

LOOKUP-FILE

ITEM XEA N 1 5
ITEM XVIL N 6 3

Control

Questionnaire LGA DIS EA COMP HH

MAX-RECORDS GPC 3
HOUSE 3
POP 400

Reports Summary

Variables

AGEHHH,INDX,px,ph,IND,AGEINMON,CHBA,DIFFAGE,NBSPOUSE,NBCHILD,TMC,TESTAGE,
TYFLE

RANDSEX 2

AGEBYLEV (37,4). MINIMUM AGE FOR LEVEL ATTAINED AND MAX FOR LEVEL ATTENDED

00 03 06 05
01 05 10 07
02 06 11 08
03 07 12 09
04 08 13 10
05 09 14 11
06 10 17 12
07 11 17 13
08 12 18 14
09 13 22 15
10 14 25 16
11 15 26 17
12 16 27 18
13 17 28 19
21 14 30 16
22 15 31 17
23 16 32 18
31 14 30 16
32 15 31 17
33 16 32 18
34 17 33 19
35 18 34 20
36 19 35 21
37 20 36 22
41 18 45 20
42 19 46 21
43 20 47 22
51 14 45 16
52 15 46 17
53 16 47 18
54 17 48 19
61 18 45 20
62 19 46 21
63 20 47 22
64 21 48 23
70 20 98 22
80 23 98 25

LEVBYAGE (15,2)

00 03
00 04
01 05
02 06
03 07

04 08
05 09
06 10
07 11
08 12
09 13
10 14
11 15
12 16
13 17

AGMINCHD(15,2) . MINIMUM AGE OF MOTHER FOR DECLARED NUMBER OF CHILDREN

1 12
2 12
3 15
4 17
5 20
6 22
7 25
8 27
9 30
10 32
11 35
12 37
13 40
14 42
15 45

.LARGE LUPVAL,LUPMM 0,OLDEA 0

For-new-quest .

IF LGA<>VALID
MSG "CODE LGA NOT VALID"
END-IF

IF DIS<>VALID
MSG "CODE DIS NOT VALID"
END-IF

IF LGA <> EALGA
MSG "THE FIRST DIGIT OF THE EA NUMBER IS NOT THE LGA CODE"
END-IF

IF DIS <> EADIS
MSG "THE FIRST TWO DIGITS OF THE EA NUMBER ARE NOT THE DISTRICT NUMBER"
END-IF

IF COMP<>VALID
MSG "COMPOUND NUMBER NOT VALID"
END-IF

IF GRP<>VALID
MSG "TYPE OF HOUSEHOLD NOT VALID"
END-IF

IF HH<>VALID
MSG "HOUSEHOLD NUMBER NOT VALID"
END-IF

MATCH (EA VIL) .DATA FILE
(XEA XVIL) .look-up FILE

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IF MFLAG="N"
  MSG "LGA, DISTRICT, ENUMERATION AREA AND TOWN/VILLAGE DO NOT MATCH"
END-IF

IF GRP=1 AND TYPE-COUNT(GPC) < 1
  MSG "THERE IS NO GPC RECORD FOR A NORMAL HOUSEHOLD (DATA ENTRY ERROR)"
END-IF

IF GRP=1 AND TYPE-COUNT(GPC) > 1
  MSG "THERE IS MORE THAN ONE GPC RECORD (DATA ENTRY ERROR)"
END-IF

IF GRP=1 AND TYPE-COUNT(HOUSE) < 1
  MSG "THERE IS NO HOUSEHOLD RECORD (DATA ENTRY ERROR)"
END-IF

IF GRP=1 AND TYPE-COUNT(HOUSE) > 1
  MSG "THERE IS MORE THAN ONE HOUSEHOLD RECORD (DATA ENTRY ERROR)"
END-IF

IF TYPE-COUNT(POP) < 1
  MSG "THE HOUSEHOLD IS EMPTY (DATA ENTRY ERROR) - QUESTIONNAIRE IS STOPPED"
END-IF

IF GRP=2 AND TYPE-COUNT(GPC) <> 0
  MSG "THERE IS A GPC RECORD FOR A GROUP HOUSEHOLD"
END-IF

IF GRP=2 AND TYPE-COUNT(HOUSE) <> 0
  MSG "THERE IS A HOUSE RECORD FOR A GROUP HOUSEHOLD"
END-IF

For-each (HOUSE)

  CALL SRH01a

  IF H01A=1 AND H01B<>BLANK
    MSG "! TYPE OF RENT NOT BLANK FOR OWNER OCCUPIED"
    MSG "* TYPE OF RENT BECOMES N/A"
    IMPUTE H01B=BLANK
  END-IF

  IF H01A=2:3
    CALL SRH01b
  END-IF

  CALL SRH02
  CALL SRH03

  IF H03=4 AND H04<>BLANK
    MSG "! MAIN COOKING FUEL NOT BLANK FOR NOT COOKING"
    MSG "* FUEL BECOMES N/A"
    IMPUTE H04=BLANK
  END-IF

  IF H03<>4
    CALL SRH04
  END-IF

CALL SRH05

```

CALL SRH06A

IF H06A=2 AND H06B<>BLANK

MSG "! USE OF TOILET NOT BLANK IF NO TOILET"

IF H06B=1:2

MSG "* IF USE IS YES,TOILET BECOMES EXISTING IN HOUSE/COUMPOUND (H06A=1)"

IMPUTE H06A=1

ELSE

MSG "* IF USE (H06B) IS NO OR N/R, PRESENCE OF TOILET (H06A) BECOMES N/R"

IMPUTE H06A=BLANK

END-IF

END-IF

IF H06A<>2

CALL SRH06B

END-IF

CALL SRH06c

CALL SRH07

CALL SRH08

CALL SRH09

SUBROUTINE SRH01a

IF H01a<>VALID AND H01a<>NR

MSG "CODE H01a NOT VALID"

IMPUTE H01a=BLANK

END-IF

IF H01a=NR

MSG "H01a NOT REPORTED"

END-IF

IF H01A=BLANK AND H01B<>BLANK

IMPUTE H01A=2

MSG "# BASIS OF OCCUPATION BECOMES RENT IF OWNERSHIP IN H01B"

END-IF

IF H01a=NR

MSG "H01a REMAINS NOT REPORTED"

END-IF

END-SUBROUTINE SRH01A

SUBROUTINE SRH01b

IF H01b<>VALID AND H01b<>NR

MSG "CODE H01b NOT VALID"

IMPUTE H01b=BLANK

END-IF

IF H01b=NR

MSG "H01b NOT REPORTED"

END-IF

END-SUBR SRH01b

SUBROUTINE SRH02

IF H02<>VALID AND H02<>NR

MSG "CODE H02 NOT VALID"

IMPUTE h02=BLANK

END-IF

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IF H02=NR
  MSG "H02 NOT REPORTED"
END-IF

IF H02=BLANK AND H04=6
  IMPUTE H02=1
  MSG "# SOURCE OF LIGHT ELECTRICITY IF COOKING FUEL IS ELECTRICITY"
END-IF

IF H02=NR
  MSG "H02 REMAINS NOT REPORTED"
END-IF

IF H02=1 AND DIS<>10 AND DIS<>11 AND DIS<>12 AND DIS<>20 AND DIS<>30
  AND DIS<>32 AND DIS<>43 AND DIS<>53 AND DIS<>55 AND DIS<>73
  AND DIS<>74 AND DIS<>80
  MSG "CANNOT HAVE NAWEC ELECTRICITY IN THIS DISTRICT"
  IMPUTE H02=2
  MSG "SOURCE OF ELECTRICITY BECOMES GENERATOR"
END-IF

IF H04=6 AND H02<>1
  MSG "=> WOULD NOT COOK WITH ELECTRICITY IF NO ELECTRICITY FOR LIGHT"
  MSG "* FUEL BECOMES N/R"
  IMPUTE H04=BLANK
END-IF

END-SUBR SRH02

SUBROUTINE SRH03

IF H03<>VALID AND H03<>NR
  MSG "CODE H03 NOT VALID"
  IMPUTE H03=BLANK
END-IF

IF H03=NR
  MSG "H03 NOT REPORTED"
END-IF

END-SUBR SRH03

SUBROUTINE SRH04

IF H04<>VALID AND H04<>NR
  MSG "CODE H04 NOT VALID"
  IMPUTE H04=BLANK
END-IF

IF H04=NR
  MSG "H04 NOT REPORTED"
END-IF

END-SUBR SRH04

SUBROUTINE SRH05

IF H05<>VALID AND H05<>NR
  MSG "CODE H05 NOT VALID"
  IMPUTE H05=BLANK
END-IF

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```
IF H05=NR
  MSG "H05 NOT REPORTED"
END-IF
```

```
END-SUBR SRH05
```

```
SUBROUTINE SRH06A
```

```
IF H06A<>VALID AND H06A<>NR
  MSG "CODE H06A NOT VALID"
  IMPUTE H06A=BLANK
END-IF
```

```
IF H06A=NR
  MSG "H06A NOT REPORTED"
END-IF
```

```
IF H06A=BLANK AND H06B<>BLANK AND H06B<>3
  IMPUTE H06A=1
  MSG "# TOILET EXISTS IF USED"
END-IF
```

```
IF H06A=NR
  MSG "H06A REMAINS NOT REPORTED"
END-IF
```

```
END-SUBR SRH06A
```

```
SUBROUTINE SRH06B
```

```
IF H06B<>VALID AND H06B<>NR
  MSG "CODE H06B NOT VALID"
  IMPUTE H06B=BLANK
END-IF
```

```
IF H06B=NR
  MSG "H06B NOT REPORTED"
END-IF
```

```
END-SUBR SRH06B
```

```
SUBROUTINE SRH06c
```

```
IF H06c<>VALID AND H06c<>NR
  MSG "CODE H06C NOT VALID"
  IMPUTE H06c=BLANK
END-IF
```

```
IF H06c=NR
  MSG "H06C NOT REPORTED"
END-IF
```

```
END-SUBR SRH06c
```

```
SUBROUTINE SRH07
```

```
IF H07<>VALID AND H07<>NR
  MSG "CODE H07 NOT VALID"
  IMPUTE H07=BLANK
END-IF
```

```
IF H07=NR
  MSG "H07 NOT REPORTED"
END-IF
```

```
END-SUBR SRH07
```

```
SUBROUTINE SRH08
```

```
IF H08<>VALID AND H08<>NR
  MSG "CODE H08 NOT VALID"
  IMPUTE H08=BLANK
END-IF
```

```
IF H08=NR
  MSG "H08 NOT REPORTED"
END-IF
```

```
END-SUBR SRH08
```

```
SUBROUTINE SRH09
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```
DO VARYING INDX FROM 1 BY 1 UNTIL INDX>5
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```
  IF H09A(1,INDX)<>VALID AND H09A(1,INDX)<>NR
    MSG "CODE H09A NOT VALID"
    IMPUTE H09A(1,INDX)=BLANK
  END-IF
```

```
  IF H09A(1,INDX)=NR AND (H09B(1,INDX)<>BLANK OR H09C(1,INDX)<>BLANK)
    MSG "H09A NOT REPORTED"
  END-IF
```

```
  IF H09B(1,INDX)<>VALID AND H09B(1,INDX)<>NR
    MSG "CODE H09B NOT VALID"
    IMPUTE H09B(1,INDX)=BLANK
  END-IF
```

```
  IF H09B(1,INDX)=NR AND (H09A(1,INDX)<>BLANK OR H09C(1,INDX)<>BLANK)
    MSG "H09B NOT REPORTED"
  END-IF
```

```
  IF H09C(1,INDX)<>VALID AND H09C(1,INDX)<>NR
    MSG "CODE H09C NOT VALID"
    IMPUTE H09C(1,INDX)=BLANK
  END-IF
```

```
  IF H09C(1,INDX)=NR AND (H09A(1,INDX)<>BLANK OR H09B(1,INDX)<>BLANK)
    MSG "H09C NOT REPORTED"
  END-IF
```

```
  IF H09B(1,INDX)=1:2
    MSG "=> HHH CANNOT BE DEAD"
    if p02(1)=2
      impute h09b(1,indx)=3
      msg "*" IF SEX HHH IS FEMALE, HE WAS THE SPOUSE"
    ELSE
      IMPUTE H09B(1,INDX)=BLANK
      MSG "*" IF SEX HHH IS MALE, RELATIONSHIP OF DECEASED BECOMES NR"
    END-IF
  END-IF
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END-DO
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END-SUBR SRH09
```

For-each (POP) .

CALL SRP00

CALL SRP02

CALL SRP03

IF GRP=2

IF P04<>BLANK

MSG "! MEMBER OF GROUP HH SHOULD NOT HAVE RELATIONSHIP TO HHH"

MSG "* RELATIONSHIP (P04) BECOMES N/A, AS TYPE OF HH ALREADY CHECKED TWICE"

IMPUTE P04=BLANK

END-IF

ELSE

CALL SRP04

END-IF

CALL SRP05

IF P05<>0 AND P06<>BLANK

MSG "! NON GAMBIAN WITH ETHNICITY"

MSG "* ETNICITY BECOMES N/A"

IMPUTE P06=BLANK

END-IF

IF P05=0

CALL SRP06

END-IF

CALL SRP07

IF GRP=2

IF P08A<>BLANK

MSG "! MEMBER OF GROUP HH SHOULD NOT HAVE DATA ON SURVIVAL OF FATHER"

MSG "* SURVIVAL (P08A) BECOMES N/A, AS TYPE OF HH ALREADY CHECKED TWICE"

IMPUTE P08A=BLANK

END-IF

IF P08B<>BLANK

MSG "! MEMBER OF GROUP HH SHOULD NOT HAVE DATA ON SURVIVAL OF MOTHER"

MSG "* SURVIVAL (P08B) BECOMES N/A, AS TYPE OF HH ALREADY CHECKED TWICE"

IMPUTE P08B=BLANK

END-IF

ELSE

CALL SRP08A

CALL SRP08B

END-IF

CALL SRP09

CALL SRP10

IF P10A=0 AND P11<>BLANK

MSG "! NO PREVIOUS RESIDENCE BUT DURATION NOT BLANK"

IF P09A=0 OR P09A=DIS

MSG "* IF SAME PLACE OF BIRTH, DURATION (P11) BECOMES N/A"

IMPUTE P11=BLANK

ELSE

MSG "* IF PLACE OF BIRTH NOT SAME AS PLACE OF ENUMERATION, P10B=P10A"

IMPUTE P10A=P09A

END-IF

END-IF

IF P10A<>0


```

CALL SRP11
END-IF

IF P03<>BLANK AND P03>=2
  IF GRP=2
    IF P12A<>BLANK
      MSG "! MEMBER OF GROUP HH SHOULD NOT HAVE DATA ON DISABILITY 1"
      MSG "* DISABILITY 1 (P12A) BECOMES N/A, AS TYPE OF HH ALREADY CHECKED"
      IMPUTE P12A=BLANK
    END-IF
    IF P12B<>BLANK
      MSG "! MEMBER OF GROUP HH SHOULD NOT HAVE DATA ON DISABILITY 2"
      MSG "* DISABILITY 2 (P12B) BECOMES N/A, AS TYPE OF HH ALREADY CHECKED"
      IMPUTE P12B=BLANK
    END-IF
  ELSE
    CALL SRP12A
    CALL SRP12B
  END-IF
END-IF

IF P03<>BLANK AND P03<2
  IF P12A<>NA OR P12B<>NA
    MSG "! CHILD LESS THAN 2 SHOULD NOT HAVE DATA IN P12A AND P12B"
    MSG "* P12A AND P12B BECOME N/A"
    IMPUTE P12A=BLANK
    IMPUTE P12B=BLANK
  END-IF
END-IF

IF P03<>BLANK AND P03>=3
  CALL SRP13A
  IF P13A<>1
    CALL SRP13b
  END-IF
  IF P13A=1 AND P13B<>BLANK
    MSG "! NEVER BEEN TO SCHOOL WITH LEVEL OF EDUCATION"
    IF P16A=5
      MSG "* BECOMES ATTENDING NOW IF STUDENT IN P16A"
      IMPUTE P13A=2
    END-IF
  END-IF
  IF P13A=1 AND P13B<>BLANK
    IF P14A=1
      MSG "* BECOMES ATTENDED IN THE PAST IF CAN READ AND WRITE"
      IMPUTE P13A=3
    END-IF
  END-IF
  IF P13A=1 AND P13B<>BLANK
    IF P14A=2:3 OR P14A=BLANK
      MSG "* LEVEL OF EDUCATION BECOMES N/A IF CANNOT WRITE"
      IMPUTE P13B=BLANK
    END-IF
  END-IF
END-IF

IF P03<>BLANK AND P03<3
  IF P13A<>NA
    MSG "! CHILD LESS THAN 3 SHOULD NOT HAVE DATA IN P13A"
  END-IF
  IF P13A=2:3 AND P13B=BLANK
    MSG "* ATTENDANCY BECOMES N/A IF LEVEL IS N/A"
    IMPUTE P13A=BLANK
  END-IF
  IF P13A<>NA .STILL
    IF (P13A=2 OR P16A=5) AND P13B<>BLANK

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        DO VARYING IND FROM 1 BY 1
          UNTIL IND>37
            IF P14B=AGEBYLEV(IND,1)
              IMPUTE P03=AGEBYLEV(IND,4)
              MSG "*" AGE IMPUTED FOR THOSE ATTENDING SCHOOL AT A STATED LV"
            END-IF
          END-DO
        END-IF
      IF P03<>BLANK AND P03<3 AND P13A<>BLANK
        MSG "*" AGE BECOMES N/R FOR NOT STUDENTS OR LEVEL N/R"
        IMPUTE P03=BLANK
      END-IF
    END-IF

  END-IF

IF P03<>BLANK AND P03<3
  IF P13B<>NA
    MSG "! CHILD LESS THAN 3 SHOULD NOT HAVE DATA IN P13B"
    MSG "*" LEVEL BECOMES N/A"
    IMPUTE P13B=BLANK
  END-IF
END-IF

IF P03<>BLANK AND P03>=7
  CALL SRP14A
  IF P14A=1:2
    CALL SRP14B
  END-IF
  IF P14A=3 AND P14B<>BLANK
    MSG "! CANNOT READ OR WRITE AND KNOWS A SCRIPT"
    IF P13A=2:3 AND P13B<>BLANK AND P13B>6
      MSG "*" IF GOING/GONE TO SCHOOL AND LEVEL AT LEAST PRIMARY, BECOMES YES"
      IMPUTE P14A=1
    ELSE
      MSG "*" ELSE SCRIPT (P14B) BECOMES N/A"
      IMPUTE P14B=BLANK
    END-IF
  END-IF
END-IF

IF GRP=1
  CALL SRP15A
  CALL SRP15B
  CALL SRP15C
ELSE
  IF P15A<>BLANK
    MSG "! MEMBER OF GROUP HH SHOULD NOT HAVE DATA ON ACCESS TO NEWSPAPER"
    MSG "*" ACCESS TO PAPER (P15A) BECOMES N/A, AS TYPE OF HH ALREADY CHECKED"
    IMPUTE P15A=BLANK
  END-IF
  IF P15B<>BLANK
    MSG "! MEMBER OF GROUP HH SHOULD NOT HAVE DATA ON ACCESS TO RADIO"
    MSG "*" ACCESS TO RADIO (P15B) BECOMES N/A, AS TYPE OF HH ALREADY CHECKED"
    IMPUTE P15B=BLANK
  END-IF
  IF P15C<>BLANK
    MSG "! MEMBER OF GROUP HH SHOULD NOT HAVE DATA ON ACCESS TO TV"
    MSG "*" ACCESS TO TV (P15C) BECOMES N/A, AS TYPE OF HH ALREADY CHECKED"
    IMPUTE P15C=BLANK
  END-IF
END-IF

END-IF

IF P03<>BLANK AND P03<7

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IF P14A<>NA
  MSG "! CHILD LESS THAN 7 SHOULD NOT HAVE DATA IN P14A"
END-IF
IF P14A<>NA .STILL
  IF (P13A=2 OR P16A=5) AND P13B<>BLANK
    DO VARYING IND FROM 1 BY 1
      UNTIL IND>37
        IF P14B=AGEBYLEV(IND,1)
          IMPUTE P03=AGEBYLEV(IND,4)
          MSG "* AGE IMPUTED FOR THOSE ATTENDING SCHOOL AT A STATED LV"
        END-IF
      END-DO
    END-IF
  IF P03<>BLANK AND P03<7 AND P14A<>BLANK
    MSG "* AGE BECOMES N/R FOR NOT STUDENTS OR LEVEL N/R"
    IMPUTE P03=BLANK
  END-IF
END-IF
END-IF

IF P03<>BLANK AND P03<7

  IF P14A<>NA
    MSG "! AGAIN, CHILD LESS THAN 7 SHOULD NOT HAVE DATA IN P14A"
    MSG "* P14A BECOMES N/A"
    IMPUTE P14A=BLANK
  END-IF

  IF P14B<>NA
    MSG "! CHILD LESS THAN 7 SHOULD NOT HAVE DATA IN P14B"
    MSG "* P14B BECOMES N/A"
    IMPUTE P14B=BLANK
  END-IF

  IF P15A<>NA
    MSG "! CHILD LESS THAN 7 SHOULD NOT HAVE DATA IN P15A"
    MSG "* P15A BECOMES N/A"
    IMPUTE P15A=BLANK
  END-IF

  IF P15B<>NA
    MSG "! CHILD LESS THAN 7 SHOULD NOT HAVE DATA IN P15B"
    MSG "* P15B BECOMES N/A"
    IMPUTE P15B=BLANK
  END-IF

  IF P15C<>NA
    MSG "! CHILD LESS THAN 7 SHOULD NOT HAVE DATA IN P15C"
    MSG "* P15C BECOMES N/A"
    IMPUTE P15C=BLANK
  END-IF

END-IF

IF P03<>BLANK AND P03>=7
  CALL SRP16A
END-IF

IF P03<>BLANK AND P03<7
  IF P16A<>NA
    MSG "! CHILD LESS THAN 7 SHOULD NOT HAVE DATA IN P16A"
    MSG "* P16A BECOMES N/A"
    IMPUTE P16A=BLANK
  END-IF
END-IF

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IF P03<>BLANK AND P03>=7 AND (P16A=4 OR P16A=6)
  CALL SRP16B
END-IF

IF P03<>BLANK AND P03<7 OR (P16A<>4 AND P16A<>6 AND P16A<>BLANK)
  IF P16B<>NA
    MSG "! CHILD LESS THAN 7 OR P16A <> 4/6/NR SHOULD NOT HAVE DATA IN P16B"
    impute p16b=blank
    MSG "* P16B BECOMES N/A"
  END-IF
END-IF

IF P03<>BLANK AND P03>=7 AND P16A<>1 AND P16A<>2 AND P16A<>5 AND P16B<>1
  CALL SRP16C
END-IF

IF (P03<>BLANK AND P03<7) OR P16A=1 OR P16A=2 OR P16A=5 OR P16B=1
  IF P16C<>NA
    MSG "! CHILD < 7 OR P16A= 1/2/5 OR P16B=1 SHOULD NOT HAVE DATA IN P16C"
    impute p16C=blank
    MSG "* P16C BECOMES N/A"
  END-IF
END-IF

IF P03<>BLANK AND P03>=7
  IF P16A=1 OR (P16A=4 AND P16B=1) OR (P16A=6 AND P16B=1)
    CALL SRP16D
  END-IF
END-IF

IF (P03<>BLANK AND P03<7) OR P16A=2 OR P16A=5
  IF P16D<>NA
    MSG "! CHILD LESS THAN 7 OR P16A =2/5 SHOULD NOT HAVE DATA IN P16D"
    impute p16D=blank
    MSG "* P16D BECOMES N/A"
  END-IF
END-IF

IF P03<>BLANK AND P03>=7 AND P16A=1:2
  CALL SRP17
  CALL SRP18B
  CALL SRP19
END-IF

IF (P03<>BLANK AND P03<7) OR P16A=5
  IF P17<>NA
    MSG "! CHILD < 7 OR NOT WORKING/EMPLOYED SHOULD NOT HAVE DATA IN P17"
    impute p17=blank
    MSG "* P17 BECOMES N/A"
  END-IF
  IF P18b<>NA
    MSG "! CHILD < 7 OR NOT WORKING/EMPLOYED SHOULD NOT HAVE DATA IN P18A"
    impute p18B=blank
    MSG "* P18B BECOMES N/A"
  END-IF
  IF P19<>NA
    MSG "! CHILD < 7 OR NOT WORKING/EMPLOYED SHOULD NOT HAVE DATA IN P19"
    impute p19=blank
    MSG "* P19 BECOMES N/A"
  END-IF
END-IF

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IF P03<>BLANK AND P03<12
  IF P20<>NA
    MSG "! LESS THAN 12 SHOULD NOT HAVE DATA IN P20"
  END-IF

  IF P20<>NA .STILL
    IF (P13A=2 OR P16A=5) AND P13B<>BLANK
      DO VARYING IND FROM 1 BY 1
        UNTIL IND>37
          IF P14B=AGEBYLEV(IND,1)
            IMPUTE P03=AGEBYLEV(IND,4)
            MSG "* AGE IMPUTED FOR THOSE ATTENDING SCHOOL AT A STATED LV"
          END-IF
        END-DO
      END-IF
    IF P03<>BLANK AND P03<7 AND P20<>BLANK
      MSG "* AGE BECOMES N/R FOR NOT STUDENTS OR LEVEL N/R"
      IMPUTE P03=BLANK
    END-IF
  END-IF
  IF P20 <>NA . STILL STILL
    IMPUTE P20=BLANK
    MSG "* P20 IMPUTES N/A"
  END-IF

  IF P21<>NA AND P03<>BLANK AND P03<12
    MSG "! LESS THAN 12 SHOULD NOT HAVE DATA IN P21"
    MSG "* AGE HAS ALREADY BEEN CHECKED, P21 BECOMES N/A"
    IMPUTE P21=BLANK
  END-IF
END-IF

IF P03<>BLANK AND P03>=12
  CALL SRP20

  IF P20=1 AND P21<>BLANK
    MSG "! TYPE OF UNION FOR SINGLE"

    LET NBSPOUSE=0
    COUNT NBSPOUSE FOR P04=3
    IF P04=2 OR (P04=1:2 AND NBSPOUSE <>0)
      MSG "* SPOUSE OR HHH WITH SPOUSE(S) IN HH BECOME MARRIED"
      IMPUTE P20=2
    ELSE
      IF P02=1 AND P03<>BLANK AND P03>=25
        MSG "* IF MALE >= 25, TYPE REMAINS & MARITAL STATUS BECOMES N/R"
        IMPUTE P20=BLANK
      END-IF
      IF P02=1 AND P03<>BLANK AND P03<25
        MSG "* IF MALE < 25, REMAINS SINGLE AND TYPE BECOMES N/A"
        IMPUTE P21=BLANK
      END-IF
      IF P02=2 AND P03<>BLANK AND P03>=20
        MSG "* IF FEMALE >= 20, TYPE REMAINS & MARITAL STATUS BECOMES N/R"
        IMPUTE P20=BLANK
      END-IF
      IF P02=2 AND P03<>BLANK AND P03<20
        MSG "* IF FEMALE < 20, REMAINS SINGLE AND TYPE BECOMES N/A"
        IMPUTE P21=BLANK
      END-IF

      IF P20=1 AND P21<>BLANK
        MSG "* MARITAL STATUS (P20) BECOMES N/R FOR REMAINING CASES"
        IMPUTE P20=BLANK
      END-IF
    END-IF
  END-IF

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        END-IF
    END-IF
END-IF

IF P20=2:5
    CALL SRP21
END-IF
END-IF

IF GRP=2 OR (P03<>BLANK AND P03<12) OR P02=1
    IF P22a<>NA
        MSG "! MEMBER OF GRP HH, WOMEN <12 AND MEN SHOULD NOT HAVE DATA IN P22A"
        IF P02=1 AND P03<>BLANK AND P03>=12
            MSG "* THE MAN OVER 12 WITH FERTILITY BECOMES A WOMAN"
            IMPUTE P02=2
        END-IF
    END-IF
    IF P22A <> NA AND GRP=1 AND P02=2
        IMPUTE P03=P03+5
        MSG "* AGE IS INCREASED BY 5 YEARS"
    END-IF
END-IF

IF GRP=2 OR P02=1
    IMPUTE P22A=BLANK
    IMPUTE P22B=BLANK
    IMPUTE P22C=BLANK
    IMPUTE P22D=BLANK
    IMPUTE P22E=BLANK
    IMPUTE P22F=BLANK
    IMPUTE P22G=BLANK
    IMPUTE P22H=BLANK
    IMPUTE P22A=BLANK
    IMPUTE P23A=BLANK
    IMPUTE P23B=BLANK
    IMPUTE P23C=BLANK
    IMPUTE P23D=BLANK
    IMPUTE P23E=BLANK
    IMPUTE P23F=BLANK
    MSG "* ALL FERTILITY MADE NA FOR MALES OR MEMBERS OF GRP hh AT THIS STAGE"
END-IF

IF GRP=2 OR (P03<>BLANK AND P03<12) OR P02=1
    IF P22b<>NA
        MSG "! MEMBER OF GRP HH, WOMEN <12 AND MEN SHOULD NOT HAVE DATA IN P22B"
        IMPUTE P03=P03+5
        MSG "* AGE IS INCREASED BY 5 YEARS"
    END-IF
END-IF

IF GRP=2 OR (P03<>BLANK AND P03<12) OR P02=1
    IF P22c<>NA
        MSG "! MEMBER OF GRP HH, WOMEN <12 AND MEN SHOULD NOT HAVE DATA IN P22C"
        IMPUTE P03=P03+5
        MSG "* AGE IS INCREASED BY 5 YEARS"
    END-IF
END-IF

IF GRP=2 OR (P03<>BLANK AND P03<12) OR P02=1
    IF P22d<>NA
        MSG "! MEMBER OF GRP HH, WOMEN <12 AND MEN SHOULD NOT HAVE DATA IN P22D"
        IMPUTE P03=P03+5
        MSG "* AGE IS INCREASED BY 5 YEARS"
    END-IF
END-IF

IF GRP=2 OR (P03<>BLANK AND P03<12) OR P02=1

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```

IF P22E<>NA
  MSG "! MEMBER OF GRP HH, WOMEN <12 AND MEN SHOULD NOT HAVE DATA IN P22E"
  IMPUTE P03=P03+5
  MSG "** AGE IS INCREASED BY 5 YEARS"
END-IF
END-IF
IF GRP=2 OR (P03<>BLANK AND P03<12) OR P02=1
  IF P22F<>NA
    MSG "! MEMBER OF GRP HH, WOMEN <12 AND MEN SHOULD NOT HAVE DATA IN P22F"
    IMPUTE P03=P03+5
    MSG "** AGE IS INCREASED BY 5 YEARS"
  END-IF
END-IF
IF GRP=2 OR (P03<>BLANK AND P03<12) OR P02=1
  IF P22G<>NA
    MSG "! MEMBER OF GRP HH, WOMEN <12 AND MEN SHOULD NOT HAVE DATA IN P22G"
    IMPUTE P03=P03+5
    MSG "** AGE IS INCREASED BY 5 YEARS"
  END-IF
END-IF
IF GRP=2 OR (P03<>BLANK AND P03<12) OR P02=1
  IF P22H<>NA
    MSG "! MEMBER OF GRP HH, WOMEN <12 AND MEN SHOULD NOT HAVE DATA IN P22H"
    IMPUTE P03=P03+5
    MSG "** AGE IS INCREASED BY 5 YEARS"
  END-IF
END-IF
IF GRP=2 OR (P03<>BLANK AND P03<12) OR P02=1
  IF P23A<>NA
    MSG "! MEMBER OF GRP HH, WOMEN <12 AND MEN SHOULD NOT HAVE DATA IN P23A"
    IMPUTE P23A=BLANK
    MSG "** P23A BECOMES N/A"
  END-IF
END-IF
IF GRP=2 OR (P03<>BLANK AND P03<12) OR P02=1
  IF P23B<>NA
    MSG "! MEMBER OF GRP HH, WOMEN <12 AND MEN SHOULD NOT HAVE DATA IN P23B"
    IMPUTE P23B=BLANK
    MSG "** P23B BECOMES BLANK"
  END-IF
END-IF
IF GRP=2 OR (P03<>BLANK AND P03<12) OR P02=1
  IF P23c<>NA
    MSG "! MEMBER OF GRP HH, WOMEN <12 AND MEN SHOULD NOT HAVE DATA IN P23c"
    IMPUTE P03=P03+5
    MSG "** AGE IS INCREASED BY 5 YEARS"
  END-IF
END-IF
IF GRP=2 OR (P03<>BLANK AND P03<12) OR P02=1
  IF P23d<>NA
    MSG "! MEMBER OF GRP HH, WOMEN <12 AND MEN SHOULD NOT HAVE DATA IN P23d"
    IMPUTE P03=P03+5
    MSG "** AGE IS INCREASED BY 5 YEARS"
  END-IF
END-IF
IF GRP=2 OR (P03<>BLANK AND P03<12) OR P02=1
  IF P23e<>NA
    MSG "! MEMBER OF GRP HH, WOMEN <12 AND MEN SHOULD NOT HAVE DATA IN P23e"
    IMPUTE P03=P03+5
    MSG "** AGE IS INCREASED BY 5 YEARS"
  END-IF
END-IF
IF GRP=2 OR (P03<>BLANK AND P03<12) OR P02=1
  IF P23f<>NA
    MSG "! MEMBER OF GRP HH, WOMEN <12 AND MEN SHOULD NOT HAVE DATA IN P23f"
    IMPUTE P03=P03+5

```

```

      MSG "*" AGE IS INCREASED BY 5 YEARS"
    END-IF
  END-IF

  IF GRP=1 AND P02=2 AND P03<>BLANK AND P03>=12
    CALL SRP22
    CALL SRP23
  END-IF

  SUBROUTINE SRP00

  IF P00<>VALID
    MSG "CODE P00 NOT VALID"
    MSG "# P00 BECOMES NOT REPORTED"
    IMPUTE P00=BLANK
  END-IF

  IF P00 <> REC-NUMBER
    MSG "P00 IS NOT IN THE SEQUENCE"
    MSG "*" IMPUTE SEQUENCE NUMBER TO P00"
    IMPUTE P00=REC-NUMBER
  END-IF

  IF grp=1 AND REC-NUMBER=1 AND P04<>1:2
    MSG "=> FIRST MEMBER OF HH IS NOT HEAD"

    LET IND=0
    FIND IND FOR P04=1:2

    IF IND<>0
      MSG "*" HHH FOUND ON ANOTHER LINE AND INDIVIDUALS ARE SWAPPED"
      LET PX=IND
      LET PH=1
      CALL MOVEHHH
    END-IF
    IF IND=0
      LET P04(1)=1
      MSG "*" IF NO HHH INSIDE HH, FIRST MEMBER BECOME HHH"
    END-IF
  END-IF

  IF REC-NUMBER=1
    IMPUTE P00(1)=1
  END-IF

  IF GRP=1 AND REC-NUMBER <> 1 AND P04=1:2
    MSG "=> HHH FOUND INSIDE HH (NOT ON 1ST LINE)"
    IMPUTE P04=BLANK
    MSG "*" P04 BECOMES BLANK"
  END-IF

  END-SUBR SRP00

  SEGMENT

  SUBROUTINE SRP02

  IF P02<>VALID
    MSG "CODE P02 NOT VALID"
    MSG "# P02 BECOMES NOT REPORTED"
    IMPUTE P02 = BLANK
  END-IF

  IF P02=BLANK

```



```

      MSG "P02 NOT REPORTED"
END-IF

IF P02=BLANK AND P22A<>BLANK AND P22B<>BLANK
  IMPUTE P02=2
  MSG "# SEX BECOMES FEMALE IF DATA IN P22A AND P22"
END-IF

IF P02=BLANK AND P03<>BLANK AND P03>=12 AND P22A=BLANK AND P22B=BLANK
  IMPUTE P02=1
  MSG "# SEX BECOMES MALE FOR 12 AND OVER WITH NO DATA IN P22A AND P22B"
END-IF

IF P02=BLANK AND P04=3 AND P04(1)=1:2 AND P02(1)=1:2
  IMPUTE P02=3 - P02(1)
  MSG "# IF SPOUSE OF HHH SEX BECOMES OPPOSITE OF SEX OF HHH"
END-IF

IF P02=BLANK AND P04=1:2
  LET IND=0
  FIND IND FOR P04=3
  IF IND<>0 AND P02(IND)=1:2
    IMPUTE P02=3 - P02(IND)
    MSG "# IF HHH AND SPOUSE IN HH SEX BECOMES OPPOSITE OF SEX OF SPOUSE"
  END-IF
END-IF

IF P02=BLANK
  MSG "P02 REMAINS NOT REPORTED"
  IMPUTE P02=3-RANDSEX
  LET RANDSEX=P02
  MSG "# SEX IMPUTED RANDOMLY"
END-IF

IF P02=BLANK
  MSG "P02 REMAINS NOT REPORTED AFTER RANDOM IMPUTATION"
END-IF

IF P04=3 AND P04(1)=1:2 AND P02=P02(1)
  MSG "SPOUSE AND HHH SAME SEX"
  IF P02=1 AND P22A<>BLANK AND P22B<>BLANK AND P22A(1)=BLANK AND P22B(1)=BLANK
    MSG "*" IF SPOUSE IS MALE WITH FERTILITY, SEX OF SPOUSE BECOMES FEMALE"
    IMPUTE P02=2
  END-IF
END-IF

IF P04=3 AND P04(1)=1:2 AND P02=P02(1)
  IF P02=1 AND P22A=BLANK AND P22B=BLANK AND P22A(1)<>BLANK AND P22B(1)<>BLANK
    MSG "*" IF SP MALE W/NO FERT, AND HHH WITH FERT SEX HHH BECOMES FEMALE"
    IMPUTE P02(1)=2
  END-IF
END-IF

IF P04=3 AND P04(1)=1:2 AND P02=P02(1)
  IF P02=2 AND P22A<>BLANK AND P22B<>BLANK AND P22A(1)=BLANK AND P22B(1)=BLANK
    MSG "*" IF SP FEMALE W/FERT, AND HHH WITHOUT FERT, SEX HHH BECOMES MALE"
    IMPUTE P02(1)=1
  END-IF
END-IF

IF P04=3 AND P04(1)=1:2 AND P02=P02(1)
  IF P02=2 AND P22A=BLANK AND P22B=BLANK AND P22A(1)<>BLANK AND P22B(1)<>BLANK
    MSG "*" IF SP FEMALE WITHOUT FERT, AND HHH WITH FERT, SP. BECOMES MALE"
    IMPUTE P02=1
  END-IF
END-IF

```

END-IF

```
IF P04=3 AND P04(1)=1:2 AND P02=P02(1)
  MSG "*" IF FERT. OF BOTH CANNOT BE USED, RELATIONSHIP SPOUSE BECOMES N/R"
  IMPUTE P04=BLANK
END-IF
```

END-SUBR SRP02

SUBROUTINE SRP03

```
IF P03<>VALID AND P03<>NR
  MSG "CODE P03 NOT VALID"
  MSG "# P03 BECOMES NOT REPORTED"
  IMPUTE P03=BLANK
END-IF
```

```
IF P03=NR
  MSG "P03 NOT REPORTED"
END-IF
```

```
IF P04=3
  IF P02=2 AND P03<>BLANK AND P03<12
    MSG "=> FEMALE SPOUSE IS LESS THAN 12"
    MSG "*" RELATIONSHIP TO HHH BECOMES N/R"
    IMPUTE P04=BLANK
  END-IF
  IF P02=1 AND P03<>BLANK AND P03<15
    MSG "=> MALE SPOUSE IS LESS THAN 15"
    MSG "*" RELATIONSHIP TO HHH BECOMES N/R"
    IMPUTE P04=BLANK
```

```
  END-IF
END-IF
```

```
IF P04=4 AND P03<>BLANK AND P03>75
  MSG "=> SON/DAUGHTER HHH IS OVER 75"
  MSG "*" RELATIONSHIP TO HHH BECOMES OTHER RELATIVE"
  IMPUTE P04=16
END-IF
```

```
IF P04=5 AND P03<>BLANK AND P03>60
  MSG "=> GRAND CHILD (SON'S) IS OVER 60"
  MSG "*" RELATIONSHIP TO HHH BECOMES OTHER RELATIVE"
  IMPUTE P04=16
END-IF
```

```
IF P04=6 AND P03<>BLANK AND P03>63
  MSG "=> GRAND CHILD (DAUGHTER) IS OVER 63"
  MSG "*" RELATIONSHIP TO HHH BECOMES OTHER RELATIVE"
  IMPUTE P04=16
END-IF
```

```
IF P04=7
  IF P02=1 AND P03<>BLANK AND P03<31
    MSG "=> FATHER HHH IS LESS THAN 31"
    MSG "*" RELATIONSHIP TO HHH BECOMES OTHER RELATIVE"
    IMPUTE P04=16
  END-IF
```

```
  IF P02=2 AND P03<>BLANK AND P03<28
    MSG "=> MOTHER HHH IS LESS THAN 28"
    MSG "*" RELATIONSHIP TO HHH BECOMES OTHER RELATIVE"
```

```

        IMPUTE P04=16
    END-IF
END-IF

IF P04=8
    IF P02=1 AND P03<>BLANK AND P03<28
        MSG "=> MOTHER'S HUSBAND IS LESS THAN 28"
        MSG "* RELATIONSHIP TO HHH BECOMES OTHER RELATIVE"
        IMPUTE P04=16
    END-IF

    IF P02=2 AND P03<>BLANK AND P03<15
        MSG "=> FATHER'S WIFE IS LESS THAN 15"
        MSG "* RELATIONSHIP TO HHH BECOMES OTHER RELATIVE"
        IMPUTE P04=16
    END-IF
END-IF

IF P04=12 AND P03<>BLANK AND P03<39
    MSG "=> FATHER'S PARENT IS LESS THAN 39"
    MSG "* RELATIONSHIP TO HHH BECOMES OTHER RELATIVE"
    IMPUTE P04=16
END-IF

IF P04=13 AND P03<>BLANK AND P03<36
    MSG "=> MOTHER'S PARENT IS LESS THAN 36"
    MSG "* RELATIONSHIP TO HHH BECOMES OTHER RELATIVE"
    IMPUTE P04=16
END-IF

IF P03<>BLANK AND P03<=5 AND P11<>BLANK AND P11=0:60
    LET AGEINMON=P03*12
    IF P11>AGEINMON AND P10A<>0
        MSG "=> DURATION OF STAY GREATER THAN AGE"
        MSG "* DURATION OF STAY BECOMES AGE IN MONTHS + 6"
        IMPUTE P11=AGEINMON
    END-IF
END-IF

IF P19=3 AND P03<>BLANK AND P03<18
    MSG "=> MINOR IS EMPLOYER"
    MSG "* STATUS BECOMES N/R"
    IMPUTE P19=BLANK
END-IF

IF P02=2 AND P03<>BLANK AND P03>50
    AND (P23C<>0 OR P23D<>0 OR P23E<>0 OR P23F<>0)
    MSG "=> WOMEN OVER 50 WITH FERTILY IN THE LAST 12 MONTHS"
    IF P23C=1:3 OR P23D=1:3 AND P03=<55
        MSG"* AGE IS REDUCED BY 5 YEARS IF THAT RESOLVES THE PROBLEM"
        IMPUTE P03=P03 - 5
    ELSE
        MSG "* BIRTH WITHIN LAST 12 MONTHS ARE REMOVED"
        IMPUTE P23A=BLANK
        IMPUTE P23B=BLANK
        IMPUTE P23C=0
        IMPUTE P23D=0
        IMPUTE P23E=0
        IMPUTE P23F=0
    END-IF
END-IF

IF P22A<>BLANK AND P22B<>BLANK
    LET CHBA=P22A+P22B

```

```

END-IF

LET TYFLE=0
IF P13B<>NR AND P03<>BLANK AND P03>=3
  DO VARYING INDX FROM 1 BY 1 UNTIL INDX>37
    IF P13b=AGEBYLEV(INDX,1) AND P03<AGEBYLEV(INDX,2)
      MSG "=> TOO YOUNG FOR LEVEL OF EDUCATION ATTAINED"
      LET TYFLE=1
    END-IF
  END-DO
END-IF

IF TYFLE=1
  DO VARYING INDX FROM 1 BY 1 UNTIL INDX>15
    IF P13A=2 AND P03=LEVBYAGE(INDX,2)
      MSG "* MINIMUM LEVEL IS IMPUTED ACCORDING TO AGE FOR THOSE ATTENDING"
      IMPUTE P13B=LEVBYAGE(INDX,1)
      LET TYFLE=0
    END-IF
  END-DO
END-IF

IF TYFLE=1
  MSG "* LEVEL BECOMES N/R FOR THOSE NOT ATTENDING"
END-IF

LET TYFLE=0

IF P13B<>NR AND P03<>BLANK AND P03>=3 AND P13A=2
  DO VARYING INDX FROM 1 BY 1 UNTIL INDX>37
    IF P13b=AGEBYLEV(INDX,1) AND P03>AGEBYLEV(INDX,3)
      MSG "=> TOO OLD FOR LEVEL OF EDUCATION BEING ATTENDED"

.*****

    IF P13B=10:13
      MSG "SEC TECH BECOMES ATTENDED IN PAST AND P16A=NR"
      IMPUTE P13A=3
      IMPUTE P16A=BLANK
    END-IF
    IF P13B=01:06 AND P03=19:99
      MSG "PRIM OVER 18 BECOMES ATTENDED IN PAST AND P16A=NR"
      IMPUTE P13A=3
      IMPUTE P16A=BLANK
    END-IF
    IF P13B=07:09 AND P03=21:99
      MSG "MID/UP BASIC OVER 20 BECOMES ATTENDED IN PAST AND P16A=NR"
      IMPUTE P13A=3
      IMPUTE P16A=BLANK
    END-IF
    IF P13B=21:23 AND P03=26:99
      MSG "SEN SEC OVER 25 BECOMES ATTENDED IN PAST AND P16A=NR"
      IMPUTE P13A=3
      IMPUTE P16A=BLANK
    END-IF
    IF P13B=31:37 AND P03=26:99
      MSG "HIGH SCHOOL OVER 25 BECOMES ATTENDED IN PAST AND P16A=NR"
      IMPUTE P13A=3
      IMPUTE P16A=BLANK
    END-IF

.*****

    LET TYFLE=1
    IF P16A<>5

```

```

        MSG"* IF NOT STUDENT IN P16A, BECOMES ATTENDEND IN THE PAST"
        IMPUTE P13A=3
        LET TYFLE=0
    ELSE
        MSG "===> PROBLEM REMAINS UNSOLVED"
    END-IF
END-DO
END-IF

IF TYFLE=1 AND P13B<>NR AND P03<>BLANK AND P03>=3 AND P13A=2
    LET TESTAGE=P03-2
    DO VARYING INDX FROM 1 BY 1 UNTIL INDX>37
        IF P13b=AGEBYLEV(INDX,1) AND TESTAGE<=AGEBYLEV(INDX,3)
            MSG "*" PROBLEM RESOLVED BY DECREASING AGE BY 2"
            IMPUTE P03=TESTAGE
            LET TYFLE=0
        END-IF
    END-DO
END-IF

IF TYFLE=1
    MSG"* LEVEL ATTENDED BECOMES N/S"
    IMPUTE P13B=BLANK
END-IF

LET TMC=0
IF P22a<>BLANK AND P22b<>BLANK AND P03<>BLANK AND P03>=12 AND P02=2
    LET CHBA = P22a + P22b
    DO VARYING INDX FROM 1 BY 1 UNTIL INDX>15
        IF CHBA=AGMINCHD(INDX,1) AND P03<AGMINCHD(INDX,2)
            MSG "=> MOTHER TOO YOUNG FOR SO MANY CHILDREN"
            LET TMC=1
        END-IF
    END-DO
END-IF

IF TMC=1 AND P22A<>BLANK AND P22C<>BLANK AND P22E<>BLANK AND P22G<>BLANK
    AND P22B<>BLANK AND P22D<>BLANK AND P22F<>BLANK AND P22H<>BLANK
        LET CHBA=P22C+P22D+P22E+P22F+P22G+P22H
    DO VARYING INDX FROM 1 BY 1 UNTIL INDX>15
        IF CHBA=AGMINCHD(INDX,1) AND P03>=AGMINCHD(INDX,2)
            MSG "*" IF RECALCULATION CHILDREN RESOLVES PROBLEM, RECALCULATION IS USED"
            LET TMC=0
            IMPUTE P22A=P22C+P22E+P22G
            IMPUTE P22B=P22D+P22F+P22H
        END-IF
    END-DO
END-IF

IF TMC=1
    MSG"===> PROBLEM REMAINS UNSOLVED"
    IMPUTE P03=P03+5
    MSG "*" AGE IS INCREASED BY 5 YEARS"
END-IF

IF P04(1)=1:2 AND P04=4 AND P02(1)=1 AND P03(1)<>BLANK AND P03<>BLANK
    LET DIFFAGE=P03(1) - P03
    IF DIFFAGE<15
        MSG "=> DIFFERENCE OF AGE BETWEEN SON/DAUGHTER AND MALE HHH LESS THAN 15"
        MSG "*" RELATIONSHIP BECOMES OTHER RELATIVE"
        IMPUTE P04=16
    END-IF

```

END-IF

```
IF P04(1)=1:2 AND P04=4 AND P02(1)=2 AND P03(1)<>BLANK AND P03<>BLANK
LET DIFFAGE=P03(1) - P03
  IF DIFFAGE<12
    MSG "=> DIFFERENCE OF AGE BETWEEN SON/DAUGHTER AND FEMALE HHH LESS THAN 12"
    MSG "** RELATIONSHIP BECOMES OTHER RELATIVE"
    IMPUTE P04=16
  END-IF
END-IF
```

```
IF P04(1)=1:2 AND P04=7 AND P02=1 AND P03(1)<>BLANK AND P03<>BLANK
LET DIFFAGE=P03 - P03(1)
  IF DIFFAGE<15
    MSG "=> DIFFERENCE OF AGE BETWEEN FATHER AND HHH LESS THAN 15"
    MSG "** RELATIONSHIP BECOMES OTHER RELATIVE"
    IMPUTE P04=16
  END-IF
END-IF
```

```
IF P04(1)=1:2 AND P04=7 AND P02=2 AND P03(1)<>BLANK AND P03<>BLANK
LET DIFFAGE=P03 - P03(1)
  IF DIFFAGE<12
    MSG "=> DIFFERENCE OF AGE BETWEEN MOTHER AND HHH LESS THAN 12"
    MSG "** RELATIONSHIP BECOMES OTHER RELATIVE"
    IMPUTE P04=16
  END-IF
END-IF
```

END-SUBR SRP03

SUBROUTINE SRP04

```
IF P04<>VALID AND P04<>NR
  MSG "CODE P04 NOT VALID"
  MSG "# P04 BECOMES NOT REPORTED"
  IMPUTE P04=BLANK
END-IF
```

```
IF P04=NR
  MSG "P04 NOT REPORTED"
END-IF
```

```
IF P04=4 AND P08A<>1 AND P02(1)=1
  MSG "=> FATHER OF SON/DAUGHTER OF MALE HHH NOT ALIVE"
  MSG "** FATHER BECOMES ALIVE IN P08A"
  IMPUTE P08A=1
END-IF
```

```
IF P04=4 AND P08B<>1 AND P02(1)=2
  MSG "=> MOTHER OF SON/DAUGHTER OF FEMALE HHH NOT ALIVE"
  MSG "** MOTHER BECOMES ALIVE IN P08B"
  IMPUTE P08B=1
END-IF
```

```
IF P04=3 AND P20=1
  MSG "=> SPOUSE OF HHH IS SINGLE"
  IF P21<>BLANK
    MSG "** BECOMES MARRIED IF THERE IS A TYPE OF UNION"
    IMPUTE P20=2
  ELSE
    MSG "** RELATIONSHIP BECOMES N/R IF THERE IS NO TYPE OF UNION"
    IMPUTE P04=BLANK
  END-IF
```

END-IF

```
IF P04=8 AND P20=1
  MSG "=> MOTHER'S/FATHER'S SPOUSE IS SINGLE"
  IF P21<>BLANK
    MSG "* BECOMES MARRIED IF THERE IS A TYPE OF UNION"
    IMPUTE P20=2
  ELSE
    MSG "* RELATIONSHIP BECOMES N/R IF THERE IS NO TYPE OF UNION"
    IMPUTE P04=BLANK
  END-IF
END-IF
```

```
IF P04(1)=1:2 AND P04=3 AND P20(1)<>2
  MSG "=> SPOUSE MARRIED WITH HHH NOT MARRIED"
  IF P21(1)<>BLANK
    MSG "* HHH BECOMES MARRIED IF THERE IS A TYPE OF UNION"
    IMPUTE P20(1)=2
  ELSE
    MSG "* RELATIONSHIP BECOMES N/R IF THERE IS NO TYPE OF UNION"
    IMPUTE P04=BLANK
  END-IF
END-IF
```

```
IF P04(1)=1:2 AND P04=3 AND P21(1)<>P21 AND P20<>1 AND P20(1)<>1
  MSG "=> SPOUSE AND HHH DO NOT HAVE SAME TYPE OF UNION"
  IF P02(1)=1
    MSG "* TYPE OF UNION BECOME THE ONE REPORTED BY THE MALE HHH"
    IMPUTE P21=P21(1)
  ELSE
    MSG "* TYPE OF UNION BECOME THE ONE REPORTED BY THE MALE SPOUSE"
    IMPUTE P21(1)=P21
  END-IF
END-IF
```

```
LET NBSPOUSE=0
COUNT NBSPOUSE FOR P04=3
```

```
IF P00=1 AND P04=1:2 AND P02=2 AND NBSPOUSE>1
  MSG "=> FEMALE HHH CANNOT HAVE MORE THAN ONE SPOUSE IN HH"
  IF P22A(1)=BLANK AND P22B(1)=BLANK
    MSG "* HHH BECOMES MALE IF NO FERTILITY"
    IMPUTE P02(1)=1
  END-IF
END-IF
```

```
IF P00=1 AND P04=1:2 AND P02=2 AND NBSPOUSE>1
  FIND IND FOR P04=3
  FIND NEXT IND FOR P04=3
  IF IND<=TYPE-COUNT(POP) AND IND>=1
    IMPUTE P04(IND)=BLANK
    MSG "* FIRST MALE SPOUSE KEPT, SECOND BECOMES RELATIONSHIP N/R"
  END-IF
  FIND NEXT IND FOR P04=3
  IF IND<=TYPE-COUNT(POP) AND IND>=1
    IMPUTE P04(IND)=BLANK
    MSG "* FIRST MALE SPOUSE KEPT, THIRD BECOMES RELATIONSHIP N/R"
  END-IF
END-IF
```

```
IF P00=1 AND P04=1:2 AND P21=1:5 AND NBSPOUSE=1:5 AND NBSPOUSE>P21(1)
  MSG "=> NUMBER OF SPOUSES IN HH > NB OF SPOUSES IN TYPE OF UNION"
END-IF
```

END-SUBR SRP04

SUBROUTINE SRP05

```
IF P05<>VALID AND P05<>NR
  MSG "CODE P05 NOT VALID"
  MSG "# P05 BECOMES NOT REPORTED"
  IMPUTE P05 = BLANK
END-IF

IF P05=NR
  MSG "P05 NOT REPORTED"
END-IF

IF P05=BLANK AND P06<>BLANK
  IMPUTE P05=0
  MSG "# NATIONALITY BECOMES GAMBIAN IF THERE IS AN ETHNIC GROUP"
END-IF

IF P05=BLANK AND P09A=0 AND P10A=0
  MSG "# NATIONALITY BECOMES GAMBIAN IF BORN AND PREV. RESIDENCE SAME PLACE"
  IMPUTE P05=0
END-IF

IF P05=BLANK AND P04=4 AND P04(1)=1:2 AND P05(1)<>BLANK
  MSG "# IF SON/DAUGHTER OF HHH, NATIONALITY BECOMES SAME AS HHH"
  IMPUTE P05=P05(1)
END-IF

IF P05=BLANK AND P17=1 .ADD OTHER OCCUPATIONS LATER
  MSG "# NATIONALITY BECOMES GAMBIAN IF ARMY"
  IMPUTE P05=0
END-IF

IF P05=NR
  MSG "P05 REMAINS NOT REPORTED"
END-IF

END-SUBR SRP05
```

SUBROUTINE SRP06

```
IF P06<>VALID AND P06<>NR
  MSG "CODE P06 NOT VALID"
  MSG "# P06 BECOMES NOT REPORTED"
  IMPUTE P06 = BLANK
END-IF

IF P06=NR
  MSG "P06 NOT REPORTED"
END-IF

IF P06=BLANK AND P04=4 AND P02(1)=1 AND P04(1)=1:2 AND P06(1)<>BLANK
  IMPUTE P06=P06(1)
  MSG "# ETHNIC GROUP OF SON/DAUGHTER BECOMES SAME AS MALE HHH"
END-IF

IF P06=BLANK AND P04=7 AND P02=1 AND P04(1)=1:2 AND P06(1)<>BLANK
  IMPUTE P06=P06(1)
  MSG "# ETHNIC GROUP OF FATHER OF HHH BECOMES ETHNIC GROUP OF HHH"
END-IF

IF P06=NR
  MSG "P06 REMAINS NOT REPORTED"
END-IF
```


END-SUBR SRP06

SUBROUTINE SRP07

```
IF P07<>VALID AND P07<>NR
  MSG "CODE P07 NOT VALID"
  MSG "# P07 BECOMES NOT REPORTED"
  IMPUTE P07 = BLANK
END-IF
```

```
IF P07=NR
  MSG "P07 NOT REPORTED"
END-IF
```

```
IF P07=BLANK AND P05=0
  IMPUTE P07=1
  MSG "# RELIGION OF GAMBIANS BECOMES MUSLIM"
END-IF
```

```
IF P07=NR
  MSG "P07 REMAINS NOT REPORTED"
END-IF
```

END-SUBR SRP07

SUBROUTINE SRP08a

```
IF P08a<>VALID AND P08a<>NR
  MSG "CODE P08a NOT VALID"
  MSG "# P08a BECOMES NOT REPORTED"
  IMPUTE P08a = BLANK
END-IF
```

```
IF P08a=NR
  MSG "P08a NOT REPORTED"
END-IF
```

```
IF P08A=BLANK AND P04=4 AND P02(1)=1 AND P04(1)=1:2
  IMPUTE P08A=1
  MSG "# SON/DAUGHTER OF MALE HHH HAS HER FATHER STILL ALIVE"
END-IF
```

```
IF P08a=NR
  MSG "P08a REMAINS NOT REPORTED"
END-IF
```

END-SUBR SRP08a

SUBROUTINE SRP08b

```
IF P08b<>VALID AND P08b<>NR
  MSG "CODE P08b NOT VALID"
  MSG "# P08b BECOMES NOT REPORTED"
  IMPUTE P08b = BLANK
END-IF
```

```
IF P08b=NR
  MSG "P08b NOT REPORTED"
END-IF
```

```
IF P08B=BLANK AND P04=4 AND P02(1)=2 AND P04(1)=1:2
  IMPUTE P08B=1
  MSG "# SON/DAUGHTER OF FEMALE HHH HAS HER MOTHER STILL ALIVE"
```

END-IF

IF P08a=NR

MSG "P08B REMAINS NOT REPORTED"

END-IF

END-SUBR SRP08b

SUBROUTINE SRP09

IF P09a<>VALID AND P09a<>NR

MSG "CODE P09a NOT VALID"

MSG "# P09a BECOMES NOT REPORTED"

IMPUTE P09a = BLANK

END-IF

IF P09a=NR

MSG "P09a NOT REPORTED"

END-IF

IF P09A=BLANK AND P10A=0

IMPUTE P09A=0

MSG "# PLACE OF BIRTH SAME PLACE IF PREVIOUS RESIDENCE SAME PLACE"

END-IF

IF P09a=NR

MSG "P09a REMAINS NOT REPORTED"

END-IF

IF P09b<>VALID AND P09b<>NR

MSG "CODE P09b NOT VALID"

MSG "# P09b BECOMES NOT REPORTED"

IMPUTE P09b = BLANK

END-IF

IF P09b=NR AND P09A<>0 AND P09A<>13:19 AND P09A<>21

MSG "P09b NOT REPORTED"

END-IF

END-SUBR SRP09

SUBROUTINE SRP10

IF P10a<>VALID AND P10a<>NR

MSG "CODE P10a NOT VALID"

MSG "# P10a BECOMES NOT REPORTED"

IMPUTE P10a = BLANK

END-IF

IF P10a=NR

MSG "P10a NOT REPORTED"

END-IF

IF P10A=BLANK AND P10B=BLANK AND P11=BLANK AND P09A=0

IMPUTE P10A=0

MSG "# BECOMES SAME PLACE IF NO URB/RUR,NO DURATION AND SAME BIRTH PLACE"

END-IF

IF P10a=NR

MSG "P10a REMAINS NOT REPORTED"

END-IF

IF P10b<>VALID AND P10b<>NR

```
      MSG "CODE P10b NOT VALID"
      MSG "# P10b BECOMES NOT REPORTED"
      IMPUTE P10b = BLANK
END-IF

IF P10b=NR AND P10A<>0 AND P10A<>13:19 AND P10A<>21
      MSG "P10b NOT REPORTED"
END-IF

END-SUBR SRP10
```

```
SUBROUTINE SRP11
```

```
IF P11<>VALID AND P11<>NR
      MSG "CODE P11 NOT VALID"
      MSG "# P11 BECOMES NOT REPORTED"
      IMPUTE P11 = BLANK
END-IF
```

```
IF P11=NR
      MSG "P11 NOT REPORTED"
END-IF
```

```
END-SUBR SRP11
```

```
SUBROUTINE SRP12A
```

```
IF P12A<>VALID AND P12A<>NR
      MSG "CODE P12A NOT VALID"
      MSG "# P12A BECOMES NOT REPORTED"
      IMPUTE P12A = BLANK
END-IF
```

```
IF P12A=NR
      MSG "P12A NOT REPORTED"
END-IF
```

```
IF P12A=BLANK AND P12B=0
      IMPUTE P12A=0
      MSG "# IF NO SECOND DISABILITY, NO FIRST ONE"
END-IF
```

```
IF P12A=NR
      MSG "P12A REMAINS NOT REPORTED"
END-IF
```

```
END-SUBR SRP12A
```

```
SUBROUTINE SRP12B
```

```
IF P12B<>VALID AND P12B<>BLANK
      MSG "CODE P12B NOT VALID"
      MSG "# P12B BECOMES NOT REPORTED"
      IMPUTE P12B = BLANK
END-IF
```

```
IF P12B=BLANK
      MSG "P12B NOT REPORTED"
END-IF
```

```
IF P12B=BLANK AND P12A=0
      IMPUTE P12B=0
```

```
MSG "# IF NO FIRST DISABILITY, NO SECOND ONE"
END-IF
```

```
IF P12B=NR
MSG "P12B REMAINS NOT REPORTED"
END-IF
```

```
END-SUBR SRP12B
```

```
SUBROUTINE SRP13a
```

```
IF P13a<>VALID AND P13a<>NR
MSG "CODE P13a NOT VALID"
MSG "# P13a BECOMES NOT REPORTED"
IMPUTE P13a = BLANK
END-IF
```

```
IF P13a=NR
MSG "P13a NOT REPORTED"
END-IF
```

```
IF P13A=BLANK AND P16A=5
IMPUTE P13A=2
MSG "# BECOMES ATTENDING NOW IF STUDENT IN P16A"
END-IF
```

```
IF P13A=BLANK AND P13B<>BLANK AND P15A<>5
IMPUTE P13A=3
MSG "# BECOMES ATTENDING IN THE PAST IF THERE IS A LEVEL AND NOT STUDENT"
END-IF
```

```
IF P13a=NR
MSG "P13a REMAINS NOT REPORTED"
END-IF
```

```
IF P13A=2 AND P16A<>5 AND P03<>BLANK AND P03>=7
MSG "=> ATTENDING SCHOOL IS NOT A STUDENT"
IF P16A=BLANK AND P13B<>BLANK AND P03<30
MSG "* BECOMES STUDENT IF P16A WAS N/R AND P13B IS REPORTED AND AGE<30"
IMPUTE P16A=5
END-IF
END-IF
```

```
IF P13A=2 AND P16A<>5 AND P03<>BLANK AND P03>=7
IF P13B<>BLANK AND P16D<>BLANK AND P16D<>0
MSG "* BECOMES ATTENDED IN PAST IF DAYS WORKED IN P16D AND EXISTING LEVEL"
IMPUTE P13A=3
END-IF
END-IF
```

```
IF P13A=2 AND P16A<>5 AND P03<>BLANK AND P03>=7
IF P13B=BLANK AND P16D<>BLANK AND P16D<>0
MSG "* BECOMES NEVER ATTENDED IF DAYS WORKED IN P16D AND NO LEVEL"
IMPUTE P13A=1
END-IF
END-IF
```

```
IF P13A=2 AND P16A<>5 AND P03<>BLANK AND P03>=7
MSG "* P13A BECOMES N/R IF NOT WORKED IN P16D"
IMPUTE P13A=BLANK
END-IF
```

```
IF P16A=5 AND P13A<>2
```

```
      MSG "=> STUDENT IS NOT ATTENDING SCHOOL"  
END-IF
```

```
END-SUBR SRP13a
```

```
SUBROUTINE SRP13b
```

```
IF P13b<>VALID AND P13b<>NR  
  MSG "CODE P13b NOT VALID"  
  MSG "# P13b BECOMES NOT REPORTED"  
  IMPUTE P13b = BLANK  
END-IF
```

```
IF P13b=NR  
  MSG "P13b NOT REPORTED"  
END-IF
```

```
END-SUBR SRP13b
```

```
SUBROUTINE SRP14a
```

```
IF P14a<>VALID AND P14a<>NR  
  MSG "CODE P14a NOT VALID"  
  MSG "# P14a BECOMES NOT REPORTED"  
  IMPUTE P14a = BLANK  
END-IF
```

```
IF P14a=NR  
  MSG "P14a NOT REPORTED"  
END-IF
```

```
IF P14A=BLANK AND P13B<>BLANK AND P13B>=7 AND P13B<=80  
  IMPUTE P14A=1  
  MSG "# CAN READ/WRITE IF HAS ATTENDED MINIMUM LEVEL OF EDUCATION"  
END-IF
```

```
IF P14a=NR  
  MSG "P14a REMAINS NOT REPORTED"  
END-IF
```

```
END-SUBR SRP14A
```

```
SUBROUTINE SRP14B
```

```
IF P14b<>VALID AND P14b<>NR  
  MSG "CODE P14b NOT VALID"  
  MSG "# P14b BECOMES NOT REPORTED"  
  IMPUTE P14b = BLANK  
END-IF
```

```
IF P14b=NR  
  MSG "P14b NOT REPORTED"  
END-IF
```

```
IF P14B=BLANK AND P14A=1  
  IMPUTE P14B=2  
  MSG "# IF CAN READ AND WRITE, SCRIPT BECOMES ROMAN"  
END-IF
```

```
IF P14b=NR  
  MSG "P14b REMAINS NOT REPORTED"  
END-IF
```

END-SUBR SRP14b

SUBROUTINE SRP15a

```
IF P15a<>VALID AND P15a<>NR
  MSG "CODE P15a NOT VALID"
  MSG "# P15a BECOMES NOT REPORTED"
  IMPUTE P15a = BLANK
END-IF
```

```
IF P15a=NR
  MSG "P15a NOT REPORTED"
END-IF
```

END-SUBR SRP15A

SUBROUTINE SRP15B

```
IF P15b<>VALID AND P15b<>NR
  MSG "CODE P15b NOT VALID"
  MSG "# P15b BECOMES NOT REPORTED"
  IMPUTE P15b = BLANK
END-IF
```

```
IF P15b=NR
  MSG "P15b NOT REPORTED"
END-IF
```

END-SUBR SRP15b

SUBROUTINE SRP15C

```
IF P15C<>VALID AND P15C<>NR
  MSG "CODE P15C NOT VALID"
  MSG "# P15C BECOMES NOT REPORTED"
  IMPUTE P15C = BLANK
END-IF
```

```
IF P15C=NR
  MSG "P15C NOT REPORTED"
END-IF
```

END-SUBR SRP15C

SUBROUTINE SRP16a

```
IF P16a<>VALID AND P16a<>NR
  MSG "CODE P16a NOT VALID"
  MSG "# P16A BECOMES NOT REPORTED"
  IMPUTE P16a = BLANK
END-IF
```

```
IF P16a=NR
  MSG "P16a NOT REPORTED"
END-IF
```

```
IF P16A=BLANK AND P13A=2
  IMPUTE P16A=5
  MSG "# P16A BECOMES STUDENT IF ATTENDING SCHOOL NOW"
END-IF
```

IF P16A=BLANK AND P16D<>BLANK AND P16D>0

```

        IMPUTE P16A=1
        MSG "# P16A BECOMES WORKING IF NUMBER OF DAYS WORKED > 0"
END-IF

IF P16A=BLANK AND P16B=BLANK AND P16C=BLANK AND P16D=BLANK AND P17<>BLANK
    IMPUTE P16A=2
    MSG "# P16A BECOMES 2 IF P16B=NA AND P16C=NA AND P16D=NA AND P17<>NA"
END-IF

IF P16A=BLANK AND P16B=1 AND P16D<>BLANK AND P16D>0
    IMPUTE P16A=4
    MSG "# P16A BECOMES 4 IF P16B=1 AND P16D<>BLANK AND P16D>0"
END-IF

IF P16A=BLANK AND P16C=1:2 AND P16B=BLANK AND P16D=BLANK
    IMPUTE P16A=3
    MSG "# P16A BECOMES 3 IF P16C=1:2 AND P16B=BLANK AND P16D=BLANK"
END-IF

IF P16a=NR
    MSG "P16a REMAINS NOT REPORTED"
END-IF

IF P16A=1 AND P16D=0
    MSG "=> WORKING WORKED ZERO DAYS"
END-IF

IF P16A=3 AND P16D<>BLANK
    MSG "=> DID NOT WORK BUT NUMBER OF DAYS WORK <> BLANK"
    IMPUTE P16D=BLANK
    MSG "* NUMBER OF DAYS WORKED BECOMES NA"
END-IF

IF P16A=4 AND P16B=1 AND p16d<>blank and P16D=0
    MSG "=> HOME MAKING WAS WORKING FOR PAY BUT ZERO NUMBERS OF DAYS"
    IMPUTE P16D=BLANK
    MSG "* NUMBER OF DAYS WORKED BECOMES NA"
END-IF

IF P16A=4 AND P16B=2 AND P16D<>BLANK
    MSG "=> HOME MAKING NOT WORKING WITH NUMBERS OF DAYS INDICATED"
    IMPUTE P16D=BLANK
    MSG "* NUMBER OF DAYS WORKED BECOMES NA"
END-IF

IF P16A=6 AND P16B=1 AND P16D=0
    MSG "=> ELSE ACTUALLY WORKING FOR PAY BUT ZERO NUMBER OF DAYS"
    IMPUTE P16D=BLANK
    MSG "* NUMBER OF DAYS WORKED BECOMES NA"
END-IF

IF P16A=6 AND P16B=2 AND P16D<>BLANK
    MSG "=> ELSE NOT WORKING WITH NUMBER OF DAYS INDICATED"
    IMPUTE P16D=BLANK
    MSG "* NUMBER OF DAYS WORKED BECOMES NA"
END-IF

END-SUBR SRP16a

SUBROUTINE SRP16B

IF P16B<>VALID AND P16B<>NR
    MSG "CODE P16B NOT VALID"
    MSG "# P16B BECOMES NOT REPORTED"

```

```
      IMPUTE P16B = BLANK  
END-IF
```

```
IF P16B=NR  
  MSG "P16B NOT REPORTED"  
END-IF
```

```
IF P16B=BLANK AND P16A=4 AND P16D<>BLANK AND P16D>0  
  IMPUTE P16B=1  
  MSG "# P16B BECOMES 1 IF P16A=4 AND P16D<>BLANK AND P16D>0"  
END-IF
```

```
IF P16B=NR  
  MSG "P16B REMAINS NOT REPORTED"  
END-IF
```

```
END-SUBR SRP16B
```

```
SUBROUTINE SRP16C
```

```
IF P16C<>VALID AND P16C<>NR  
  MSG "CODE P16C NOT VALID"  
  MSG "# P16C BECOMES NOT REPORTED"  
  IMPUTE P16C = BLANK  
END-IF
```

```
IF P16C=NR  
  MSG "P16C NOT REPORTED"  
END-IF
```

```
END-SUBR SRP16C
```

```
SUBROUTINE SRP16D
```

```
IF P16D<>VALID AND P16D<>NR  
  MSG "CODE P16D NOT VALID"  
  MSG "# P16D BECOMES NOT REPORTED"  
  IMPUTE P16D = BLANK  
END-IF
```

```
IF P16D=NR  
  MSG "P16D NOT REPORTED"  
END-IF
```

```
IF P16D=BLANK AND P16A=1 AND P16B=BLANK AND P16C=BLANK AND P17<>BLANK  
  IMPUTE P16D=30  
  MSG "# P16D BECOMES 30 IF P16A=1 AND P16B=NA AND P16C=NA AND P17<>BLANK"  
END-IF
```

```
IF P16D=NR  
  MSG "P16D REMAINS NOT REPORTED"  
END-IF
```

```
END-SUBR SRP16D
```

```
SUBROUTINE SRP17
```

```
IF P17<>VALID AND P17<>NR  
  MSG "CODE P17 NOT VALID"  
  MSG "# P17 BECOMES NOT REPORTED"  
  IMPUTE P17 = BLANK  
END-IF
```



```
IF P17=NR
  MSG "P17 NOT REPORTED"
END-IF
```

```
END-SUBR SRP17
```

```
SUBROUTINE SRP18b
```

```
IF P18b<>VALID AND P18b<>NR
  MSG "CODE P18b NOT VALID"
  MSG "# P18b BECOMES NOT REPORTED"
  IMPUTE P18b = BLANK
END-IF
```

```
IF P18b=NR
  MSG "P18b NOT REPORTED"
END-IF
```

```
END-SUBR SRP18b
```

```
SUBROUTINE SRP19
```

```
IF P19<>VALID AND P19<>NR
  MSG "CODE P19 NOT VALID"
  MSG "# P19 BECOMES NOT REPORTED"
  IMPUTE P19 = BLANK
END-IF
```

```
IF P19=NR
  MSG "P19 NOT REPORTED"
END-IF
```

```
END-SUBR SRP19
```

```
SUBROUTINE SRP20
```

```
IF P20<>VALID AND P20<>NR
  MSG "CODE P20 NOT VALID"
  MSG "# P20 BECOMES NOT REPORTED"
  IMPUTE P20 = BLANK
END-IF
```

```
IF P20=NR
  MSG "P20 NOT REPORTED"
END-IF
```

```
IF P20=BLANK AND P04=3 AND P03<>BLANK AND P03>=12
  IMPUTE P20=2
  MSG "# SPOUSE BECOMES MARRIED"
END-IF
```

```
LET NBSPOUSE=0
COUNT NBSPOUSE FOR P04=3
IF P20=BLANK AND P00=1 AND P04=1:2 AND NBSPOUSE>0 AND P03<>BLANK AND P03>=12
  IMPUTE P20=1
  MSG "# HHH BECOMES MARRIED IF ANY SPOUSE IN THE HH"
END-IF
```

```
IF P20=NR
  MSG "P20 REMAINS NOT REPORTED"
END-IF
```

END-SUBR SRP20

SUBROUTINE SRP21

```
IF P21<>VALID AND P21<>NR
  MSG "CODE P21 NOT VALID"
  MSG "# P21 BECOMES NOT REPORTED"
  IMPUTE P21 = BLANK
END-IF
```

```
IF P21=NR
  MSG "P21 NOT REPORTED"
END-IF
```

```
IF P21=BLANK AND P04=3 AND P04(1)=1:2 AND P21(1)=1:5
  IMPUTE P21=P21(1)
  MSG "# FOR SPOUSE TYPE OF UNION BECOMES TYPE OF UNION HHH"
END-IF
```

```
LET IND=0
FIND IND FOR P04=3
IF IND<>0
  IF P21=BLANK AND P21(IND)=1:5 AND P00=1 AND P04(1)=1:2
    IMPUTE P21(1)=P21(IND)
    MSG "# TYPE OF UNION HHH BECOME TYPE OF UNION FIRST SPOUSE FOUND IN HH"
  END-IF
END-IF
```

```
IF P21=BLANK AND P02=1 AND P03<>BLANK AND P03<20
  IMPUTE P21=1
  MSG "# TYPE OF UNION OF MALE UNDER 20 BECOMES MONOGAMOUS"
END-IF
```

```
IF P21=NR
  MSG "P21 REMAINS NOT REPORTED"
END-IF
```

END-SUBR SRP21

SUBROUTINE SRP22

```
IF P22a<>VALID AND P22a<>BLANK
  MSG "CODE P22a NOT VALID"
  MSG "# P22a BECOMES NOT REPORTED"
  IMPUTE P22a=BLANK
end-IF
```

```
IF P22a=BLANK
  MSG "P22a NOT REPORTED"
  IF P13A=2 OR (P03<=15 AND P20=1)
    IMPUTE P22A=0
    MSG "* BECOMES ZERO FOR THOSE ATTENDING SCHOOL OR NOT MARRIED <= 15"
  end-IF
end-IF
```

```
IF P22b<>VALID AND P22b<>BLANK
  MSG "CODE P22b NOT VALID"
  MSG "# P22b BECOMES NOT REPORTED"
  IMPUTE P22b=BLANK
end-IF
```

```
IF P22b=BLANK
  MSG "P22b NOT REPORTED"
  IF P13A=2 OR (P03<=15 AND P20=1)
```

```

    IMPUTE P22B=0
    MSG "*" BECOMES ZERO FOR THOSE ATTENDING SCHOOL OR NOT MARRIED <= 15"
    end-IF
end-IF

IF P22c<>VALID AND P22c<>BLANK
    MSG "CODE P22c NOT VALID"
    MSG "# P22c BECOMES NOT REPORTED"
    IMPUTE P22c=BLANK
end-IF

IF P22c=BLANK
    MSG "P22c NOT REPORTED"
    IF P13A=2 OR (P03<=15 AND P20=1)
        IMPUTE P22C=0
    MSG "*" BECOMES ZERO FOR THOSE ATTENDING SCHOOL OR NOT MARRIED <= 15"
    end-IF
end-IF

IF P22d<>VALID AND P22d<>BLANK
    MSG "CODE P22d NOT VALID"
    MSG "# P22d BECOMES NOT REPORTED"
    IMPUTE P22d=BLANK
end-IF

IF P22d=BLANK
    MSG "P22d NOT REPORTED"
    IF P13A=2 OR (P03<=15 AND P20=1)
        IMPUTE P22D=0
    MSG "*" BECOMES ZERO FOR THOSE ATTENDING SCHOOL OR NOT MARRIED <= 15"
    end-IF
end-IF

IF P22e<>VALID AND P22e<>BLANK
    MSG "CODE P22e NOT VALID"
    MSG "# P22e BECOMES NOT REPORTED"
    IMPUTE P22e=BLANK
end-IF

IF P22e=BLANK
    MSG "P22e NOT REPORTED"
    IF P13A=2 OR (P03<=15 AND P20=1)
        IMPUTE P22E=0
    MSG "*" BECOMES ZERO FOR THOSE ATTENDING SCHOOL OR NOT MARRIED <= 15"
    end-IF
end-IF

IF P22f<>VALID AND P22f<>BLANK
    MSG "CODE P22f NOT VALID"
    MSG "# P22f BECOMES NOT REPORTED"
    IMPUTE P22f=BLANK
end-IF

IF P22f=BLANK
    MSG "P22f NOT REPORTED"
    IF P13A=2 OR (P03<=15 AND P20=1)
        IMPUTE P22F=0
    MSG "*" BECOMES ZERO FOR THOSE ATTENDING SCHOOL OR NOT MARRIED <= 15"
    end-IF
end-IF

IF P22G<>VALID AND P22G<>BLANK
    MSG "CODE P22G NOT VALID"
    MSG "# P22G BECOMES NOT REPORTED"
    IMPUTE P22G=BLANK
end-IF

```

```
IF P22G=BLANK
  MSG "P22G NOT REPORTED"
  IF P13A=2 OR (P03<=15 AND P20=1)
    IMPUTE P22G=0
    MSG "*" BECOMES ZERO FOR THOSE ATTENDING SCHOOL OR NOT MARRIED <= 15"
  end-IF
end-IF
```

```
IF P22H<>VALID AND P22H<>BLANK
  MSG "CODE P22H NOT VALID"
  MSG "# P22H BECOMES NOT REPORTED"
  IMPUTE P22H=BLANK
end-IF
```

```
IF P22H=BLANK
  MSG "P22H NOT REPORTED"
  IF P13A=2 OR (P03<=15 AND P20=1)
    IMPUTE P22H=0
    MSG "*" BECOMES ZERO FOR THOSE ATTENDING SCHOOL OR NOT MARRIED <= 15"
  END-IF
end-IF
```

```
IF P22A=BLANK AND P22C<>BLANK AND P22E<>BLANK AND P22G<>BLANK
  LET P22A=P22C+P22E+P22G
  MSG "# P22A BECOMES THE SUM OF P22C+P22E+P22G"
END-IF
```

```
IF P22B=BLANK AND P22D<>BLANK AND P22F<>BLANK AND P22H<>BLANK
  LET P22B=P22D+P22F+P22H
  MSG "# P22B BECOMES THE SUM OF P22D+P22F+P22H"
END-IF
```

```
IF P22C=BLANK AND P22A<>BLANK AND P22E<>BLANK AND P22G<>BLANK
  LET NBCHILD=P22A - P22E - P22G
  IF NBCHILD>=0
    LET P22C=NBCHILD
    MSG "# P22C BECOMES THE DIFFERENCE OF P22A - P22E - P22G"
  END-IF
END-IF
```

```
IF P22D=BLANK AND P22B<>BLANK AND P22F<>BLANK AND P22H<>BLANK
  LET NBCHILD=P22B - P22F - P22H
  IF NBCHILD>=0
    LET P22D=NBCHILD
    MSG "# P22D BECOMES THE SUM OF P22B - P22F - P22H"
  END-IF
END-IF
```

```
IF P22E=BLANK AND P22A<>BLANK AND P22C<>BLANK AND P22G<>BLANK
  LET NBCHILD=P22A - P22C - P22G
  IF NBCHILD>=0
    LET P22E=NBCHILD
    MSG "# P22E BECOMES THE DIFFERENCE OF P22A - P22C - P22G"
  END-IF
END-IF
```

```
IF P22F=BLANK AND P22B<>BLANK AND P22D<>BLANK AND P22H<>BLANK
  LET NBCHILD=P22B - P22D - P22H
  IF NBCHILD>=0
    LET P22F=NBCHILD
    MSG "# P22F BECOMES THE SUM OF P22B - P22D - P22H"
  END-IF
END-IF
```

```
IF P22G=BLANK AND P22A<>BLANK AND P22C<>BLANK AND P22E<>BLANK
```

```

    LET NBCHILD=P22A - P22C - P22E
    IF NBCHILD>=0
        LET P22G=NBCHILD
        MSG "# P22G BECOMES THE DIFFERENCE OF P22A - P22C - P22E"
    END-IF
END-IF

IF P22H=BLANK AND P22B<>BLANK AND P22D<>BLANK AND P22F<>BLANK
    LET NBCHILD=P22B - P22D - P22F
    IF NBCHILD>=0
        LET P22H=NBCHILD
        MSG "# P22H BECOMES THE SUM OF P22B - P22D - P22F"
    END-IF
END-IF

IF P22A=BLANK
    MSG "P22A REMAINS NOT REPORTED"
end-IF

IF P22B=BLANK
    MSG "P22B REMAINS NOT REPORTED"
end-IF

IF P22C=BLANK
    MSG "P22C REMAINS NOT REPORTED"
end-IF

IF P22D=BLANK
    MSG "P22D REMAINS NOT REPORTED"
end-IF

IF P22E=BLANK
    MSG "P22E REMAINS NOT REPORTED"
end-IF

IF P22F=BLANK
    MSG "P22F REMAINS NOT REPORTED"
end-IF

IF P22G=BLANK
    MSG "P22G REMAINS NOT REPORTED"
end-IF

IF P22H=BLANK
    MSG "P22H REMAINS NOT REPORTED"
end-IF

IF P22A<>BLANK AND P22C<>BLANK AND P22E<>BLANK AND P22G<>BLANK
    LET CHBA=P22C+P22E+P22G
    IF P22A<>CHBA
        MSG "=> NUMBER MALE CHILDREN BORN ALIVE <> LIVING IN HH+ELSEWHERE+DEAD"
        IMPUTE P22A=CHBA
        MSG "** NUMBER MALE CHILDREN BECOMES SUM OF CHILDREN"
    END-IF
END-IF

IF P22B<>BLANK AND P22D<>BLANK AND P22F<>BLANK AND P22H<>BLANK
    LET CHBA=P22D+P22F+P22H
    IF P22B<>CHBA
        MSG "=> NUMBER FEMALE CHILDREN BORN ALIVE<>LIVING IN HH+ELSEWHERE+DEAD"
        IMPUTE P22B=CHBA
        MSG "** NUMBER FEMALE CHILDREN BECOMES SUM OF CHILDREN"
    END-IF
END-IF

```

```

IF P22A<>BLANK AND P22C<>BLANK AND P22A<P22C
  MSG "=> NUMBER MALE CHILDREN BORN ALIVE < LIVING IN HH"
END-IF

IF P22B<>BLANK AND P22D<>BLANK AND P22B<P22D
  MSG "=> NUMBER FEMALE CHILDREN BORN ALIVE < LIVING IN HH"
END-IF

IF P22A<>BLANK AND P22E<>BLANK AND P22A<P22E
  MSG "=> NUMBER MALE CHILDREN BORN ALIVE < LIVING ELSEWHERE"
END-IF

IF P22B<>BLANK AND P22F<>BLANK AND P22B<P22F
  MSG "=> NUMBER FEMALE CHILDREN BORN ALIVE < LIVING ELSEWHERE"
END-IF

IF P22A<>BLANK AND P22G<>BLANK AND P22A<P22G
  MSG "=> NUMBER MALE CHILDREN BORN ALIVE < NUMBER DEAD"
END-IF

IF P22B<>BLANK AND P22H<>BLANK AND P22B<P22H
  MSG "=> NUMBER FEMALE CHILDREN BORN ALIVE < NUMBER DEAD"
END-IF

IF P22A<>BLANK AND P23C<>BLANK AND P23C>P22A
  MSG "=> NUMBER MALE CHILDREN BORN LAST 12 MONTHS > TOTAL MALE BORN ALIVE"
  IMPUTE P23C=P22A
  MSG "*" NUMBER OF MALE CHILDREN REDUCED TO TOTAL MALE BORN ALIVE"
END-IF

IF P22B<>BLANK AND P23D<>BLANK AND P23D>P22B
  MSG "=> NUMBER FEMALE CHILDREN BORN LAST 12 MONTHS > TOTAL MALE BORN ALIVE"
  IMPUTE P23D=P22B
  MSG "*" NUMBER OF FEMALE CHILDREN REDUCED TO TOTAL FEMALE BORN ALIVE"
END-IF

IF P22C<>BLANK AND P22E<>BLANK AND P23E<>BLANK
  LET CHBA=P22C+P22E
  IF CHBA<P23E
    MSG "=> NUMBER MALE 12 LAST MONTHS STILL ALIVE < TOTAL NUMBER ALIVE"
    IMPUTE P23E=1
    IMPUTE P22C=1
    MSG "*" NUMBER OF MALE CHILDREN REDUCED TO ONE"
  END-IF
END-IF

IF P22D<>BLANK AND P22F<>BLANK AND P23F<>BLANK
  LET CHBA=P22D+P22F
  IF CHBA<P23F
    MSG "=> NUMBER FEMALE 12 LAST MONTHS STILL ALIVE < TOTAL NUMBER ALIVE"
    IMPUTE P23F=1
    IMPUTE P22D=1
    MSG "*" NUMBER OF FEMALE CHILDREN REDUCED TO ONE"
  END-IF
END-IF

END-SUBROUTINE SRP22

SUBROUTINE SRP23

IF P23A<>VALID AND P23A<>BLANK
  MSG "CODE P23A NOT VALID"
  MSG "# P23A BECOMES NOT REPORTED"
  IMPUTE P23A=BLANK

```

end-IF

IF P23A=BLANK
MSG "P23A NOT REPORTED"
end-IF

IF P23B<>VALID AND P23B<>BLANK
MSG "CODE P23B NOT VALID"
MSG "# P23B BECOMES NOT REPORTED"
IMPUTE P23B=BLANK
end-IF

IF P23B=BLANK
MSG "P23B NOT REPORTED"
end-IF

IF P23A=2 AND P23B<>BLANK AND P23B<4
MSG "=> BIRTH LAST 12 MONTH PRIOR TO APRIL 2002"
IMPUTE P23A=BLANK
IMPUTE P23B=BLANK
MSG "* DATES OF LAST BIRTH BECOME NR"
END-IF

IF P23A=3 AND P23B<>BLANK AND P23B>4
MSG "=> BIRTH LAST 12 MONTH AFTER APRIL 2003"
END-IF

IF P23c<>VALID AND P23c<>BLANK
MSG "CODE P23c NOT VALID"
MSG "# P23c BECOMES NOT REPORTED"
IMPUTE P23c=BLANK
end-IF

IF P23c=BLANK
MSG "P23c NOT REPORTED"
end-IF

IF P23d<>VALID AND P23d<>BLANK
MSG "CODE P23d NOT VALID"
MSG "# P23d BECOMES NOT REPORTED"
IMPUTE P23d=BLANK
end-IF

IF P23d=BLANK
MSG "P23d NOT REPORTED"
end-IF

IF P23e<>VALID AND P23e<>BLANK
MSG "CODE P23e NOT VALID"
MSG "# P23e BECOMES NOT REPORTED"
IMPUTE P23e=BLANK
end-IF

IF P23e=BLANK
MSG "P23e NOT REPORTED"
end-IF

IF P23f<>VALID AND P23f<>BLANK
MSG "CODE P23f NOT VALID"
MSG "# P23f BECOMES NOT REPORTED"
IMPUTE P23f=BLANK
end-IF

IF P23f=BLANK
MSG "P23f NOT REPORTED"
end-IF

```

IF P23C=BLANK AND P23E=1:2
  IMPUTE P23C=P23E
  MSG "# P23C BECOMES P23E"
END-IF

IF P23D=BLANK AND P23F=1:2
  IMPUTE P23D=P23F
  MSG "# P23D BECOMES P23F"
END-IF

IF P23C=BLANK
  MSG "P23C REMAINS NOT REPORTED"
end-IF

IF P23D=BLANK
  MSG "P23D REMAINS NOT REPORTED"
end-IF

IF P23C=0 AND P23D=0 AND (P23A=2:3 OR P23B=1:12)
  MSG "=> DATE OF BIRTH WITHIN LAST 12 MONTHS BUT ZERO CHILDREN REPORTED"
  IMPUTE P23A=BLANK
  IMPUTE P23B=BLANK
  MSG "* DATE BECOMES NR"
END-IF

IF P23A=0 AND P23B=0 AND (P23C<>0 OR P23D<>0)
  MSG "=> DATE OF LAST BIRTH IS 0/00 BUT NUMBER OF CHILDREN IS NOT 0/0"
  IMPUTE P23A=BLANK
  IMPUTE P23B=BLANK
  MSG "* DATE BECOMES NR"
END-IF

IF P23C<>BLANK AND P23E<>BLANK AND P23E>P23C
  MSG "=> NUMBER MALE BORN LAST 12 MONTHS < NUMBER STILL ALIVE"
  IMPUTE P23C=1
  IMPUTE P23E=1
  MSG "* NUMBER MALE BORN LAST 12 MONTHS REDUCED TO ONE STILL ALIVE"
END-IF

IF P23D<>BLANK AND P23F<>BLANK AND P23F>P23D
  MSG "=> NUMBER FEMALE BORN LAST 12 MONTHS < NUMBER STILL ALIVE"
  IMPUTE P23D=1
  IMPUTE P23F=1
  MSG "* NUMBER FEMALE BORN LAST 12 MONTHS REDUCED TO ONE STILL ALIVE"
END-IF

END-SUBROUTINE SRP23

```

```

SUBROUTINE MOVEHHH
$DATA 01 POPREC-HOLD PIC X(88).
$EXEC MOVE REC-TYPE-3 (B-PH) TO POPREC-HOLD.
$EXEC MOVE REC-TYPE-3 (B-PX) TO REC-TYPE-3 (B-PH).
$EXEC MOVE POPREC-HOLD TO REC-TYPE-3 (B-PX).
END-SUBR MOVEHHH

```

AT-END-QUEST

OUTPUT QUESTIONNAIRE