RISKFACTOR;                                                                        02     210621      000110
 23       *IN95 = *OFF;                                                                            02     210621      000111
 24       ITER;                                                                                    02     210621      000112
```

```
Line   <------------------- Source Specifications ---------------------------><---- Comments ----> Do  Page  Change Src  Seq
Number ....1....+....2....+....3....+....4....+....5....+....6....+....7....+....8....+....9....+...10 Num Line  Date   Id  Number
    25                                                                                                    210621     000113
    26      ELSEIF CVDISEASE = ' ';                                                             X02       210621     000114
    27        *IN96 = *ON;                                                                      02        210621     000115
    28        EXFMT RISKFACTOR;                                                                 02        210621     000116
    29        *IN96 = *OFF;                                                                     02        210621     000117
    30        ITER;                                                                             02        210621     000118
    31                                                                                                    210621     000119
    32      ELSEIF DIABETES = ' ';                                                              X02       210621     000120
    33        *IN97 = *ON;                                                                      02        210621     000121
    34        EXFMT RISKFACTOR;                                                                 02        210621     000122
    35        *IN97 = *OFF;                                                                     02        210621     000123
    36        ITER;                                                                             02        210621     000124
    37                                                                                                    210621     000125
    38      ELSEIF RSPDISEASE = ' ';                                                            X02       210621     000126
    39        *IN98 = *ON;                                                                      02        210621     000127
    40        EXFMT RISKFACTOR;                                                                 02        210621     000128
    41        *IN98 = *OFF;                                                                     02        210621     000129
    42        ITER;                                                                             02        210621     000130
    43                                                                                                    210621     000131
    44      ELSEIF HBPRESSURE = ' ';                                                            X02       210621     000132
    45        *IN99 = *ON;                                                                      02        210621     000133
    46        EXFMT RISKFACTOR;                                                                 02        210621     000134
    47        *IN99 = *OFF;                                                                     02        210621     000135
    48        ITER;                                                                             02        210621     000136
    49                                                                                                    210621     000137
    50      ELSE;                                                                               X02       210621     000138
    51        EXSR DETERMINERISK;                                                               02        210621     000139
    52        TOTALQ += 1;                                                                      02        210621     000140
    53        *IN60 = *ON;                                                                      02        210621     000141
    54        WRITE RISKFACTOR;                                                                 02        210621     000142
    55        EXFMT RISKASSMNT;                                                                 02        210621     000143
    56        *IN60 = *OFF;                                                                     02        210621     000148
    57                                                                                                    210621     000149
    58         //NEWLY ADDED TO SET THE BEHAVIOUR OF F1                                                   210621     000150
    59         IF *IN01;                                                                        B03       210621     000151
    60           EXFMT CINFO;                                                                   03        210621     000152
    61         ENDIF;                                                                           E03       210621     000153
    62      ENDIF;                                                                              E02       210621     000154
    63                                                                                                    210621     000155
    64      IF *IN03 = *OFF;                                                                    B02       210621     000156
    65        EXSR CLEAR;                                                                       02        210621     000157
    66        EXFMT RISKFACTOR;                                                                 02        210621     000158
    67      ENDIF;                                                                              E02       210621     000159
    68                                                                                                    210621     000160
    69    ENDDO;                                                                                E01       210621     000161
    70                                                                                                    210621     000162
    71    *INLR = *ON;                                                                                    210621     000163
    72    RETURN;                                                                                         210621     000164
    73                                                                                                    210621     000165
    74    BEGSR DETERMINERISK;                                                                            210621     000166
    75      AGE = %Diff(%Date():BirthDate:*Y); //%Date()means system date                                210621     000167
    76      EXSR AgeFactor;                                                                               210621     000168
    77      EXSR OtherFactors;                                                                            210621     000169
    78      EXSR CheckCohort;                                                                             210621     000170
    79                                                                                                    210621     000171
    80      COHORT = COHORT;                                                                             210621     000172
```

```
Line    <-------------------- Source Specifications --------------------------><---- Comments ----> Do  Page  Change Src Seq
Number ....1....+....2....+....3....+....4....+....5....+....6....+....7....+....8....+....9....+...10 Num Line  Date   Id  Number
    81     ENDSR;                                                                                              210621    000173
    82                                                                                                         210621    000174
    83     BEGSR CLEAR;                                                                                        210621    000175
    84       BIRTHDATE = %Date();                                                                              210621    000176
    85       CLEAR GENDER;                                                                                     210621    000177
    86       CLEAR CVDISEASE;                                                                                  210621    000178
    87       CLEAR DIABETES;                                                                                   210621    000179
    88       CLEAR RSPDISEASE;                                                                                 210621    000180
    89       CLEAR HBPRESSURE;                                                                                 210621    000181
    90     ENDSR;                                                                                              210621    000192
    91                                                                                                         210621    000193
    92     BEGSR AgeFactor;                                                                                    210621    000194
    93       SELECT;                                                                              B01          210621    000195
    94         WHEN AGE > 79;                                                                     X01          210621    000196
    95           FRATE = 14.8;                                                                     01          210621    000197
    96          WHEN AGE > 69;                                                                    X01          210621    000198
    97            FRATE = 8;                                                                       01          210621    000199
    98            WHEN AGE > 59;                                                                  X01          210621    000200
    99             FRATE = 3.6;                                                                    01          210621    000201
   100             WHEN AGE > 49;                                                                 X01          210621    000202
   101              FRATE = 1.3;                                                                   01          210621    000203
   102               WHEN AGE > 39;                                                               X01          210621    000204
   103                FRATE = .4;                                                                  01          210621    000205
   104                WHEN AGE > 29;                                                              X01          210621    000206
   105                 FRATE = .25;                                                                01          210621    000207
   106                 WHEN AGE > 19;                                                             X01          210621    000208
   107                  FRATE = .23;                                                               01          210621    000209
   108                  WHEN AGE > 9;                                                             X01          210621    000210
   109                   FRATE = .2;                                                               01          210621    000211
   110                   WHEN AGE > 0;                                                            X01          210621    000212
   111                    FRATE = .1;                                                              01          210621    000213
   112                                                                                                         210621    000214
   113      ENDSL;                                                                                E01          210621    000215
   114                                                                                                         210621    000216
   115     ENDSR;                                                                                              210621    000217
   116                                                                                                         210621    000218
   117     BEGSR OtherFactors;                                                                                 210621    000219
   118       SELECT;                                                                              B01          210621    000220
   119       WHEN CVDISEASE = 'Y';                                                                X01          210621    000221
   120         FRATE += .8;                                                                        01          210621    000222
   121       ENDSL;                                                                               E01          210621    000223
   122                                                                                                         210621    000224
   123       SELECT;                                                                              B01          210621    000225
   124         WHEN DIABETES = 'Y';                                                               X01          210621    000226
   125           FRATE += .6;                                                                      01          210621    000227
   126       ENDSL;                                                                               E01          210621    000228
   127                                                                                                         210621    000229
   128       SELECT;                                                                              B01          210621    000230
   129         WHEN HBPRESSURE = 'Y';                                                             X01          210621    000231
   130           FRATE += .3;                                                                      01          210621    000232
   131       ENDSL;                                                                               E01          210621    000233
   132                                                                                                         210621    000234
   133       SELECT;                                                                              B01          210621    000235
   134         WHEN RSPDISEASE= 'Y';                                                              X01          210621    000236
   135           FRATE += .4;                                                                      01          210621    000237
   136       ENDSL;                                                                               E01          210621    000238
```

```
Line   <-------------------- Source Specifications -------------------------><---- Comments ----> Do  Page  Change Src Seq
Number ....1....+....2....+....3....+....4....+....5....+....6....+....7....+....8....+....9....+...10 Num Line  Date  Id  Number
   137                                                                                                           210621      000239
   138        SELECT;                                                                                 B01       210621      000240
   139          WHEN GENDER = 'F';                                                                    X01       210621      000241
   140            FRATE -= .05;                                                                        01       210621      000242
   141          ENDSL;                                                                                E01       210621      000243
   142        ENDSR;                                                                                            210621      000244
   143                                                                                                          210621      000245
   144        BEGSR CheckCohort;                                                                                210621      000246
   145          IF FRATE >= 9.5;                                                                      B01       210621      000247
   146            COHORT = 'Group 1';                                                                  01       210621      000248
   147          ELSEIF FRATE >= 5.5;                                                                  X01       210621      000249
   148            COHORT = 'Group 2';                                                                  01       210621      000250
   149          ELSEIF FRATE >= 3.5;                                                                  X01       210621      000251
   150            COHORT = 'Group 3';                                                                  01       210621      000252
   151          ELSEIF FRATE >= 1.5;                                                                  X01       210621      000253
   152            COHORT = 'Group 4';                                                                  01       210621      000254
   153          ELSE;                                                                                 X01       210621      000255
   154            COHORT = 'Group 5';                                                                  01       210621      000256
   155          ENDIF;                                                                                E01       210621      000257
   156        ENDSR;                                                                                            210621      000258
   157                                                                                                          210621      000259
   158=ORISKFACTOR                                                                                              4000001
        *-----------------------------------------------------------------------------*                          4
        * RPG record format  . . . . :  RISKFACTOR                                     *                          4
        * External format  . . . . . :  RISKFACTOR : DC433E08/COVIDDSP                 *                          4
        *-----------------------------------------------------------------------------*                          4
   159=O                          *IN60              1N CHAR        1                                            4000002
   160=O                          *IN95              2N CHAR        1                                            4000003
   161=O                          *IN96              3N CHAR        1                                            4000004
   162=O                          *IN97              4N CHAR        1                                            4000005
   163=O                          *IN98              5N CHAR        1                                            4000006
   164=O                          *IN99              6N CHAR        1                                            4000007
   165=O                          BIRTHDATE         16D DATE *ISO- 10                                            4000008
   166=O                          GENDER            17A CHAR        1                                            4000009
   167=O                          CVDISEASE         18A CHAR        1                                            4000010
   168=O                          DIABETES          19A CHAR        1                                            4000011
   169=O                          RSPDISEASE        20A CHAR        1                                            4000012
   170=O                          HBPRESSURE        21A CHAR        1                                            4000013
   171=ORISKASSMNT                                                                                              5000001
        *-----------------------------------------------------------------------------*                          5
        * RPG record format  . . . . :  RISKASSMNT                                     *                          5
        * External format  . . . . . :  RISKASSMNT : DC433E08/COVIDDSP                 *                          5
        *-----------------------------------------------------------------------------*                          5
   172=O                          AGE                3S ZONE       3,0                                           5000002
   173=O                          FRATE              8S ZONE       5,3                                           5000003
   174=O                          TOTALQ            11S ZONE       3,0                                           5000004
   175=O                          COHORT            20A CHAR        9                                            5000005
   176=OCINFO                                                                                                   6000001
        *-----------------------------------------------------------------------------*                          6
        * RPG record format  . . . . :  CINFO                                          *                          6
        * External format  . . . . . :  CINFO : BCI433LIB/COVIDINFO                    *                          6
        *-----------------------------------------------------------------------------*                          6

        * * * * *   E N D   O F   S O U R C E   * * * * *
```

A d d i t i o n a l   D i a g n o s t i c   M e s s a g e s

Msg id  Sv Number Seq      Message text

* * * * *   E N D   O F   A D D I T I O N A L   D I A G N O S T I C   M E S S A G E S   * * * * *


O u t p u t   B u f f e r   P o s i t i o n s

Line    Start End   Field or Constant

Number Pos   Pos
    159     1     1 *IN60
    160     2     2 *IN95
    161     3     3 *IN96
    162     4     4 *IN97
    163     5     5 *IN98
    164     6     6 *IN99
    165     7    16 BIRTHDATE
    166    17    17 GENDER
    167    18    18 CVDISEASE
    168    19    19 DIABETES
    169    20    20 RSPDISEASE
    170    21    21 HBPRESSURE
    172     1     3 AGE
    173     4     8 FRATE
    174     9    11 TOTALQ
    175    12    20 COHORT

* * * * *   E N D   O F   O U T P U T   B U F F E R   P O S I T I O N   * * * * *




DC433E08 MD RAFI AL ARABI BHUI

                       C r o s s   R e f e r e n c e

File and Record References:

```
    File            Device          References (D=Defined)
      Record
    COVIDDSP        WORKSTN              1D
      RISKFACTOR                         1D      4        16        22
                                        28      34        40        46
                                        54      66       158
      RISKASSMNT                         1D     11        55       171
    COVIDINFO       WORKSTN              2D
      CINFO                              2D     14        60       176
```

Global Field References:

```
    Field           Attributes      References (D=Defined M=Modified)
    *INLR           N(1)                71M
    *IN01           N(1)                12D     59
    *IN03           N(1)                13D     18        64
    *IN60           N(1)                53M     56M      159
    *IN95           N(1)                21M     23M      160
    *IN96           N(1)                27M     29M      161
    *IN97           N(1)                33M     35M      162
    *IN98           N(1)                39M     41M      163
    *IN99           N(1)                45M     47M      164
    AGE             P(3,0)              75M     94        96        98
                                       100     102       104       106
                                       108     110       172
    AGEFACTOR       BEGSR               76      92D
    BIRTHDATE       D(10*ISO-)           5M     75        84M      165
    CHECKCOHORT     BEGSR               78     144D
    CLEAR           BEGSR               15      65        83D
    COHORT          A(9)                80M     80       146M      148M
                                       150M    152M      154M      175
    CVDISEASE       A(1)                 7M     26        86M      119
                                       167
    DETERMINERISK   BEGSR               51      74D
    DIABETES        A(1)                 8M     32        87M      124
                                       168
    FRATE           P(5,3)              95M     97M       99M      101M
                                       103M    105M      107M      109M
                                       111M    120M      125M      130M
                                       135M    140M      145       147
                                       149     151       173
    GENDER          A(1)                 6M     20        85M      139
                                       166
    HBPRESSURE      A(1)                10M     44        89M      129
                                       170
    OTHERFACTORS    BEGSR               77     117D
    RSPDISEASE      A(1)                 9M     38        88M      134
                                       169
    TOTALQ          P(3,0)              52M    174
```

Indicator References:

```
    Indicator                       References (D=Defined M=Modified)
    01                                  12M     59
```

```
     03                                  13M    18      64
     60                                  53M    56M    159
     95                                  21M    23M    160
     96                                  27M    29M    161
     97                                  33M    35M    162
     98                                  39M    41M    163
     99                                  45M    47M    164
     LR                                  71M
```

* * * * *   E N D   O F   C R O S S   R E F E R E N C E   * * * * *

                        E x t e r n a l   R e f e r e n c e s

    Statically bound procedures:
        Procedure                        References
        No references in the source.

    Imported fields:
        Field             Attributes        Defined
        No references in the source.

    Exported fields:
        Field             Attributes        Defined
        No references in the source.

 * * * * *   E N D   O F   E X T E R N A L   R E F E R E N C E S   * * * * *

M e s s a g e   S u m m a r y

Msg id  Sv Number Message text

 * * * * *   E N D   O F   M E S S A G E   S U M M A R Y   * * * * *

                    F i n a l   S u m m a r y

Message Totals:

    Information  (00) . . . . . . . . :        0
    Warning     (10) . . . . . . . :        0
    Error       (20) . . . . . . . :        0
    Severe Error (30+) . . . . . . . :        0
    ------------------------------   -------
    Total . . . . . . . . . . . . . :        0


Source Totals:

    Records . . . . . . . . . . . . :      176
    Specifications  . . . . . . . . :      150
    Data records  . . . . . . . . . :        0
    Comments  . . . . . . . . . . . :        1

        * * * * *   E N D   O F   F I N A L   S U M M A R Y   * * * * *
Program COVIDRPG placed in library DC433E08. 00 highest severity. Created on 06/21/21 at 18:39:04.
        * * * * *   E N D   O F   C O M P I L A T I O N   * * * * *

                            DC433E08 MD RAFI AL ARABI BHUI