NLSY79 CODEBOOK SUPPLEMENT

ADDENDUM TO APPENDIX 18:

WORK HISTORY DATA

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WORK HISTORY PROGRAMS

The PL/1 program used to create the work history variables through 1994 is provided to researchers in this addendum to Appendix 18. Due to the length of this program, it is printed as a separate physical document. Appendix 18, "Work History Data," is part of the *NLSY79 Codebook Supplement,* which is available from NLS User Services (see the cover of this document for contact information).

/* This program was updated in October 1988 and supersedes previous versions. The original purpose of this program was to take the work history information and to load it using the dates associated with work events into an array to determine work status for each week over the interview periods and thus to be able to calculate the key work experience variables once overlap of and precedence of events had been accounted for. Its purpose has been expanded to allow for the the inclusion of other information with dates attached to it. By setting up an array with the same dimensions and loading dated information into it, one can compare different temporal ordering of events. This program is currently set up to handle work status, dual jobs, and total hours worked from 1-1-78 to the most recent interview date.

    The following assumptions are made in this program:

    1. civilian work takes precedence over any other activity. working 1 day in a week means work for that week. unemployment takes second precedence.
    2. hours per week worked at a job are assumed constant except for reported gaps.
    3. if R reports at least one gap all gaps are assumed reported. a maximum of 4 gaps assumed for each job.
    4. weeks unemployed which do not account for an entire period not working are assumed to occur in the middle of that period.
    5. a code of 3 replaces the employer code for the entire time worked since last interview if information on gaps is missing for that employer. the weeks coded '3' are counted as both weeks worked and weeks missing information. average weeks not working across all valid jobs is .10.
    6. tenure includes periods not working for an employer.
    7. the following codes are used in the work status array:

    0=no information reported to account for week
    2=not working (unemployment vs. out-of-labor-force cannot be determined)
    3=associated with an employer but periods not working are missing
    4=unemployed
    5=out of labor force
    7=active military service
    employer ID=round number multiplied by 100 plus the job number for that employer in that year e.g., 102=year 1, job 2, 305=year 3, job 5. this allows one to associate any characteristic for employer with that week.
    */

/**1979–85***/

```
(SUBRG):
DMPDATA: PROC options(MAIN);
default range(i:n) float;
/* place all declarations here */
dcl diskin file record input;
dcl tapein file record input;
dcl vars84 file stream input;
dcl vars85 file stream input;
dcl outdata file record output;
dcl outdisk file record output;
dcl add79 file record input; dcl ad79(503) float dec(6) controlled;
dcl add80 file record input; dcl ad80(346) float dec(6) controlled;
dcl add81 file record input; dcl ad81(394) float dec(6) controlled;
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dcl add82 file record input; dcl ad82(528) float dec(6) controlled;
dcl add83 file record input; dcl ad83(528) float dec(6) controlled;
dcl add84 file record input; dcl ad84(656) float dec(6) controlled;
dcl add85 file record input; dcl ad85(636) float dec(6) controlled;
dcl (mod,floor,ceil) builtin,
    sysprint file;
dcl (j,k,n,i) fixed bin(15);
dcl (problem1,problem2,problem3) float dec(6);
dcl y(5) float dec(6);
dcl 1 variables,
    2 ID,                    /* ID number of respondent, X(1) */
    2 SAMPLE_ID,             /* sample type, X(1561), including sex & race */
    2 BIRTHM_79,             /* date of birth (dob) reported during 1979 interview. */
    2 BIRTHD_79,
    2 BIRTHY_79,
    2 BIRTHM_81,             /* dob reported during 1981 interview. this dob has a  */
    2 BIRTHD_81,             /* some hand edits & may differ from the 1979 dob.  */
    2 BIRTHY_81,             /* if a non-interview in 1981, the dob is the 1979 dob. */
    2 ARRAYS,
      3 A(0:419) float dec(6),
      3 HOUR(0:419) float dec(6),
      3 DUALJOB(0:419) float dec(12),
    2 WORK_HISTORY(7),

    5 WEIGHT,                /* sampling weight   */
    5 LASTINT,               /* week number of last interview */
    5 INT,                   /* week number of current interview */
    5 INTM,
    5 INTD,
    5 INTY,
    5 JOB(10),               /* 10 possible jobs for each interview */
      10 START,              /* starting week of the job */
      10 STARTM,             /* starting month of the job */
      10 STARTD,             /* starting day of the job */
      10 STARTY,             /* starting year of the job */
      10 STOP,               /* stopping week of the job */
      10 STOPM,              /* stopping month of the job */
      10 STOPD,              /* stopping day of the job */
      10 STOPY,              /* stopping year of the job */
      10 PAST,               /* has R worked at job before last interview    1=before doli
                                                                              2=same as doli
                                                                              3=after doli        */

      10 CURRENT,            /* working at job at interview date */
      10 WHYLEFT,            /* reason left job if not currently working */
      10 CPSJOB,             /* is this job same as the cps job */
      10 HOURSWEEK,          /* usual hours per week at this job */
      10 OCCUPATION,         /* usual occupation at this job */
      10 INDUSTRY,           /* usual industry at this job */
      10 CLASSWORKER,        /* class of worker at this job */
      10 HOURDAY,            /* usual hours per day worked at this job */
      10 PAYRATE,            /* usual wage or salary at this job */
      10 TIMERATE,           /* time unit to interpret payrate */
      10 HOURLYWAGE,         /* usual wage converted to hourly wage */
      10 UNION,              /* wages set by collective bargaining */
      10 GOVTJOB,            /* is this job government-sponsored */
      10 WEEKSNOTWORKED,     /* any weeks not working at this job */
```

```
   10 PERIOD_IN_JOB(4),          /* information on each period not working */
      15 PERIODSTART,            /* starting week number of period not working */
      15 PERIODSTOP,             /* stopping week number of period not working */
      15 REASON,                 /* reason not working this period */
      15 ALL,                    /* how much time unemployed in this period */
      15 LOOK,                   /* number of weeks unemployed in this period */
   10 PREVIOUSEMP#,              /* job number of employer from last int */
   10 PRETEN,                    /* months worked for employer before lastint */
   10 TENURE,                    /* total weeks tenure as of interview date */
   10 NUMBER,                    /* job number which is loaded into 'A' array */
 5 BETWEEN_JOBS(6),             /* information about periods not working between jobs and military
      service */
   10 BSTART,                    /* week started this period not working */
   10 BSTOP,                     /* week stopped this period not working */
   10 BALL,                      /* how much of period not worked unemployed */
   10 BLOOK,                     /* number of weeks unemployed in this period */
   10 BREASON,                   /* reason not looking for work this period */
 5 MILITARY,                    /* information about active military service */
   10 MSTART1,                   /* starting week of first period of service */
   10 MSTART2,                   /* starting week of second period of service */
   10 MSTOP1,                    /* stopping week of first period of service */
   10 MSTOP2,                    /* stopping week of second period of service */
   10 MILWKSL,                   /* weeks active military service as of int */
   10 MILWKSC,                   /* weeks active military service in the calendar year */
 5 CALENDAR_YEAR_SUM,           /* key variables for the calendar year */
   10 WORKC,                     /* weeks worked in the calendar year */
   10 HOURC,                     /* hours worked in the calendar year */
   10 WUMPC,                     /* weeks unemployed in the calendar year */
   10 WOLFC,                     /* weeks out of labor force in calendar year */
   10 CAL_YEAR_JOBS,             /* number of jobs in the calendar year */
   10 CAL_YEAR_JOB#(10),         /* job numbers in the calendar year */
   10 MISSC,                     /* number of weeks unaccounted for in year */
   10 NWMISSC,                   /* weeks not employed that can't be split */
 5 LASTINT_SUM,                 /* key variables calculated since last int */
   10 LASTINT_JOBS,              /* number of jobs since last interview */
   10 WORKL,                     /* number of weeks worked since last int */
   10 HOURL,                     /* number of hours worked since last int */
   10 WUMPL,                     /* number of weeks unemployed since last int */
   10 WOLFL,                     /* weeks out of labor force since last int */
   10 WBID,                      /* number of weeks since last int */
   10 MISSL,                     /* weeks unaccounted for since last int */
   10 NWMISSL;                   /* weeks not employed that can't be split */
dcl X(12000) float dec(6);
dcl CX(3500) float dec(6) based(PTR);
dcl VLIST(0:3500) fixed bin(15,0) based(VPT);
dcl (NA,DK,MAX,MAXYEAR,MAXDUAL,MAXINT,
   PSD1,PSD2,PSD3,PSD4,PSY1,PSY2,PSY3,PSY4,
   PPD1,PPD2,PPD3,PPD4,PPY1,PPY2,PPY3,PPY4,
   P,PSD,PSY,PPD,PPY,BSD1,BSY1,BPD1,BPY1,
   LEAP,FILLER,F,DUP,DUA,NN,FLAG,#WEEKS) float dec(6);
dcl kount fixed bin(15),
   kount6 fixed bin(15),
   kount7 fixed bin(15),
   kount_out fixed bin(15);
NA=-4;
DK=-3;
```

```
kount=0;
kount6=0;
kount7=0;
kount_out=0;
on endfile(tapein) go to done;
on endfile(vars84) go to read2;
MAX=0; MAXYEAR=100; MAXDUAL=0; MAXINT=0;

1read1:
   get file(vars84) edit(NORC84,Q0120,Q0123,Q0126,Q0127,Q0130,Q0810,Q0911,Q0913,Q0915,Q0918,
     Q1046,Q1058,Q1059,Q1061,Q1064,Q1428,Q1429,Q1431,Q1433,Q1436,Q1438,Q1440,
     Q1752,Q1755,Q1765,Q1768,Q1919,Q1921,Q1923,Q1925,Q1927,Q1929,Q1931,Q1941,
     Q1949,Q1951,Q1953,Q1955,Q1957,Q1959,Q1961,Q1971,Q2010,Q2012,Q2014,Q2016,Q2018,
     Q2020,Q2022,Q2032,Q2040,Q2042,Q2044,Q2046,Q2048,Q2050,Q2052,Q2062,Q2110,Q2112,
     Q2114,Q2116,Q2118,Q2120,Q2122,Q2132,Q2140,Q2142,Q2144,Q2146,Q2148,Q2150,Q2152,Q2162,
     Q6144,Q6146,Q6323)(COL(1),78(F(7)));
   get file(VARS84) edit(Q7958,Q7964,Q7966,Q7968,Q7970,Q7972,Q7974,Q7976,Q8010,Q8012,Q8014,
     Q8019,Q8022,Q8024,Q8026,Q8028,Q8030,Q8032,Q8034,Q8036,Q8046,Q8054,Q8056,Q8058,
     Q8060,Q8062,Q8064,Q8066,Q8068,Q8078,Q8115,Q8117,Q8119,Q8121,Q8123,Q8125,Q8127,
     Q8129,Q8139,Q8147,Q8149,Q8151,Q8153,Q8155,Q8157,Q8159,Q8161,Q8171,Q8210,Q8212,Q8213,
     Q8218,Q8221,Q8224,Q8227,Q8234,Q8236,Q8237,Q8358,Q8364,Q8366,Q8368,Q8370,Q8372,
     Q8374,Q8376,Q8410,Q8412,Q8414,Q8419,Q8422,Q8424,Q8426,Q8428,Q8430,Q8432,Q8434,
     Q8436,Q8446,Q8454,Q8456,Q8458,Q8460,Q8462,Q8464,Q8466,Q8468,Q8478,Q8515,Q8517,
     Q8519,Q8521,Q8523,Q8525,Q8527,Q8529,Q8539,Q8547,Q8549,Q8551,Q8553,Q8555,Q8557,
     Q8559,Q8561,Q8571,Q8610,Q8612,Q8613,Q8618,Q8621,Q8624,Q8627,Q8634,Q8636,Q8637)
     (COL(547),116(F(7)));
   get file(VARS84) edit(Q8758,Q8764,Q8766,Q8768,Q8770,Q8772,Q8774,Q8776,Q8810,Q8812,Q8814,
     Q8819,Q8822,Q8824,Q8826,Q8828,Q8830,Q8832,Q8834,Q8836,Q8846,Q8854,Q8856,Q8858,
     Q8860,Q8862,Q8864,Q8866,Q8868,Q8878,Q8915,Q8917,Q8919,Q8921,Q8923,Q8925,Q8927,
     Q8929,Q8939,Q8947,Q8949,Q8951,Q8953,Q8955,Q8957,Q8959,Q8961,Q8971,Q9010,Q9012,Q9013,
     Q9018,Q9021,Q9024,Q9027,Q9034,Q9036,Q9037) (COL(1359),58(F(7)));
   get file(VARS84) edit(Q9158,Q9164,Q9166,Q9168,Q9170,Q9172,Q9174,Q9176,Q9210,Q9212,Q9214,
     Q9219,Q9222,Q9224,Q9226,Q9228,Q9230,Q9232,Q9234,Q9236,Q9246,Q9254,Q9256,Q9258,
     Q9260,Q9262,Q9264,Q9266,Q9268,Q9278,Q9315,Q9317,Q9319,Q9321,Q9323,Q9325,Q9327,
     Q9329,Q9339,Q9347,Q9349,Q9351,Q9353,Q9355,Q9357,Q9359,Q9361,Q9371,Q9410,Q9412,Q9413,
     Q9418,Q9421,Q9424,Q9427,Q9434,Q9436,Q9437,Q9558,Q9564,Q9566,Q9568,Q9570,Q9572,
     Q9574,Q9576,Q9610,Q9612,Q9614,Q9619,Q9622,Q9624,Q9626,Q9628,Q9630,Q9632,Q9634,
     Q9636,Q9646,Q9654,Q9656,Q9658,Q9660,Q9662,Q9664,Q9666,Q9668,Q9678,Q9715,Q9717,
     Q9719,Q9721,Q9723,Q9725,Q9727,Q9729,Q9739,Q9747,Q9749,Q9751,Q9753,Q9755,Q9757,
     Q9759,Q9761,Q9771,Q9810,Q9812,Q9813,Q9818,Q9821,Q9824,Q9827,Q9834,Q9836,Q9837,
     Q1947,Q1977,Q2038,Q2068,Q2138,Q8016,Q8416,Q8816,Q9216,Q9616,WT84,PUBID84)
     (COL(1765),128(F(7)));
kount6=kount6+1;
PROBLEM1=0;
PROBLEM2=0;
PROBLEM3=0;
   get file(VARS85) edit(NORC85,QQ0710,QQ0816,QQ0818,QQ0820,QQ0823,QQ0950,QQ0962,QQ0963,
     QQ0965,QQ0968,QQ1328,QQ1329,QQ1331,QQ1333,QQ1336,QQ1338,QQ1340,QQ1652,
     QQ1655,QQ1665,QQ1668,QQ1728,QQ1730,QQ1732,QQ1734,QQ1736,QQ1738,QQ1740,QQ1750,
     QQ1758,QQ1760,QQ1762,QQ1764,QQ1766,QQ1768,QQ1770,QQ1810,QQ1818,QQ1820,
     QQ1822,QQ1824,QQ1826,QQ1828,QQ1830,QQ1840,QQ1848,QQ1850,QQ1852,QQ1854,
     QQ1856,QQ1858,QQ1860,QQ1870,QQ1910,QQ1912,QQ1914,QQ1916,QQ1918,QQ1920,
     QQ1922,QQ1932,QQ1940,QQ1942,QQ1944,QQ1946,QQ1948,QQ1950,QQ1952,QQ1962,
     QQ5532,QQ5534) (COL(1),72(F(7)));
   get file(VARS85) edit(QQ5850,QQ5856,QQ5858,QQ5860,QQ5862,QQ5864,QQ5866,QQ5868,QQ5910,
     QQ5912,QQ5914,QQ5919,QQ5922,QQ5924,QQ5926,QQ5928,QQ5930,QQ5932,QQ5934,
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        QQ5936,QQ5946,QQ5954,QQ5956,QQ5958,QQ5960,QQ5962,QQ5964,QQ5966,QQ5968,QQ5978,
        QQ6015,QQ6017,QQ6019,QQ6021,QQ6023,QQ6025,QQ6027,QQ6029,QQ6039,QQ6047,
        QQ6049,QQ6051,QQ6053,QQ6055,QQ6057,QQ6059,QQ6061,QQ6071,QQ6110,QQ6112,QQ6113,
        QQ6118,QQ6121,QQ6124,QQ6127,QQ6134,QQ6136,QQ6137) (COL(505),58(F(7)));
    get file(VARS85) edit( QQ6250,QQ6256,QQ6258,QQ6260,QQ6262,QQ6264,QQ6266,QQ6268,QQ6310,
        QQ6312,QQ6314,QQ6319,QQ6322,QQ6324,QQ6326,QQ6328,QQ6330,QQ6332,QQ6334,
        QQ6336,QQ6346,QQ6354,QQ6356,QQ6358,QQ6360,QQ6362,QQ6364,QQ6366,QQ6368,QQ6378,
        QQ6415,QQ6417,QQ6419,QQ6421,QQ6423,QQ6425,QQ6427,QQ6429,QQ6439,QQ6447,
        QQ6449,QQ6451,QQ6453,QQ6455,QQ6457,QQ6459,QQ6461,QQ6471,QQ6510,QQ6512,QQ6513,
        QQ6518,QQ6521,QQ6524,QQ6527,QQ6534,QQ6536,QQ6537) (COL(911),58(F(7)));
    get file(VARS85) edit(QQ6650,QQ6656,QQ6658,QQ6660,QQ6662,QQ6664,QQ6666,QQ6668,QQ6710,
        QQ6712,QQ6714,QQ6719,QQ6722,QQ6724,QQ6726,QQ6728,QQ6730,QQ6732,QQ6734,
        QQ6736,QQ6746,QQ6754,QQ6756,QQ6758,QQ6760,QQ6762,QQ6764,QQ6766,QQ6768,QQ6778,
        QQ6815,QQ6817,QQ6819,QQ6821,QQ6823,QQ6825,QQ6827,QQ6829,QQ6839,QQ6847,
        QQ6849,QQ6851,QQ6853,QQ6855,QQ6857,QQ6859,QQ6861,QQ6871,QQ6910,QQ6912,QQ6913,
        QQ6918,QQ6921,QQ6924,QQ6927,QQ6934,QQ6936,QQ6937) (COL(1317),58(F(7)));
    get file(VARS85) edit(QQ7050,QQ7056,QQ7058,QQ7060,QQ7062,QQ7064,QQ7066,QQ7068,QQ7110,
        QQ7112,QQ7114,QQ7119,QQ7122,QQ7124,QQ7126,QQ7128,QQ7130,QQ7132,QQ7134,
        QQ7136,QQ7146,QQ7154,QQ7156,QQ7158,QQ7160,QQ7162,QQ7164,QQ7166,QQ7168,QQ7178,
        QQ7215,QQ7217,QQ7219,QQ7221,QQ7223,QQ7225,QQ7227,QQ7229,QQ7239,QQ7247,
        QQ7249,QQ7251,QQ7253,QQ7255,QQ7257,QQ7259,QQ7261,QQ7271,QQ7310,QQ7312,QQ7313,
        QQ7318,QQ7321,QQ7324,QQ7327,QQ7334,QQ7336,QQ7337) (COL(1723),58(F(7)));
    get file(VARS85) edit(QQ7450,QQ7456,QQ7458,QQ7460,QQ7462,QQ7464,QQ7466,QQ7468,QQ7510,
        QQ7512,QQ7514,QQ7519,QQ7522,QQ7524,QQ7526,QQ7528,QQ7530,QQ7532,QQ7534,
        QQ7536,QQ7546,QQ7554,QQ7556,QQ7558,QQ7560,QQ7562,QQ7564,QQ7566,QQ7568,QQ7578,
        QQ7615,QQ7617,QQ7619,QQ7621,QQ7623,QQ7625,QQ7627,QQ7629,QQ7639,QQ7647,
        QQ7649,QQ7651,QQ7653,QQ7655,QQ7657,QQ7659,QQ7661,QQ7671,QQ7710,QQ7712,QQ7713,
        QQ7718,QQ7721,QQ7724,QQ7727,QQ7734,QQ7736,QQ7737,QQ7825,QQ1756,QQ1816,
        QQ1846,QQ1876,QQ1938,QQ5916,QQ6316,QQ6716,QQ7116,QQ7516,WT85,PUBID85)
        (COL(2129),71(F(7)));
  kount7=kount7+1;

1read2:
 read file(tapein) set(PTR);
 read file(diskin) set(VPT);
 #VBLS=(VLIST(0));
 if #VBLS>MAX then MAX=#VBLS;
 X=NA;
 do J=1 to #VBLS;
   X(VLIST(J))=CX(J);
 end;
 if X(1800)=51722 then X(0001)=4542;
 kount=kount+1;

 if X(1800)^=NORC84 then do;
   put skip edit ('error - X(1800)=',X(1800),'NORC84=',NORC84)
          (A,F(7),A,F(7));
   go to done;
 end;
 else do;
   A,HOUR,DUALJOB=0;
   PR=0;
   WORK_HISTORY=-4;
   ID=PUBID84;
   WEIGHT(1)=X(2400); WEIGHT(2)=X(4065); WEIGHT(3)=X(6262); WEIGHT(4)=X(5420);
   WEIGHT(5)=X(11631); WEIGHT(6)=WT84; WEIGHT(7)=WT85;
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```
BIRTHM_79=X(2072);          BIRTHD_79=X(2073);          BIRTHY_79=X(2074);
if WEIGHT(3)>0 then do;
  BIRTHM_81=X(4180);          BIRTHD_81=X(4181);          BIRTHY_81=X(4182);
end;
else do;
  BIRTHM_81=BIRTHM_79;
  BIRTHD_81=BIRTHD_79;
  BIRTHY_81=BIRTHY_79;
end;
SAMPLE_ID=X(1561);
if X(1800)=8169 | X(1800)=14902 | X(1800)=22228 | X(1800)=25346 | X(1800)=26237 | X(1800)=26245 |
        X(1800)=27888 | X(1800)=45104 | X(1800)=47431 | X(1800)=69989 | X(1800)=88237 |
        X(1800)=89110 | X(1800)=92023 | X(1800)=100453 | X(1800)=102293 | X(1800)=103846 |
        X(1800)=108332 | X(1800)=115543 | X(1800)=126375 | X(1800)=155507
  then do;
  if SAMPLE_ID>=1 & SAMPLE_ID<=4 then X(1561)=SAMPLE_ID+4;
  else if SAMPLE_ID>=9 & SAMPLE_ID<=11 then X(1561)=SAMPLE_ID+3;
  else if SAMPLE_ID>=15 & SAMPLE_ID<=17 then X(1561)=SAMPLE_ID+3;
  SAMPLE_ID=X(1561);
end;
if X(1800)=19091 | X(1800)=38687 | X(1800)=40881 | X(1800)=40899 | X(1800)=44073 | X(1800)=51540 |
        X(1800)=52100 | X(1800)=55814 | X(1800)=67785 | X(1800)=71050 | X(1800)=73098 |
        X(1800)=74245 | X(1800)=79566 | X(1800)=88831 | X(1800)=88872 | X(1800)=100461 |
        X(1800)=101097 | X(1800)=108514 | X(1800)=113522 | X(1800)=124073 | X(1800)=134072 |
        X(1800)=134122 | X(1800)=149310 | X(1800)=151068 | X(1800)=97857
  then do;
  if SAMPLE_ID>=5 & SAMPLE_ID<=8 then X(1561)=SAMPLE_ID-4;
  else if SAMPLE_ID>=12 & SAMPLE_ID<=14 then X(1561)=SAMPLE_ID-3;
  else if SAMPLE_ID>=18 & SAMPLE_ID<=20 then X(1561)=SAMPLE_ID-3;
  SAMPLE_ID=X(1561);
end;

call VARIABLES1979;
call CALC(1);
if X(0004)>15 then call SUMMER(1);
else WBID(1)=INT(1)-LASTINT(1)+1;
if WEIGHT(2)=0 then WORK_HISTORY(2)=-5;
else do;
  call VARIABLES1980;
  call CALC(2);
  if X(0007)>15 then do;
    call SUMMER(2);
    if X(0004)<=15 then CALENDAR_YEAR_SUM(2)=-4;
  end;
  else WBID(2)=INT(2)-LASTINT(2)+1;
end;
if WEIGHT(3)=0 then WORK_HISTORY(3)=-5;
else do;
  call VARIABLES1981;
  call CALC(3);
  call SUMMER(3);
  if X(0007)=15 then CALENDAR_YEAR_SUM(3)=-4;
  else WBID(3)=INT(3)-LASTINT(3)+1;
end;
if  WEIGHT(4)=0 then WORK_HISTORY(4)=-5;
else do;
```

```
   call VARIABLES1982;
   call CALC(4);
   call SUMMER(4);
 end;
 if WEIGHT(5)=0 then WORK_HISTORY(5)=-5;
 else do;
   call VARIABLES1983;
   call CALC(5);
   call SUMMER(5);
 end;
 if WEIGHT(6)=0 then WORK_HISTORY(6)=-5;
 else do;
   call VARIABLES1984;
   call CALC(6);
   call SUMMER(6);
 end;
 if WEIGHT(7)=0 then WORK_HISTORY(7)=-5;
 else do;
   call VARIABLES1985;
   call CALC(7);
   call SUMMER(7);
 end;
 Y(1)=X(1800);
 Y(2)=ID;
 Y(3)=PROBLEM1;
 Y(4)=PROBLEM2;
 Y(5)=PROBLEM3;
 write file(OUTDATA) from (VARIABLES);
 write file(OUTDISK) from (Y);
 kount_out=kount_out+1;
 go to READ1;
end;


1VARIABLES1979:PROC;
STARTM(1,1)=X(2093);     STARTD(1,1)=X(2094);     STARTY(1,1)=X(2095);
STARTM(1,2)=X(2096);     STARTD(1,2)=X(2097);     STARTY(1,2)=X(2098);
STARTM(1,3)=X(2099);     STARTD(1,3)=X(2100);     STARTY(1,3)=X(2101);
STARTM(1,4)=X(2102);     STARTD(1,4)=X(2103);     STARTY(1,4)=X(2104);
STARTM(1,5)=X(2105);     STARTD(1,5)=X(2106);     STARTY(1,5)=X(2107);
STOPM(1,1)=X(2108);      STOPD(1,1)=X(2109);      STOPY(1,1)=X(2110);
STOPM(1,2)=X(2111);      STOPD(1,2)=X(2112);      STOPY(1,2)=X(2113);
STOPM(1,3)=X(2114);      STOPD(1,3)=X(2115);      STOPY(1,3)=X(2116);
STOPM(1,4)=X(2117);      STOPD(1,4)=X(2118);      STOPY(1,4)=X(2119);
STOPM(1,5)=X(2120);      STOPD(1,5)=X(2121);      STOPY(1,5)=X(2122);
LASTINT(1)=CEIL(WEEK(1,1,78));
INT(1)=FLOOR(WEEK(X(2367),X(2368),79));
INTM(1)=X(2367);
INTD(1)=X(2368);
INTY(1)=79;
OCCUPATION(1,1)=X(453);  OCCUPATION(1,2)=X(768);  OCCUPATION(1,3)=X(769);
OCCUPATION(1,4)=X(770);  OCCUPATION(1,5)=X(771);
INDUSTRY(1,1)=X(452);    INDUSTRY(1,2)=X(772);    INDUSTRY(1,3)=X(773);
INDUSTRY(1,4)=X(774);    INDUSTRY(1,5)=X(775);
CLASSWORKER(1,1)=X(457); CLASSWORKER(1,2)=X(776); CLASSWORKER(1,3)=X(777);
CLASSWORKER(1,4)=X(778); CLASSWORKER(1,5)=X(779);
HOURDAY(1,1)=X(677);     HOURDAY(1,2)=X(678);     HOURDAY(1,3)=X(679);
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HOURDAY(1,4)=X(680);        HOURDAY(1,5)=X(681);
PAYRATE(1,1)=X(788);        PAYRATE(1,2)=X(790);        PAYRATE(1,3)=X(792);
PAYRATE(1,4)=X(794);        PAYRATE(1,5)=X(796);
TIMERATE(1,1)=X(789);       TIMERATE(1,2)=X(791);       TIMERATE(1,3)=X(793);
TIMERATE(1,4)=X(795);       TIMERATE(1,5)=X(797);
UNION(1,1)=X(803);          UNION(1,2)=X(804);          UNION(1,3)=X(805);
UNION(1,4)=X(806);          UNION(1,5)=X(807);
GOVTJOB(1,1)=X(828);        GOVTJOB(1,2)=X(829);        GOVTJOB(1,3)=X(830);
GOVTJOB(1,4)=X(831);        GOVTJOB(1,5)=X(832);
PRETEN(1,1)=X(0692);        PRETEN(1,2)=X(0693);        PRETEN(1,3)=X(0694);
PRETEN(1,4)=X(0695);        PRETEN(1,5)=X(0696);
J=1;
do N=2093 to 2105 by 3;
  if X(N)>-4 then do;
    START(1,J)=WEEK(X(N),X(N+1),X(N+2));
    STOP(1,J)=WEEK(X(N+15),X(N+16),X(N+17));
  end;
  J=J+1;
end;
J=1;
do N=641 to 645;
  CURRENT(1,J)=X(N);
  WHYLEFT(1,J)=X(N+10);
  HOURSWEEK(1,J)=X(N+15);
  WEEKSNOTWORKED(1,J)=X(N+56);
  J=J+1;
end;
J,K=1;
do N=2123 to 2219 by 6;
  if X(N)>-4 then do;
    PERIODSTART(1,J,K)=WEEK(X(N),X(N+1),X(N+2));
    PERIODSTOP(1,J,K)=WEEK(X(N+3),X(N+4),X(N+5));
  end;
  J=J + 1;
  if J=6 then do;
    J=1;
    K=K+1;
  end;
end;
K=1;
do N=711,728,743,758;
  do J=1 to 5;
    REASON(1,J,K)=X(N+J);
    if N=758 & J=2 then J=5;
  end;
  K=K+1;
end;
K=1;
do N=1249 to 1254;
  BSTART(1,K)=X(N+6);
  BSTOP(1,K)=X(N);
  BLOOK(1,K)=X(N+20);
  BREASON(1,K)=X(N+33);
  if BLOOK(1,K)=0 then BALL(1,K)=1;
  else if BLOOK(1,K)>0 then do;
    if BLOOK(1,K)=BSTOP(1,K)-BSTART(1,K) then BALL(1,K)=3;
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    else BALL(1,K)=2;
  end;
  K=K+1;
end;
if (X(0292)=1 | X(0299)=1 | X(0308)=1) & (X(0289)>77 | X(0303)>77 | X(298)=1) then do;
  if X(0289)>0 then do;
    if X(0288)>0 then MSTART1(1)=WEEK(X(0288),X(0294),X(0289));
    else if X(0289)<78 then MSTART1(1)=LASTINT(1);
  end;
  if X(298)=1 then MSTOP1(1)=INT(1);
  else if X(0303)>0 & X(0302)>0 then
    MSTOP1(1)=WEEK(X(0302),X(0304),X(0303));
  if MSTART1(1)>=0 & MSTOP1(1)>=MSTART1(1) then call FILL(MSTART1(1),MSTOP1(1),7,0);
end;
if (X(0293)=1 | X(0309)=1) & (X(0291)>77 | X(0306)>77) then do;
  if X(0291)>0 then do;
    if X(0290)>0 then MSTART2(1)=WEEK(X(0290),X(0295),X(0291));
    else if X(0291)<78 then MSTART2(1)=1;
  end;
  if X(0305)>0 & X(0306)>0 then do;
    if X(0307)>0 then MSTOP2(1)=WEEK(X(0305),X(0307),X(0306));
    else MSTOP2(1)=WEEK(X(0305),X(0311),X(0306));
  end;
  if MSTART2(1)>=0 & MSTOP2(1)>=MSTART2(1) then call FILL(MSTART2(1),MSTOP2(1),7,0);
end;
if MSTART1(1)>-4 | MSTOP1(1)>-4 | MSTART2(1)>-4 | MSTOP2(1)>-4 then do;
  if MSTART1(1)=-3 | MSTOP1(1)=-3 | MSTART2(1)=-3 | MSTOP2(1)=-3 | MSTOP1(1)<MSTART1(1) |
        MSTOP2(1)<MSTART2(1) then do;
    MILWKSL(1)=-3;
    MILWKSC(1)=-3;
  end;
  else do;
    MILWKSC(1)=0;
    MILWKSL(1)=0;
    if MSTART1(1)>=0 then MILWKSL(1)=MSTOP1(1) - MSTART1(1) + 1;
    if MSTART2(1)>=0 then MILWKSL(1)=MILWKSL(1) + MSTOP2(1) - MSTART2(1) + 1;
    MILWKSL(1)=FLOOR(MILWKSL(1)+.5);
  end;
end;
if X(0001)=202 | X(0001)=602 | X(0001)=1579 | X(0001)=1603 | X(0001)=1915 | X(0001)=2495 | X(0001)=3635
        | X(0001)=3736 | X(0001)=4680 | X(0001)=5153 | X(0001)=5274 | X(0001)=5339 | X(0001)=6767 |
        X(0001)=7193 | X(0001)=7272 | X(0001)=7735 | X(0001)=7739 | X(0001)=7774 | X(0001)=8009 |
        X(0001)=8134 | X(0001)=8447 | X(0001)=8803 | X(0001)=9147 | X(0001)=10009 | X(0001)=10015 |
        X(0001)=10018 | X(0001)=10022 | X(0001)=10023 | X(0001)=10403 | X(0001)=10473 |
        X(0001)=11459 | X(0001)=12017 | X(0001)=12168 | X(0001)=12263 | X(0001)=12538 then do;
  allocate AD79;
  read file(ADD79) into (AD79);
  STARTM(1,6)=AD79(2);              STARTD(1,6)=AD79(3);
  STARTY(1,6)=AD79(4);              STARTM(1,7)=AD79(5);
  STARTD(1,7)=AD79(6);              STARTY(1,7)=AD79(7);
  STARTM(1,8)=AD79(8);              STARTD(1,8)=AD79(9);
  STARTY(1,8)=AD79(10);             STARTM(1,9)=AD79(11);
  STARTD(1,9)=AD79(12);             STARTY(1,9)=AD79(13);
  STARTM(1,10)=AD79(14);            STARTD(1,10)=AD79(15);
  STARTY(1,10)=AD79(16);            STOPM(1,6)=AD79(22);
  STOPD(1,6)=AD79(23);              STOPY(1,6)=AD79(24);
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STOPM(1,7)=AD79(25);                STOPD(1,7)=AD79(26);
STOPY(1,7)=AD79(27);                STOPM(1,8)=AD79(28);
STOPD(1,8)=AD79(29);                STOPY(1,8)=AD79(30);
STOPM(1,9)=AD79(31);                STOPD(1,9)=AD79(32);
STOPY(1,9)=AD79(33);                STOPM(1,10)=AD79(34);
STOPD(1,10)=AD79(35);               STOPY(1,10)=AD79(36);
PRETEN(1,6)=AD79(78);               PRETEN(1,7)=AD79(79);
PRETEN(1,8)=AD79(80);               PRETEN(1,9)=AD79(81);
PRETEN(1,10)=AD79(82);
OCCUPATION(1,7)=AD79(230);          OCCUPATION(1,8)=AD79(231);
OCCUPATION(1,9)=AD79(232);          OCCUPATION(1,10)=AD79(233);
INDUSTRY(1,7)=AD79(234);            INDUSTRY(1,8)=AD79(235);
INDUSTRY(1,9)=AD79(236);            INDUSTRY(1,10)=AD79(237);
CLASSWORKER(1,7)=AD79(238);         CLASSWORKER(1,8)=AD79(239);
CLASSWORKER(1,9)=AD79(240);         CLASSWORKER(1,10)=AD79(241);
HOURDAY(1,6)=AD79(63);              HOURDAY(1,7)=AD79(64);
HOURDAY(1,8)=AD79(65);              HOURDAY(1,9)=AD79(66);
HOURDAY(1,10)=AD79(67);
PAYRATE(1,6)=AD79(250);             PAYRATE(1,7)=AD79(252);
PAYRATE(1,8)=AD79(258);             PAYRATE(1,9)=AD79(260);
PAYRATE(1,10)=AD79(262);
TIMERATE(1,6)=AD79(251);            TIMERATE(1,7)=AD79(253);
TIMERATE(1,8)=AD79(259);            TIMERATE(1,9)=AD79(261);
TIMERATE(1,10)=AD79(263);
UNION(1,6)=AD79(279);               UNION(1,7)=AD79(280);
UNION(1,8)=AD79(281);               UNION(1,9)=AD79(282);
UNION(1,10)=AD79(283);
GOVTJOB(1,6)=AD79(294);             GOVTJOB(1,7)=AD79(295);
GOVTJOB(1,8)=AD79(296);             GOVTJOB(1,9)=AD79(297);
GOVTJOB(1,10)=AD79(298);
J=6;
do N=2 to 14 by 3;
  if AD79(N)>-4 then do;
    START(1,J)=WEEK(AD79(N),AD79(N+1),AD79(N+2));
    STOP(1,J)=WEEK(AD79(N+20),AD79(N+21),AD79(N+22));
  end;
  J=J+1;
end;
J=6;
do N=17 to 21;
  CURRENT(1,J)=AD79(N);
  HOURSWEEK(1,J)=AD79(N+25);
  WEEKSNOTWORKED(1,J)=AD79(N+66);
  J=J+1;
end;
J=6; K=1;
do N=88,125,160,195;
  do NN=0 by 6 to 24;
    if AD79(N+NN)>-4 then do;
      PERIODSTART(1,J,K)=WEEK(AD79(N+NN),AD79(N+1+NN),AD79(N+2+NN));
      PERIODSTOP(1,J,K)=WEEK(AD79(N+NN+3),AD79(N+NN+4),AD79(N+NN+5));
    end;
    J=J+1;
  end;
  J=6;
  K=K+1;
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    end;
   J=6; K=1;
   do N=118,155,190,225;
     do NN=0 to 4;
       REASON(1,J+NN,K)=AD79(N+NN);
     end;
     K=K+1;
   end;
   FREE AD79;
 end;
 end VARIABLES1979;
 1VARIABLES1980:PROC;
 STARTM(2,1)=X(3338);       STARTD(2,1)=X(3382);       STARTY(2,1)=X(3383);
 STARTM(2,2)=X(3453);       STARTD(2,2)=X(3384);       STARTY(2,2)=X(3385);
 STARTM(2,3)=X(3568);       STARTD(2,3)=X(3487);       STARTY(2,3)=X(3488);
 STARTM(2,4)=X(3683);       STARTD(2,4)=X(3489);       STARTY(2,4)=X(3490);
 STARTM(2,5)=X(3798);       STARTD(2,5)=X(2907);       STARTY(2,5)=X(2908);
 STOPM(2,1)=X(3343);        STOPD(2,1)=X(1123);        STOPY(2,1)=X(1124);
 STOPM(2,2)=X(3458);        STOPD(2,2)=X(1145);        STOPY(2,2)=X(1146);
 STOPM(2,3)=X(3573);        STOPD(2,3)=X(1267);        STOPY(2,3)=X(1268);
 STOPM(2,4)=X(3688);        STOPD(2,4)=X(1296);        STOPY(2,4)=X(1297);
 STOPM(2,5)=X(3803);        STOPD(2,5)=X(1298);        STOPY(2,5)=X(1299);
 LASTINT(2)=CEIL(WEEK(X(2367),X(2368),79)+1/7);
 INT(2)=FLOOR(WEEK(X(3303),X(0930),80));
 INTM(2)=X(3303);
 INTD(2)=X(0930);
 if WEIGHT(2)>0 then INTY(2)=80;
 HOURDAY(2,1)=X(3399);      HOURDAY(2,2)=X(3514);      HOURDAY(2,3)=X(3629);
 HOURDAY(2,4)=X(3744);      HOURDAY(2,5)=X(3859);
 PAYRATE(2,1)=X(3400);      PAYRATE(2,2)=X(3515);      PAYRATE(2,3)=X(3630);
 PAYRATE(2,4)=X(3745);      PAYRATE(2,5)=X(3860);
 TIMERATE(2,1)=X(3402);     TIMERATE(2,2)=X(3517);     TIMERATE(2,3)=X(3632);
 TIMERATE(2,4)=X(3747);     TIMERATE(2,5)=X(3862);
 UNION(2,1)=X(3403);        UNION(2,2)=X(3518);        UNION(2,3)=X(3633);
 UNION(2,4)=X(3748);        UNION(2,5)=X(3863);
 GOVTJOB(2,1)=X(3404);      GOVTJOB(2,2)=X(3519);      GOVTJOB(2,3)=X(3634);
 GOVTJOB(2,4)=X(3749);      GOVTJOB(2,5)=X(3864);
 if X(3332)>-4 then PREVIOUSEMP#(2,1)=X(3332); else PREVIOUSEMP#(2,1)=X(3337);
 if X(3447)>-4 then PREVIOUSEMP#(2,2)=X(3447); else PREVIOUSEMP#(2,2)=X(3452);
 if X(3562)>-4 then PREVIOUSEMP#(2,3)=X(3562); else PREVIOUSEMP#(2,3)=X(3567);
 if X(3677)>-4 then PREVIOUSEMP#(2,4)=X(3677); else PREVIOUSEMP#(2,4)=X(3682);
 if X(3792)>-4 then PREVIOUSEMP#(2,5)=X(3792); else PREVIOUSEMP#(2,5)=X(3797);
 PRETEN(2,1)=X(3341);       PRETEN(2,2)=X(3456);       PRETEN(2,3)=X(3571);
 PRETEN(2,4)=X(3686);       PRETEN(2,5)=X(3801);
 N=3338;
 do J=1 to 5;
   if J=1 then do;
     PSD1=X(1306); PSD2=X(3497);PSD3=X(3709); PSD4=X(3815); PSY1=X(1307);
         PSY2=X(3498);PSY3=X(3710); PSY4=X(3816); PPD1=X(0736); PPD2=X(3604);PPD3=X(3727);
         PPD4=X(3829); PPY1=X(0737); PPY2=X(3605);PPY3=X(3728); PPY4=X(3830);
   end;
   if J=2 then do;
     PSD1=X(1308); PSD2=X(3499); PSD3=X(3711); PSD4=X(3821); PSY1=X(1309); PSY2=X(3500);
         PSY3=X(3712); PSY4=X(3822); PPD1=X(2848); PPD2=X(3612); PPD3=X(3729); PPD4=X(3831);
         PPY1=X(2849); PPY2=X(3613); PPY3=X(3730); PPY4=X(3832);
   end;
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if J=3 then do;
  PSD1=X(1321); PSD2=X(3592); PSD3=X(3716); PSD4=X(3823); PSY1=X(1323); PSY2=X(3593);
      PSY3=X(3717); PSY4=X(3824); PPD1=X(2850); PPD2=X(3614); PPD3=X(3752); PPD4=X(3833);
      PPY1=X(2851); PPY2=X(3615); PPY3=X(3753); PPY4=X(3834);
end;
if J=4 then do;
  PSD1=X(1325); PSD2=X(3594); PSD3=X(3718); PSD4=X(3825); PSY1=X(1327); PSY2=X(3595);
      PSY3=X(3719); PSY4=X(3826); PPD1=X(2852); PPD2=X(3670); PPD3=X(3811); PPD4=X(3835);
      PPY1=X(2853); PPY2=X(3671); PPY3=X(3812); PPY4=X(3836);
end;
if J=5 then do;
  PSD1=X(1329); PSD2=X(3602); PSY1=X(1331); PSY2=X(3603); PPD1=X(2854); PPD2=X(3707);
      PPY1=X(2855); PPY2=X(3708);
end;
if X(N)>-4 then do;
  START(2,J)=WEEK(X(N),STARTD(2,J),STARTY(2,J));
  STOP(2,J)=WEEK(X(N+5),STOPD(2,J),STOPY(2,J));
end;
PAST(2,J)=X(N+1);
CURRENT(2,J)=X(N+4);
WHYLEFT(2,J)=X(N+6);
WEEKSNOTWORKED(2,J)=X(N+8);
CPSJOB(2,J)=X(N+50);
if CPSJOB(2,J)=1 then do;
  INDUSTRY(2,J)=X(2644);        OCCUPATION(2,J)=X(2645);
  CLASSWORKER(2,J)=X(2646);         HOURSWEEK(2,J)=X(2654);
end;
else do;
  INDUSTRY(2,J)=X(N+57);                OCCUPATION(2,J)=X(N+56);
  CLASSWORKER(2,J)=X(N+58);          HOURSWEEK(2,J)=X(N+51);
end;
P=N;
do K=1 to 4;
  if K=1 then do;
    PSD=PSD1;          PSY=PSY1;          PPD=PPD1;          PPY=PPY1;
  end;
  if K=2 then do;
    PSD=PSD2;          PSY=PSY2;          PPD=PPD2;          PPY=PPY2;
  end;
  if K=3 then do;
    PSD=PSD3;          PSY=PSY3;          PPD=PPD3;          PPY=PPY3;
  end;
  if K=4 then do;
    PSD=PSD4;          PSY=PSY4;          PPD=PPD4;          PPY=PPY4;
  end;
  if J<5 | K<3 then do;
    if X(P+10)>-4 then do;
      PERIODSTART(2,J,K)=WEEK(X(P+10),PSD,PSY);
      PERIODSTOP(2,J,K)=WEEK(X(P+11),PPD,PPY);
    end;
    REASON(2,J,K)=X(P+12);
    if J^=4 & K^=3 then ALL(2,J,K)=X(P+13);
    if (J=1 & K<4) | (J=2 & K<3) | ((J=3 | J=4) & K=1) then do;
      LOOK(2,J,K)=X(P+17);
    end;
  end;
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    P=P+10;
  end;
  N=N+115;
end;
K=1;
do N=2803 to 2839 by 9;
  if N=2803 then do;
    BSD1=X(0319);      BSY1=X(0320);      BPD1=X(0333);      BPY1=X(0334);
  end;
  if N=2812 then do;
    BSD1=X(0335);      BSY1=X(0336);      BPD1=X(0356);      BPY1=X(0357);
  end;
  if N=2821 then do;
    BSD1=X(0358);      BSY1=X(0359);      BPD1=X(2225);      BPY1=X(2226);
  end;
  if N=2830 then do;
    BSD1=X(2227);      BSY1=X(2228);      BPD1=X(2229);      BPY1=X(2230);
  end;
  if N=2839 then do;
    BSD1=X(2231);      BSY1=X(2232);      BPD1=X(2233);      BPY1=X(2234);
  end;
  if X(N)>-4 then do;
    BSTART(2,K)=WEEK(X(N),BSD1,BSY1);              BSTOP(2,K)=WEEK(X(N+1),BPD1,BPY1);
  end;
  BALL(2,K)=X(N+2);
  BLOOK(2,K)=X(N+6);
  BREASON(2,K)=X(N+8);
  K=K+1;
end;
if X(1796)=1 & X(3916)>=1 & X(3916)<=4 & X(3918)=1 then do;
  if X(2369)=1 then MSTOP1(2)=INT(2);
  else MSTOP1(2)=WEEK(X(2370),X(2373),X(2371));
  MSTART1(2)=LASTINT(2);
  if MSTART1(2)>=0 & MSTOP1(2)>=MSTART1(2) then call FILL(MSTART1(2),MSTOP1(2),7,0);
end;
if X(2423)>=1 & X(2423)<=4 & (X(2424)=1 | X(2424)=3) then do;
  if X(2427)=1 then do;
    MSTART2(2)=WEEK(X(2428),X(2431),X(2429));
    MSTOP2(2)=INT(2);
  end;
  else if X(2544)=1 then do;
    MSTART2(2)=WEEK(X(2545),X(2546),X(2547));
    MSTOP2(2)=WEEK(X(2549),X(2550),X(2551));
  end;
  if MSTART2(2)>=0 & MSTOP2(2)>=MSTART2(2) then call FILL(MSTART2(2),MSTOP2(2),7,0);
end;
if MSTART1(2)>-4 | MSTART2(2)>-4 | MSTOP1(2)>-4 | MSTOP2(2)>-4 then do;
  if MSTART1(2)=-3 | MSTART2(2)=-3 | MSTOP1(2)=-3 | MSTOP2(2)=-3 | MSTOP1(2)<MSTART1(2) |
        MSTOP2(2)<MSTART2(2) then do;
    MILWKSL(2)=-3;
    MILWKSC(2)=-3;
  end;
  else do;
    MILWKSC(2)=0;
    MILWKSL(2)=0;
    if MSTART1(2)>=0 then MILWKSL(2)=MSTOP1(2) - MSTART1(2) + 1;
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    if MSTART2(2)>=0 then MILWKSL(2)=MILWKSL(2) + MSTOP2(2) - MSTART2(2) + 1;
    MILWKSL(2)=FLOOR(MILWKSL(2)+.5);
  end;
end;
if X(0001)=724 | X(0001)=954 | X(0001)=970 | X(0001)=1004 | X(0001)=1104 | X(0001)=1578 | X(0001)=1855 |
        X(0001)=2044 | X(0001)=2449 | X(0001)=2831 | X(0001)=2996 | X(0001)=3011 | X(0001)=3285 |
        X(0001)=3708 | X(0001)=3810 | X(0001)=3907 | X(0001)=4158 | X(0001)=4443 | X(0001)=4591 |
        X(0001)=4630 | X(0001)=4671 | X(0001)=4679 | X(0001)=4681 | X(0001)=5772 | X(0001)=6130 |
        X(0001)=6354 | X(0001)=6589 | X(0001)=6873 | X(0001)=6980 | X(0001)=7041 | X(0001)=7700 |
        X(0001)=7899 | X(0001)=8362 | X(0001)=8371 | X(0001)=9204 | X(0001)=9460 | X(0001)=9595 |
        X(0001)=9902 | X(0001)=10018 | X(0001)=10244 | X(0001)=11474 | X(0001)=11821 | X(0001)=12399
        then do;
  allocate AD80;
  read file(ADD80) into (AD80);
  STARTM(2,6)=FLOOR(AD80(19)/10000);           STARTD(2,6)=MOD((FLOOR(AD80(19)/100),100);
  STARTY(2,6)=MOD(AD80(19),100);
  STARTM(2,7)=FLOOR(AD80(134)/10000);          STARTD(2,7)=MOD((FLOOR(AD80(134)/100)),100);
  STARTY(2,7)=MOD(AD80(134),100);
  STARTM(2,8)=FLOOR(AD80(249)/10000);          STARTD(2,8)=MOD((FLOOR(AD80(249)/100)),100);
  STARTY(2,8)=MOD(AD80(249),100);
  STOPM(2,6)=FLOOR(AD80(24)/10000);            STOPD(2,6)=MOD((FLOOR(AD80(24)/100)),100);
  STOPY(2,6)=MOD(AD80(24),100);
  STOPM(2,7)=FLOOR(AD80(139)/10000);           STOPD(2,7)=MOD((FLOOR(AD80(139)/100)),100);
  STOPY(2,7)=MOD(AD80(139),100);
  STOPM(2,8)=FLOOR(AD80(254)/10000);           STOPD(2,8)=MOD((FLOOR(AD80(254)/100)),100);
  STOPY(2,8)=MOD(AD80(254),100);
  if AD80(13)>-4 then PREVIOUSEMP#(2,6)=AD80(13);   else PREVIOUSEMP#(2,6)=AD80(18);
  if AD80(128)>-4 then PREVIOUSEMP#(2,7)=AD80(128);   else PREVIOUSEMP#(2,7)=AD80(133);
  if AD80(243)>-4 then PREVIOUSEMP#(2,8)=AD80(243);   else PREVIOUSEMP#(2,8)=AD80(248);
  PRETEN(2,6)=AD80(22);                  PRETEN(2,7)=AD80(137);
  PRETEN(2,8)=AD80(252);
  OCCUPATION(2,6)=AD80(75);          OCCUPATION(2,7)=AD80(190);
  OCCUPATION(2,8)=AD80(305);
  INDUSTRY(2,6)=AD80(76);            INDUSTRY(2,7)=AD80(191);
  INDUSTRY(2,8)=AD80(306);
  CLASSWORKER(2,6)=AD80(77);        CLASSWORKER(2,7)=AD80(192);
  CLASSWORKER(2,8)=AD80(307);
  HOURDAY(2,6)=AD80(80);            HOURDAY(2,7)=AD80(195);
  HOURDAY(2,8)=AD80(310);
  PAYRATE(2,6)=AD80(81) * 100 + AD80(82);
  PAYRATE(2,7)=AD80(196) * 100 + AD80(197);
  PAYRATE(2,8)=AD80(311) * 100 + AD80(312);
  TIMERATE(2,6)=AD80(83);            TIMERATE(2,7)=AD80(198);
  TIMERATE(2,8)=AD80(313);
  UNION(2,6)=AD80(84);              UNION(2,7)=AD80(199);
  UNION(2,8)=AD80(314);
  GOVTJOB(2,6)=AD80(85);            GOVTJOB(2,7)=AD80(200);
  GOVTJOB(2,8)=AD80(315);
  N=19;
  do J=6 to 8;
    if AD80(N)>-4 then do;
      START(2,J)=WEEK((FLOOR(AD80(N)/10000)),
        (MOD(FLOOR(AD80(N)/100),100)),(MOD(AD80(N),100)));
      STOP(2,J)=WEEK((FLOOR(AD80(N+5)/10000)),
        (MOD(FLOOR(AD80(N+5)/100),100)),(MOD(AD80(N+5),100)));
    end;
```

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   PAST(2,J)=AD80(N+1);
   CURRENT(2,J)=AD80(N+4);
   if AD80(N+50)=1 then HOURSWEEK(2,J)=X(2654);
   else HOURSWEEK(2,J)=AD80(N+51);
   WEEKSNOTWORKED(2,J)=AD80(N+8);
   P=N;
   do K=1 to 4;
     if AD80(P+10)>-4 then do;
       PERIODSTART(2,J,K)=WEEK((FLOOR(AD80(P+10)/10000)),
         (MOD(FLOOR(AD80(P+10)/100),100)),(MOD(AD80(P+10),100)));
       PERIODSTOP(2,J,K)=WEEK((FLOOR(AD80(P+11)/10000)),
         (MOD(FLOOR(AD80(P+11)/100),100)),(MOD(AD80(P+11),100)));
     end;
     REASON(2,J,K)=AD80(P+12);
     ALL(2,J,K)=AD80(P+13);
     LOOK(2,J,K)=AD80(P+17);
     P=P+10;
   end;
   N=N+115;
 end;
 FREE AD80;
end;
end VARIABLES1980;
1VARIABLES1981:PROC;
STARTM(3,1)=X(5504);      STARTD(3,1)=X(5505);      STARTY(3,1)=X(5506);
STARTM(3,2)=X(5635);      STARTD(3,2)=X(5636);      STARTY(3,2)=X(5637);
STARTM(3,3)=X(5766);      STARTD(3,3)=X(5767);      STARTY(3,3)=X(5768);
STARTM(3,4)=X(5897);      STARTD(3,4)=X(5898);      STARTY(3,4)=X(5899);
STARTM(3,5)=X(6028);      STARTD(3,5)=X(6029);      STARTY(3,5)=X(6030);
STOPM(3,1)=X(5508);       STOPD(3,1)=X(5509);       STOPY(3,1)=X(5510);
STOPM(3,2)=X(5639);       STOPD(3,2)=X(5640);       STOPY(3,2)=X(5641);
STOPM(3,3)=X(5770);       STOPD(3,3)=X(5771);       STOPY(3,3)=X(5772);
STOPM(3,4)=X(5901);       STOPD(3,4)=X(5902);       STOPY(3,4)=X(5903);
STOPM(3,5)=X(6032);       STOPD(3,5)=X(6033);       STOPY(3,5)=X(6034);
if PR=2 then LASTINT(3)=CEIL(WEEK(X(3303),X(0930),80)+1/7);
else LASTINT(3)=CEIL(WEEK(X(2367),X(2368),79)+1/7);
INT(3)=FLOOR(WEEK(X(5418),X(5419),81));
INTM(3)=X(5418);
INTD(3)=X(5419);
if WEIGHT(3)>0 then INTY(3)=81;
HOURDAY(3,1)=X(5581);     HOURDAY(3,2)=X(5712);     HOURDAY(3,3)=X(5843);
HOURDAY(3,4)=X(5974);     HOURDAY(3,5)=X(6105);
PAYRATE(3,1)=X(5582);     PAYRATE(3,2)=X(5713);     PAYRATE(3,3)=X(5844);
PAYRATE(3,4)=X(5975);     PAYRATE(3,5)=X(6106);
TIMERATE(3,1)=X(5584);    TIMERATE(3,2)=X(5715);    TIMERATE(3,3)=X(5846);
TIMERATE(3,4)=X(5977);    TIMERATE(3,5)=X(6108);
UNION(3,1)=X(5585);       UNION(3,2)=X(5716);       UNION(3,3)=X(5847);
UNION(3,4)=X(5978);       UNION(3,5)=X(6109);
GOVTJOB(3,1)=X(5586);     GOVTJOB(3,2)=X(5717);     GOVTJOB(3,3)=X(5848);
GOVTJOB(3,4)=X(5979);     GOVTJOB(3,5)=X(6110);
if X(5495)>-4 then PREVIOUSEMP#(3,1)=X(5495); else PREVIOUSEMP#(3,1)=X(5500);
if X(5626)>-4 then PREVIOUSEMP#(3,2)=X(5626); else PREVIOUSEMP#(3,2)=X(5631);
if X(5757)>-4 then PREVIOUSEMP#(3,3)=X(5757); else PREVIOUSEMP#(3,3)=X(5762);
if X(5888)>-4 then PREVIOUSEMP#(3,4)=X(5888); else PREVIOUSEMP#(3,4)=X(5893);
if X(6019)>-4 then PREVIOUSEMP#(3,5)=X(6019); else PREVIOUSEMP#(3,5)=X(6024);
PRETEN(3,1)=X(5503);      PRETEN(3,2)=X(5634);      PRETEN(3,3)=X(5765);
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PRETEN(3,4)=X(5896);        PRETEN(3,5)=X(6027);
N=5504;
do J=1 to 5;
  if X(N)>-4 then do;
    START(3,J)=WEEK(X(N),X(N+1),X(N+2));
    STOP(3,J)=WEEK(X(N+4),X(N+5),X(N+6));
  end;
  PAST(3,J)=X(N-3);
  CURRENT(3,J)=X(N+3);
  WHYLEFT(3,J)=X(N+7);
  WEEKSNOTWORKED(3,J)=X(N+9);
  CPSJOB(3,J)=X(N+67);
  if CPSJOB(3,J)=1 then do;
    INDUSTRY(3,J)=X(4560);              OCCUPATION(3,J)=X(4561);
    CLASSWORKER(3,J)=X(4563);           HOURSWEEK(3,J)=X(4566);
  end;
  else do;
    INDUSTRY(3,J)=X(N+73);              OCCUPATION(3,J)=X(N+72);
    CLASSWORKER(3,J)=X(N+74);           HOURSWEEK(3,J)=X(N+68);
  end;
  P=N;
  do K=1 to 4;
    if X(P+11)>-4 then do;
      PERIODSTART(3,J,K)=WEEK(X(P+11),X(P+12),X(P+13));
      PERIODSTOP(3,J,K)=WEEK(X(P+14),X(P+15),X(P+16));
    end;
    REASON(3,J,K)=X(P+17);
    ALL(3,J,K)=X(P+18);
    LOOK(3,J,K)=X(P+22);
    P=P+14;
  end;
  N=N+131;
end;
K=1;
do N=4682 to 4734 by 13;
  if X(N)>-4 then do;
    BSTART(3,K)=WEEK(X(N),X(N+1),X(N+2));
    BSTOP(3,K)=WEEK(X(N+3),X(N+4),X(N+5));
  end;
  BALL(3,K)=X(N+6);
  BLOOK(3,K)=X(N+10);
  BREASON(3,K)=X(N+12);
  K=K+1;
end;
if X(4285)=1 & X(5457)>=1 & X(5457)<=4 then do;
  if X(4322)=1 then MSTOP1(3)=INT(3);
  else MSTOP1(3)=WEEK(X(4324),X(4327),X(4325));
  MSTART1(3)=LASTINT(3);
  if MSTART1(3)>=0 & MSTOP1(3)>=MSTART1(3) then call FILL(MSTART1(3),MSTOP1(3),7,0);
end;
if X(4376)>=1 & X(4376)<=4 then do;
  if X(4380)=1 then do;
    MSTOP2(3)=INT(3);
    MSTART2(3)=WEEK(X(4381),X(4384),X(4382));
  end;
  else if X(4497)=1 then do;
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      MSTART2(3)=WEEK(X(4498),X(4499),X(4500));
      MSTOP2(3)=WEEK(X(4502),X(4503),X(4504));
   end;
   if MSTART2(3)>=0 & MSTOP2(3)>=MSTART2(3) then call FILL(MSTART2(3),MSTOP2(3),7,0);
end;
if MSTART1(3)>-4 | MSTOP1(3)>-4 | MSTART2(3)>-4 | MSTOP2(3)>-4 then do;
   if MSTART1(3)=-3 | MSTOP1(3)=-3 | MSTART2(3)=-3 | MSTOP2(3)=-3 then do;
      MILWKSL(3)=-3;
      MILWKSC(3)=-3;
   end;
   else do;
      MILWKSC(3)=0;
      MILWKSL(3)=0;
      if MSTART1(3)>=0 then MILWKSL(3)=MSTOP1(3) - MSTART1(3) + 1;
      if MSTART2(3)>=0 then
         MILWKSL(3)=MILWKSL(3) + MSTOP2(3) - MSTART2(3) + 1;
      MILWKSL(3)=FLOOR(MILWKSL(3)+.5);
   end;
end;
if X(0001)=32 | X(0001)=39 | X(0001)=139 | X(0001)=163 | X(0001)=860 | X(0001)=1570 | X(0001)=1594 |
         X(0001)=2330 | X(0001)=2338 | X(0001)=2961 | X(0001)=3011 | X(0001)=3423 | X(0001)=4276 |
         X(0001)=5597 | X(0001)=7034 | X(0001)=7120 | X(0001)=7872 | X(0001)=8167 | X(0001)=8199 |
         X(0001)=8447 | X(0001)=8614 | X(0001)=8863 | X(0001)=9280 | X(0001)=9595 | X(0001)=9846 |
         X(0001)=10144 | X(0001)=10226 | X(0001)=10540 | X(0001)=10983 | X(0001)=11212 |
         X(0001)=12252 | X(0001)=12317 then do;
   allocate AD81;
   read file(ADD81) into (AD81);
   STARTM(3,6)=AD81(22);              STARTD(3,6)=AD81(23);
   STARTY(3,6)=AD81(24);              STARTM(3,7)=AD81(153);
   STARTD(3,7)=AD81(154);            STARTY(3,7)=AD81(155);
   STARTM(3,8)=AD81(284);           STARTD(3,8)=AD81(285);
   STARTY(3,8)=AD81(286);           STOPM(3,6)=AD81(26);
   STOPD(3,6)=AD81(27);              STOPY(3,6)=AD81(28);
   STOPM(3,7)=AD81(157);            STOPD(3,7)=AD81(158);
   STOPY(3,7)=AD81(159);            STOPM(3,8)=AD81(288);
   STOPD(3,8)=AD81(289);            STOPY(3,8)=AD81(290);
   if AD81(13)>-4 then PREVIOUSEMP#(3,6)=AD81(13);   else PREVIOUSEMP#(3,6)=AD81(18);
   if AD81(144)>-4 then PREVIOUSEMP#(3,7)=AD81(144);   else PREVIOUSEMP#(3,7)=AD81(149);
   if AD81(275)>-4 then PREVIOUSEMP#(3,8)=AD81(275);   else PREVIOUSEMP#(3,8)=AD81(280);
   PRETEN(3,6)=AD81(21);            PRETEN(3,7)=AD81(152);
   PRETEN(3,8)=AD81(283);
   OCCUPATION(3,6)=AD81(94);       OCCUPATION(3,7)=AD81(225);
   OCCUPATION(3,8)=AD81(356);
   INDUSTRY(3,6)=AD81(95);         INDUSTRY(3,7)=AD81(226);
   INDUSTRY(3,8)=AD81(357);
   CLASSWORKER(3,6)=AD81(96);     CLASSWORKER(3,7)=AD81(227);
   CLASSWORKER(3,8)=AD81(358);
   HOURDAY(3,6)=AD81(99);          HOURDAY(3,7)=AD81(230);
   HOURDAY(3,8)=AD81(361);
   PAYRATE(3,6)=AD81(100);         PAYRATE(3,7)=AD81(231);
   PAYRATE(3,8)=AD81(362);
   TIMERATE(3,6)=AD81(101);        TIMERATE(3,7)=AD81(232);
   TIMERATE(3,8)=AD81(363);
   UNION(3,6)=AD81(102);            UNION(3,7)=AD81(233);
   UNION(3,8)=AD81(364);
   GOVTJOB(3,6)=AD81(103);         GOVTJOB(3,7)=AD81(234);
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    GOVTJOB(3,8)=AD81(365);
    N=22;
    do J=6 to 8;
      if AD81(N)>-4 then do;
        START(3,J)=WEEK(AD81(N),AD81(N+1),AD81(N+2));
        STOP(3,J)=WEEK(AD81(N+4),AD81(N+5),AD81(N+6));
      end;
      N=N+131;
    end;
    N=25;
    do J=6 to 8;
      CURRENT(3,J)=AD81(N);
      HOURSWEEK(3,J)=AD81(N+65);
      WEEKSNOTWORKED(3,J)=AD81(N+6);
      PAST(3,J)=AD81(N-6);
      P=N;
      do K=1 to 4;
        if AD81(P+8)>-4 then do;
          PERIODSTART(3,J,K)=WEEK(AD81(P+8),AD81(P+9),AD81(P+10));
          PERIODSTOP(3,J,K)=WEEK(AD81(P+11),AD81(P+12),AD81(P+13));
        end;
        REASON(3,J,K)=AD81(P+14);
        ALL(3,J,K)=AD81(P+15);
        LOOK(3,J,K)=AD81(P+19);
        P=P+14;
      end;
      N=N+131;
    end;
    FREE AD81;
  end;
 end VARIABLES1981;
1VARIABLES1982:PROC;
 STARTM(4,1)=X(8547);      STARTD(4,1)=X(8548);      STARTY(4,1)=X(8549);
 STARTM(4,2)=X(8679);      STARTD(4,2)=X(8680);      STARTY(4,2)=X(8681);
 STARTM(4,3)=X(8811);      STARTD(4,3)=X(8812);      STARTY(4,3)=X(8813);
 STARTM(4,4)=X(8943);      STARTD(4,4)=X(8944);      STARTY(4,4)=X(8945);
 STARTM(4,5)=X(9075);      STARTD(4,5)=X(9076);      STARTY(4,5)=X(9077);
 STOPM(4,1)=X(8551);       STOPD(4,1)=X(8552);       STOPY(4,1)=X(8553);
 STOPM(4,2)=X(8683);       STOPD(4,2)=X(8684);       STOPY(4,2)=X(8685);
 STOPM(4,3)=X(8815);       STOPD(4,3)=X(8816);       STOPY(4,3)=X(8817);
 STOPM(4,4)=X(8947);       STOPD(4,4)=X(8948);       STOPY(4,4)=X(8949);
 STOPM(4,5)=X(9079);       STOPD(4,5)=X(9080);       STOPY(4,5)=X(9081);
 if PR=1 then LASTINT(4)=CEIL(WEEK(X(2367),X(2368),79)+1/7);
 else if PR=2 then LASTINT(4)=CEIL(WEEK(X(3303),X(0930),80)+1/7);
 else LASTINT(4)=CEIL(WEEK(X(5418),X(5419),81)+1/7);
 INT(4)=FLOOR(WEEK(X(8310),X(8311),82));
 INTM(4)=X(8310);
 INTD(4)=X(8311);
 if WEIGHT(4)>0 then INTY(4)=82;
 HOURDAY(4,1)=X(8615);     HOURDAY(4,2)=X(8747);     HOURDAY(4,3)=X(8879);
 HOURDAY(4,4)=X(9011);     HOURDAY(4,5)=X(9143);
 PAYRATE(4,1)=X(8625);     PAYRATE(4,2)=X(8757);     PAYRATE(4,3)=X(8889);
 PAYRATE(4,4)=X(9021);     PAYRATE(4,5)=X(9153);
 TIMERATE(4,1)=X(8627);    TIMERATE(4,2)=X(8759);    TIMERATE(4,3)=X(8891);
 TIMERATE(4,4)=X(9023);    TIMERATE(4,5)=X(9155);
 UNION(4,1)=X(8628);       UNION(4,2)=X(8760);       UNION(4,3)=X(8892);
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UNION(4,4)=X(9024);          UNION(4,5)=X(9156);
GOVTJOB(4,1)=X(8629);        GOVTJOB(4,2)=X(8761);        GOVTJOB(4,3)=X(8893);
GOVTJOB(4,4)=X(9025);        GOVTJOB(4,5)=X(9157);
if X(8538)>-4 then PREVIOUSEMP#(4,1)=X(8538); else PREVIOUSEMP#(4,1)=X(8543);
if X(8670)>-4 then PREVIOUSEMP#(4,2)=X(8670); else PREVIOUSEMP#(4,2)=X(8675);
if X(8802)>-4 then PREVIOUSEMP#(4,3)=X(8802); else PREVIOUSEMP#(4,3)=X(8807);
if X(8934)>-4 then PREVIOUSEMP#(4,4)=X(8934); else PREVIOUSEMP#(4,4)=X(8939);
if X(9066)>-4 then PREVIOUSEMP#(4,5)=X(9066); else PREVIOUSEMP#(4,5)=X(9071);
PRETEN(4,1)=X(8546);         PRETEN(4,2)=X(8678);         PRETEN(4,3)=X(8810);
PRETEN(4,4)=X(8942);         PRETEN(4,5)=X(9074);
N=8547;
do J=1 to 5;
  if X(N)>-4 then do;
    START(4,J)=WEEK(X(N),X(N+1),X(N+2));
    STOP(4,J)=WEEK(X(N+4),X(N+5),X(N+6));
  end;
  PAST(4,J)=X(N-3);
  CURRENT(4,J)=X(N+3);
  WHYLEFT(4,J)=X(N+7);
  WEEKSNOTWORKED(4,J)=X(N+9);
  CPSJOB(4,J)=X(N+69);
  if CPSJOB(4,J)=1 then do;
    INDUSTRY(4,J)=X(7120);             OCCUPATION(4,J)=X(7121);
    CLASSWORKER(4,J)=X(7123);          HOURSWEEK(4,J)=X(7126);
  end;
  else do;
    INDUSTRY(4,J)=X(N+74);             OCCUPATION(4,J)=X(N+73);
    CLASSWORKER(4,J)=X(N+75);          HOURSWEEK(4,J)=X(N+67);
  end;
  P=N;
  do K=1 to 4;
    if X(P+11)>-4 then do;
      PERIODSTART(4,J,K)=WEEK(X(P+11),X(P+12),X(P+13));
      PERIODSTOP(4,J,K)=WEEK(X(P+14),X(P+15),X(P+16));
    end;
    REASON(4,J,K)=X(P+17);
    ALL(4,J,K)=X(P+18);
    LOOK(4,J,K)=X(P+22);
    P=P+14;
  end;
  N=N+132;
end;
K=1;
do N=7280 to 7332 by 13;
  if X(N)>-4 then do;
    BSTART(4,K)=WEEK(X(N),X(N+1),X(N+2));
    BSTOP(4,K)=WEEK(X(N+3),X(N+4),X(N+5));
  end;
  BALL(4,K)=X(N+6);
  BLOOK(4,K)=X(N+10);
  BREASON(4,K)=X(N+12);
  K=K+1;
end;
if X(6758)=1 & X(8353)>=1 & X(8353)<=4 then do;
  if X(6796)=1 then MSTOP1(4)=INT(4);
  else MSTOP1(4)=WEEK(X(6798),X(6801),X(6799));
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    MSTART1(4)=LASTINT(4);
    if MSTART1(4)>=0 & MSTOP1(4)>=MSTART1(4) then call FILL(MSTART1(4),MSTOP1(4),7,0);
  end;
  if X(6854)>=1 & X(6854)<=4 then do;
    if X(6858)=1 then do;
      MSTART2(4)=WEEK(X(6859),X(6862),X(6860));
      MSTOP2(4)=INT(4);
    end;
    else if X(7000)=1 then do;
      MSTART2(4)=WEEK(X(7001),X(7002),X(7003));
      MSTOP2(4)=WEEK(X(7005),X(7006),X(7007));
    end;
    if MSTART2(4)>=0 & MSTOP2(4)>=MSTART2(4) then call FILL(MSTART2(4),MSTOP2(4),7,0);
  end;
  if MSTART1(4)>-4 | MSTART2(4)>-4 | MSTOP1(4)>-4 | MSTOP2(4)>-4 then do;
    if MSTART1(4)=-3 | MSTART2(4)=-3 | MSTOP1(4)=-3 | MSTOP2(4)=-3 then do;
      MILWKSL(4)=-3;
      MILWKSC(4)=-3;
    end;
    else do;
      MILWKSC(4)=0;
      MILWKSL(4)=0;
      if MSTART1(4)>=0 then MILWKSL(4)=MSTOP1(4) - MSTART1(4) + 1;
      if MSTART2(4)>=0 then
        MILWKSL(4)=MILWKSL(4) + MSTOP2(4) - MSTART2(4) + 1;
      MILWKSL(4)=FLOOR(MILWKSL(4)+.5);
    end;
  end;
end;
if X(0001)=11 | X(0001)=202 | X(0001)=964 | X(0001)=1855 | X(0001)=2316 | X(0001)=2338 | X(0001)=2759 |
        X(0001)=2850 | X(0001)=3101 | X(0001)=3550 | X(0001)=3905 | X(0001)=4075 | X(0001)=4386 |
        X(0001)=5179 | X(0001)=5769 | X(0001)=6570 | X(0001)=6915 | X(0001)=7773 | X(0001)=7848 |
        X(0001)=8447 | X(0001)=9125 | X(0001)=9187 | X(0001)=9582 | X(0001)=9770 | X(0001)=11064 |
        X(0001)=11632 then do;
  allocate AD82;
  read file(ADD82) into (AD82);
  STARTM(4,6)=AD82(21);              STARTD(4,6)=AD82(22);
  STARTY(4,6)=AD82(23);              STARTM(4,7)=AD82(153);
  STARTD(4,7)=AD82(154);             STARTY(4,7)=AD82(155);
  STARTM(4,8)=AD82(285);             STARTD(4,8)=AD82(286);
  STARTY(4,8)=AD82(287);             STARTM(4,9)=AD82(417);
  STARTD(4,9)=AD82(418);             STARTY(4,9)=AD82(419);
  STOPM(4,6)=AD82(25);               STOPD(4,6)=AD82(26);
  STOPY(4,6)=AD82(27);               STOPM(4,7)=AD82(157);
  STOPD(4,7)=AD82(158);              STOPY(4,7)=AD82(159);
  STOPM(4,8)=AD82(289);              STOPD(4,8)=AD82(290);
  STOPY(4,8)=AD82(291);              STOPM(4,9)=AD82(421);
  STOPD(4,9)=AD82(422);              STOPY(4,9)=AD82(423);
  if AD82(12)>-4 then PREVIOUSEMP#(4,6)=AD82(12);    else PREVIOUSEMP#(4,6)=AD82(17);
  if AD82(144)>-4 then PREVIOUSEMP#(4,7)=AD82(144);  else PREVIOUSEMP#(4,7)=AD82(149);
  if AD82(276)>-4 then PREVIOUSEMP#(4,8)=AD82(276);  else PREVIOUSEMP#(4,8)=AD82(281);
  if AD82(408)>-4 then PREVIOUSEMP#(4,9)=AD82(408);  else PREVIOUSEMP#(4,9)=AD82(413);
  PRETEN(4,6)=AD82(20);              PRETEN(4,7)=AD82(152);
  PRETEN(4,8)=AD82(284);             PRETEN(4,9)=AD82(416);
  OCCUPATION(4,6)=AD82(94);          OCCUPATION(4,7)=AD82(226);
  OCCUPATION(4,8)=AD82(358);         OCCUPATION(4,9)=AD82(490);
  INDUSTRY(4,6)=AD82(95);            INDUSTRY(4,7)=AD82(227);
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   INDUSTRY(4,8)=AD82(359);          INDUSTRY(4,9)=AD82(491);
   CLASSWORKER(4,6)=AD82(96);        CLASSWORKER(4,7)=AD82(228);
   CLASSWORKER(4,8)=AD82(360);       CLASSWORKER(4,9)=AD82(492);
   HOURDAY(4,6)=AD82(89);            HOURDAY(4,7)=AD82(221);
   HOURDAY(4,8)=AD82(353);           HOURDAY(4,9)=AD82(485);
   PAYRATE(4,6)=AD82(99);            PAYRATE(4,7)=AD82(231);
   PAYRATE(4,8)=AD82(363);           PAYRATE(4,9)=AD82(495);
   TIMERATE(4,6)=AD82(101);          TIMERATE(4,7)=AD82(233);
   TIMERATE(4,8)=AD82(365);          TIMERATE(4,9)=AD82(497);
   UNION(4,6)=AD82(102);             UNION(4,7)=AD82(234);
   UNION(4,8)=AD82(366);             UNION(4,9)=AD82(498);
   GOVTJOB(4,6)=AD82(91);            GOVTJOB(4,7)=AD82(223);
   GOVTJOB(4,8)=AD82(355);           GOVTJOB(4,9)=AD82(487);
   N=21;
   do J=6 to 9;
     if AD82(N)>-4 then do;
       START(4,J)=WEEK(AD82(N),AD82(N+1),AD82(N+2));
       STOP(4,J)=WEEK(AD82(N+4),AD82(N+5),AD82(N+6));
     end;
     N=N+132;
   end;
   N=24;
   do J=6 to 9;
     CURRENT(4,J)=AD82(N);
     HOURSWEEK(4,J)=AD82(N+64);
     WEEKSNOTWORKED(4,J)=AD82(N+6);
     PAST(4,J)=AD82(N-6);
     P=N;
     do K=1 to 4;
       if AD82(P+8)>-4 then do;
         PERIODSTART(4,J,K)=WEEK(AD82(P+8),AD82(P+9),AD82(P+10));
         PERIODSTOP(4,J,K)=WEEK(AD82(P+11),AD82(P+12),AD82(P+13));
       end;
       REASON(4,J,K)=AD82(P+14);
       ALL(4,J,K)=AD82(P+15);
       LOOK(4,J,K)=AD82(P+19);
       P=P+14;
     end;
     N=N+132;
   end;
   FREE AD82;
 end;
 end VARIABLES1982;
1VARIABLES1983:PROC;
STARTM(5,1)=X(10991);      STARTD(5,1)=X(10992);      STARTY(5,1)=X(10993);
STARTM(5,2)=X(11123);      STARTD(5,2)=X(11124);      STARTY(5,2)=X(11125);
STARTM(5,3)=X(11255);      STARTD(5,3)=X(11256);      STARTY(5,3)=X(11257);
STARTM(5,4)=X(11387);      STARTD(5,4)=X(11388);      STARTY(5,4)=X(11389);
STARTM(5,5)=X(11519);      STARTD(5,5)=X(11520);      STARTY(5,5)=X(11521);
STOPM(5,1)=X(10995);       STOPD(5,1)=X(10996);       STOPY(5,1)=X(10997);
STOPM(5,2)=X(11127);       STOPD(5,2)=X(11128);       STOPY(5,2)=X(11129);
STOPM(5,3)=X(11259);       STOPD(5,3)=X(11260);       STOPY(5,3)=X(11261);
STOPM(5,4)=X(11391);       STOPD(5,4)=X(11392);       STOPY(5,4)=X(11393);
STOPM(5,5)=X(11523);       STOPD(5,5)=X(11524);       STOPY(5,5)=X(11525);
if PR=1 then LASTINT(5)=CEIL(WEEK(X(2367),X(2368),79)+1/7);
else if PR=2 then LASTINT(5)=CEIL(WEEK(X(3303),X(0930),80)+1/7);
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else if PR=3 then LASTINT(5)=CEIL(WEEK(X(5418),X(5419),81)+1/7);
else LASTINT(5)=CEIL(WEEK(X(8310),X(8311),82)+1/7);
INT(5)=FLOOR(WEEK(X(10644),X(10645),83));
INTM(5)=X(10644);
INTD(5)=X(10645);
if WEIGHT(5)>0 then INTY(5)=83;
HOURDAY(5,1)=X(11058);    HOURDAY(5,2)=X(11190);    HOURDAY(5,3)=X(11322);
HOURDAY(5,4)=X(11454);    HOURDAY(5,5)=X(11586);
PAYRATE(5,1)=X(11069);    PAYRATE(5,2)=X(11201);    PAYRATE(5,3)=X(11333);
PAYRATE(5,4)=X(11465);    PAYRATE(5,5)=X(11597);
TIMERATE(5,1)=X(11071);   TIMERATE(5,2)=X(11203);   TIMERATE(5,3)=X(11335);
TIMERATE(5,4)=X(11467);   TIMERATE(5,5)=X(11599);
UNION(5,1)=X(11072);      UNION(5,2)=X(11204);      UNION(5,3)=X(11336);
UNION(5,4)=X(11468);      UNION(5,5)=X(11600);
GOVTJOB(5,1)=X(11073);    GOVTJOB(5,2)=X(11205);    GOVTJOB(5,3)=X(11337);
GOVTJOB(5,4)=X(11469);    GOVTJOB(5,5)=X(11601);
if X(10982)>-4 then PREVIOUSEMP#(5,1)=X(10982); else PREVIOUSEMP#(5,1)=X(10987);
if X(11114)>-4 then PREVIOUSEMP#(5,2)=X(11114); else PREVIOUSEMP#(5,2)=X(11119);
if X(11246)>-4 then PREVIOUSEMP#(5,3)=X(11246); else PREVIOUSEMP#(5,3)=X(11251);
if X(11378)>-4 then PREVIOUSEMP#(5,4)=X(11378); else PREVIOUSEMP#(5,4)=X(11383);
if X(11510)>-4 then PREVIOUSEMP#(5,5)=X(11510); else PREVIOUSEMP#(5,5)=X(11515);
PRETEN(5,1)=X(10990);     PRETEN(5,2)=X(11122);     PRETEN(5,3)=X(11254);
PRETEN(5,4)=X(11386);     PRETEN(5,5)=X(11518);
N=10991;
do J=1 to 5;
  if X(N)>-4 then do;
    START(5,J)=WEEK(X(N),X(N+1),X(N+2));
    STOP(5,J)=WEEK(X(N+4),X(N+5),X(N+6));
  end;
  PAST(5,J)=X(N-3);
  CURRENT(5,J)=X(N+3);
  WHYLEFT(5,J)=X(N+7);
  WEEKSNOTWORKED(5,J)=X(N+9);
  CPSJOB(5,J)=X(N+68);
  if CPSJOB(5,J)=1 then do;
    INDUSTRY(5,J)=X(9636);              OCCUPATION(5,J)=X(9637);
    CLASSWORKER(5,J)=X(9641);           HOURSWEEK(5,J)=X(9644);
  end;
  else do;
    INDUSTRY(5,J)=X(N+74);              OCCUPATION(5,J)=X(N+73);
    CLASSWORKER(5,J)=X(N+75);           HOURSWEEK(5,J)=X(N+69);
  end;
  P=N;
  do K=1 to 4;
    if X(P+11)>-4 then do;
      PERIODSTART(5,J,K)=WEEK(X(P+11),X(P+12),X(P+13));
      PERIODSTOP(5,J,K)=WEEK(X(P+14),X(P+15),X(P+16));
    end;
    REASON(5,J,K)=X(P+17);
    ALL(5,J,K)=X(P+18);
    LOOK(5,J,K)=X(P+22);
    P=P+14;
  end;
  N=N+132;
end;
K=1;
```

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do N=9700,9716,9732,9748,9764,9777;
  if X(N)>-4 then do;
    BSTART(5,K)=WEEK(X(N),X(N+1),X(N+2));
    BSTOP(5,K)=WEEK(X(N+3),X(N+4),X(N+5));
  end;
  BALL(5,K)=X(N+6);
  if K<5 then BLOOK(5,K)=X(N+11);
  else if K=5 | K=6 then BLOOK(5,K)=-4;
  if K<5 then BREASON(5,K)=X(N+14);
  else if K=5 then BREASON(5,K)=X(9775);
  K=K+1;
end;
if X(9278)=1 & X(10678)>=1 & X(10678)<=4 then do;
  if X(9318)=1 then MSTOP1(5)=INT(5);
  else MSTOP1(5)=WEEK(X(9320),X(9323),X(9321));
  MSTART1(5)=LASTINT(5);
  if MSTART1(5)>=0 & MSTOP1(5)>=MSTART1(5) then call FILL(MSTART1(5),MSTOP1(5),7,0);
end;
if X(9374)>=1 & X(9374)<=4 then do;
  if X(9378)=1 then do;
    MSTART2(5)=WEEK(X(9379),X(9382),X(9380));
    MSTOP2(5)=INT(5);
  end;
  else if X(9524)=1 then do;
    MSTART2(5)=WEEK(X(9525),X(9526),X(9527));
    MSTOP2(5)=WEEK(X(9529),X(9530),X(9531));
  end;
  if MSTART2(5)>=0 & MSTOP2(5)>=MSTART2(5) then call FILL(MSTART2(5),MSTOP2(5),7,0);
end;
if MSTART1(5)>-4 | MSTART2(5)>-4 | MSTOP1(5)>-4 | MSTOP2(5)>-4 then do;
  if MSTART1(5)=-3 | MSTART2(5)=-3 | MSTOP1(5)=-3 | MSTOP2(5)=-3 then do;
    MILWKSL(5)=-3;
    MILWKSC(5)=-3;
  end;
  else do;
    MILWKSC(5)=0;
    MILWKSL(5)=0;
    if MSTART1(5)>=0 then MILWKSL(5)=MSTOP1(5) - MSTART1(5) + 1;
    if MSTART2(5)>=0 then
      MILWKSL(5)=MILWKSL(5) + MSTOP2(5) - MSTART2(5) + 1;
    MILWKSL(5)=FLOOR(MILWKSL(5)+.5);
  end;
end;
if X(0001)=173 | X(0001)=582 | X(0001)=1040 | X(0001)=1461 | X(0001)=1486 | X(0001)=1764 | X(0001)=1970
        | X(0001)=2217 | X(0001)=2550 | X(0001)=2563 | X(0001)=2797 | X(0001)=2945 | X(0001)=4615 |
        X(0001)=5316 | X(0001)=5777 | X(0001)=6065 | X(0001)=7870 | X(0001)=8325 | X(0001)=8333 |
        X(0001)=9615 | X(0001)=10006 | X(0001)=10465 | X(0001)=10473 | X(0001)=10850 | X(0001)=11336
        | X(0001)=12466 | X(0001)=12470 then do;
  allocate AD83;
  read file(ADD83) into(AD83);
  STARTM(5,6)=AD83(21);            STARTD(5,6)=AD83(22);
  STARTY(5,6)=AD83(23);            STARTM(5,7)=AD83(153);
  STARTD(5,7)=AD83(154);           STARTY(5,7)=AD83(155);
  STARTM(5,8)=AD83(285);           STARTD(5,8)=AD83(286);
  STARTY(5,8)=AD83(287);           STARTM(5,9)=AD83(417);
  STARTD(5,9)=AD83(418);           STARTY(5,9)=AD83(419);
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STOPM(5,6)=AD83(25);                 STOPD(5,6)=AD83(26);
STOPY(5,6)=AD83(27);                 STOPM(5,7)=AD83(157);
STOPD(5,7)=AD83(158);                STOPY(5,7)=AD83(159);
STOPM(5,8)=AD83(289);                STOPD(5,8)=AD83(290);
STOPY(5,8)=AD83(291);                STOPM(5,9)=AD83(421);
STOPD(5,9)=AD83(422);                STOPY(5,9)=AD83(423);
if AD83(12)>-4 then PREVIOUSEMP#(5,6)=AD83(12);   else PREVIOUSEMP#(5,6)=AD83(17);
if AD83(144)>-4 then PREVIOUSEMP#(5,7)=AD83(144);   else PREVIOUSEMP#(5,7)=AD83(149);
if AD83(276)>-4 then PREVIOUSEMP#(5,8)=AD83(276);   else PREVIOUSEMP#(5,8)=AD83(281);
if AD83(408)>-4 then PREVIOUSEMP#(5,9)=AD83(408);   else PREVIOUSEMP#(5,9)=AD83(413);
PRETEN(5,6)=AD83(20);                PRETEN(5,7)=AD83(152);
PRETEN(5,8)=AD83(284);               PRETEN(5,9)=AD83(416);
OCCUPATION(5,6)=AD83(94);            OCCUPATION(5,7)=AD83(226);
OCCUPATION(5,8)=AD83(358);           OCCUPATION(5,9)=AD83(490);
INDUSTRY(5,6)=AD83(95);              INDUSTRY(5,7)=AD83(227);
INDUSTRY(5,8)=AD83(359);             INDUSTRY(5,9)=AD83(491);
CLASSWORKER(5,6)=AD83(96);           CLASSWORKER(5,7)=AD83(228);
CLASSWORKER(5,8)=AD83(360);          CLASSWORKER(5,9)=AD83(492);
HOURDAY(5,6)=AD83(88);               HOURDAY(5,7)=AD83(220);
HOURDAY(5,8)=AD83(352);              HOURDAY(5,9)=AD83(484);
PAYRATE(5,6)=AD83(99);               PAYRATE(5,7)=AD83(231);
PAYRATE(5,8)=AD83(363);              PAYRATE(5,9)=AD83(495);
TIMERATE(5,6)=AD83(101);             TIMERATE(5,7)=AD83(233);
TIMERATE(5,8)=AD83(365);             TIMERATE(5,9)=AD83(497);
UNION(5,6)=AD83(102);                UNION(5,7)=AD83(234);
UNION(5,8)=AD83(366);                UNION(5,9)=AD83(498);
GOVTJOB(5,6)=AD83(91);               GOVTJOB(5,7)=AD83(223);
GOVTJOB(5,8)=AD83(355);              GOVTJOB(5,9)=AD83(487);
N=21;
do J=6 to 9;
  if AD83(N)>-4 then do;
    START(5,J)=WEEK(AD83(N),AD83(N+1),AD83(N+2));
    STOP(5,J)=WEEK(AD83(N+4),AD83(N+5),AD83(N+6));
  end;
  N=N+132;
end;
N=24;
do J=6 to 9;
  CURRENT(5,J)=AD83(N);
  HOURSWEEK(5,J)=AD83(N+66);
  WEEKSNOTWORKED(5,J)=AD83(N+6);
  PAST(5,J)=AD83(N-6);
  P=N;
  do K=1 to 4;
    if AD83(P+8)>-4 then do;
      PERIODSTART(5,J,K)=WEEK(AD83(P+8),AD83(P+9),AD83(P+10));
      PERIODSTOP(5,J,K)=WEEK(AD83(P+11),AD83(P+12),AD83(P+13));
    end;
    REASON(5,J,K)=AD83(P+14);
    ALL(5,J,K)=AD83(P+15);
    LOOK(5,J,K)=AD83(P+19);
    P=P+14;
  end;
  N=N+132;
end;
end;
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 end VARIABLES1983;
1VARIABLES1984:PROC;
 STARTM(6,1)=Q7970;        STARTD(6,1)=Q7972;        STARTY(6,1)=Q7974;
 STARTM(6,2)=Q8370;        STARTD(6,2)=Q8372;        STARTY(6,2)=Q8374;
 STARTM(6,3)=Q8770;        STARTD(6,3)=Q8772;        STARTY(6,3)=Q8774;
 STARTM(6,4)=Q9170;        STARTD(6,4)=Q9172;        STARTY(6,4)=Q9174;
 STARTM(6,5)=Q9570;        STARTD(6,5)=Q9572;        STARTY(6,5)=Q9574;
 STOPM(6,1)=Q8010;         STOPD(6,1)=Q8012;         STOPY(6,1)=Q8014;
 STOPM(6,2)=Q8410;         STOPD(6,2)=Q8412;         STOPY(6,2)=Q8414;
 STOPM(6,3)=Q8810;         STOPD(6,3)=Q8812;         STOPY(6,3)=Q8814;
 STOPM(6,4)=Q9210;         STOPD(6,4)=Q9212;         STOPY(6,4)=Q9214;
 STOPM(6,5)=Q9610;         STOPD(6,5)=Q9612;         STOPY(6,5)=Q9614;
 if PR=1 then LASTINT(6)=CEIL(WEEK(X(2367),X(2368),79)+1/7);
 else if PR=2 then LASTINT(6)=CEIL(WEEK(X(3303),X(0930),80)+1/7);
 else if PR=3 then LASTINT(6)=CEIL(WEEK(X(5418),X(5419),81)+1/7);
 else if PR=4 then LASTINT(6)=CEIL(WEEK(X(8310),X(8311),82)+1/7);
 else LASTINT(6)=CEIL(WEEK(X(10644),X(10645),83)+1/7);
 INT(6)=FLOOR(WEEK(Q6144,Q6146,84));
 INTM(6)=Q6144;
 INTD(6)=Q6146;
 if WEIGHT(6)>0 then INTY(6)=84;
 HOURDAY(6,1)=Q8210;       HOURDAY(6,2)=Q8610;       HOURDAY(6,3)=Q9010;
 HOURDAY(6,4)=Q9410;       HOURDAY(6,5)=Q9810;
 PAYRATE(6,1)=Q8227;       PAYRATE(6,2)=Q8627;       PAYRATE(6,3)=Q9027;
 PAYRATE(6,4)=Q9427;       PAYRATE(6,5)=Q9827;
 TIMERATE(6,1)=Q8234;      TIMERATE(6,2)=Q8634;      TIMERATE(6,3)=Q9034;
 TIMERATE(6,4)=Q9434;      TIMERATE(6,5)=Q9834;
 UNION(6,1)=Q8236;         UNION(6,2)=Q8636;         UNION(6,3)=Q9036;
 UNION(6,4)=Q9436;         UNION(6,5)=Q9836;
 GOVTJOB(6,1)=Q8237;       GOVTJOB(6,2)=Q8637;       GOVTJOB(6,3)=Q9037;
 GOVTJOB(6,4)=Q9437;       GOVTJOB(6,5)=Q9837;
 if Q7958>-4 then PREVIOUSEMP#(6,1)=Q7958; else PREVIOUSEMP#(6,1)=Q7964;
 if Q8358>-4 then PREVIOUSEMP#(6,2)=Q8358; else PREVIOUSEMP#(6,2)=Q8364;
 if Q8758>-4 then PREVIOUSEMP#(6,3)=Q8758; else PREVIOUSEMP#(6,3)=Q8764;
 if Q9158>-4 then PREVIOUSEMP#(6,4)=Q9158; else PREVIOUSEMP#(6,4)=Q9164;
 if Q9558>-4 then PREVIOUSEMP#(6,5)=Q9558; else PREVIOUSEMP#(6,5)=Q9564;
 PRETEN(6,1)=Q7968;        PRETEN(6,2)=Q8368;        PRETEN(6,3)=Q8768;
 PRETEN(6,4)=Q9168;        PRETEN(6,5)=Q9568;
 if Q7970>-4 then do;
   START(6,1)=WEEK(Q7970,Q7972,Q7974);    STOP(6,1)=WEEK(Q8010,Q8012,Q8014);
 end;
 if Q8370>-4 then do;
   START(6,2)=WEEK(Q8370,Q8372,Q8374);    STOP(6,2)=WEEK(Q8410,Q8412,Q8414);
 end;
 if Q8770>-4 then do;
   START(6,3)=WEEK(Q8770,Q8772,Q8774);    STOP(6,3)=WEEK(Q8810,Q8812,Q8814);
 end;
 if Q9170>-4 then do;
   START(6,4)=WEEK(Q9170,Q9172,Q9174);    STOP(6,4)=WEEK(Q9210,Q9212,Q9214);
 end;
 if Q9570>-4 then do;
   START(6,5)=WEEK(Q9570,Q9572,Q9574);    STOP(6,5)=WEEK(Q9610,Q9612,Q9614);
 end;
 PAST(6,1)=Q7966;  PAST(6,2)=Q8366;  PAST(6,3)=Q8766;
 PAST(6,4)=Q9166;  PAST(6,5)=Q9566;
 CURRENT(6,1)=Q7976;       CURRENT(6,2)=Q8376;       CURRENT(6,3)=Q8776;
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CURRENT(6,4)=Q9176;        CURRENT(6,5)=Q9576;
WHYLEFT(6,1)=Q8016;        WHYLEFT(6,2)=Q8416;        WHYLEFT(6,3)=Q8816;
WHYLEFT(6,4)=Q9216;        WHYLEFT(6,5)=Q9616;
WEEKSNOTWORKED(6,1)=Q8019;        WEEKSNOTWORKED(6,2)=Q8419;
WEEKSNOTWORKED(6,3)=Q8819;        WEEKSNOTWORKED(6,4)=Q9219;
WEEKSNOTWORKED(6,5)=Q9619;
CPSJOB(6,1)=Q8212;        CPSJOB(6,2)=Q8612;        CPSJOB(6,3)=Q9012;
CPSJOB(6,4)=Q9412;        CPSJOB(6,5)=Q9812;
if Q8212=1 then do;
  INDUSTRY(6,1)=Q1752;                OCCUPATION(6,1)=Q1755;
  CLASSWORKER(6,1)=Q1765;             HOURSWEEK(6,1)=Q1768;
end;
else do;
  INDUSTRY(6,1)=Q8221;                OCCUPATION(6,1)=Q8218;
  CLASSWORKER(6,1)=Q8224;             HOURSWEEK(6,1)=Q8213;
end;
if Q8612=1 then do;
  INDUSTRY(6,2)=Q1752;                OCCUPATION(6,2)=Q1755;
  CLASSWORKER(6,2)=Q1765;             HOURSWEEK(6,2)=Q1768;
end;
else do;
  INDUSTRY(6,2)=Q8621;                OCCUPATION(6,2)=Q8618;
  CLASSWORKER(6,2)=Q8624;             HOURSWEEK(6,2)=Q8613;
end;
if Q9012=1 then do;
  INDUSTRY(6,3)=Q1752;                OCCUPATION(6,3)=Q1755;
  CLASSWORKER(6,3)=Q1765;             HOURSWEEK(6,3)=Q1768;
end;
else do;
  INDUSTRY(6,3)=Q9021;                OCCUPATION(6,3)=Q9018;
  CLASSWORKER(6,3)=Q9024;             HOURSWEEK(6,3)=Q9013;
end;
if Q9412=1 then do;
  INDUSTRY(6,4)=Q1752;                OCCUPATION(6,4)=Q1755;
  CLASSWORKER(6,4)=Q1765;             HOURSWEEK(6,4)=Q1768;
end;
else do;
  INDUSTRY(6,4)=Q9421;                OCCUPATION(6,4)=Q9418;
  CLASSWORKER(6,4)=Q9424;             HOURSWEEK(6,4)=Q9413;
end;
if Q9812=1 then do;
  INDUSTRY(6,5)=Q1752;                OCCUPATION(6,5)=Q1755;
  CLASSWORKER(6,5)=Q1765;             HOURSWEEK(6,5)=Q1768;
end;
else do;
  INDUSTRY(6,5)=Q9821;                OCCUPATION(6,5)=Q9818;
  CLASSWORKER(6,5)=Q9824;             HOURSWEEK(6,5)=Q9813;
end;
if Q8022>-4 then do;
  PERIODSTART(6,1,1)=WEEK(Q8022,Q8024,Q8026);
  PERIODSTOP(6,1,1)=WEEK(Q8028,Q8030,Q8032);
end;
if Q8054>-4 then do;
  PERIODSTART(6,1,2)=WEEK(Q8054,Q8056,Q8058);
  PERIODSTOP(6,1,2)=WEEK(Q8060,Q8062,Q8064);
end;
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if Q8115>-4 then do;
  PERIODSTART(6,1,3)=WEEK(Q8115,Q8117,Q8119);
  PERIODSTOP(6,1,3)=WEEK(Q8121,Q8123,Q8125);
end;
if Q8147>-4 then do;
  PERIODSTART(6,1,4)=WEEK(Q8147,Q8149,Q8151);
  PERIODSTOP(6,1,4)=WEEK(Q8153,Q8155,Q8157);
end;
if Q8422>-4 then do;
  PERIODSTART(6,2,1)=WEEK(Q8422,Q8424,Q8426);
  PERIODSTOP(6,2,1)=WEEK(Q8428,Q8430,Q8432);
end;
if Q8454>-4 then do;
  PERIODSTART(6,2,2)=WEEK(Q8454,Q8456,Q8458);
  PERIODSTOP(6,2,2)=WEEK(Q8460,Q8462,Q8464);
end;
if Q8515>-4 then do;
  PERIODSTART(6,2,3)=WEEK(Q8515,Q8517,Q8519);
  PERIODSTOP(6,2,3)=WEEK(Q8521,Q8523,Q8525);
end;
if Q8547>-4 then do;
  PERIODSTART(6,2,4)=WEEK(Q8547,Q8549,Q8551);
  PERIODSTOP(6,2,4)=WEEK(Q8553,Q8555,Q8557);
end;
if Q8822>-4 then do;
  PERIODSTART(6,3,1)=WEEK(Q8822,Q8824,Q8826);
  PERIODSTOP(6,3,1)=WEEK(Q8828,Q8830,Q8832);
end;
if Q8854>-4 then do;
  PERIODSTART(6,3,2)=WEEK(Q8854,Q8856,Q8858);
  PERIODSTOP(6,3,2)=WEEK(Q8860,Q8862,Q8864);
end;
if Q8915>-4 then do;
  PERIODSTART(6,3,3)=WEEK(Q8915,Q8917,Q8919);
  PERIODSTOP(6,3,3)=WEEK(Q8921,Q8923,Q8925);
end;
if Q8947>-4 then do;
  PERIODSTART(6,3,4)=WEEK(Q8947,Q8949,Q8951);
  PERIODSTOP(6,3,4)=WEEK(Q8953,Q8955,Q8957);
end;
if Q9222>-4 then do;
  PERIODSTART(6,4,1)=WEEK(Q9222,Q9224,Q9226);
  PERIODSTOP(6,4,1)=WEEK(Q9228,Q9230,Q9232);
end;
if Q9254>-4 then do;
  PERIODSTART(6,4,2)=WEEK(Q9254,Q9256,Q9258);
  PERIODSTOP(6,4,2)=WEEK(Q9260,Q9262,Q9264);
end;
if Q9315>-4 then do;
  PERIODSTART(6,4,3)=WEEK(Q9315,Q9317,Q9319);
  PERIODSTOP(6,4,3)=WEEK(Q9321,Q9323,Q9325);
end;
if Q9347>-4 then do;
  PERIODSTART(6,4,4)=WEEK(Q9347,Q9349,Q9351);
  PERIODSTOP(6,4,4)=WEEK(Q9353,Q9355,Q9357);
end;
```

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if Q9622>-4 then do;
  PERIODSTART(6,5,1)=WEEK(Q9622,Q9624,Q9626);
  PERIODSTOP(6,5,1)=WEEK(Q9628,Q9630,Q9632);
end;
if Q9654>-4 then do;
  PERIODSTART(6,5,2)=WEEK(Q9654,Q9656,Q9658);
  PERIODSTOP(6,5,2)=WEEK(Q9660,Q9662,Q9664);
end;
if Q9715>-4 then do;
  PERIODSTART(6,5,3)=WEEK(Q9715,Q9717,Q9719);
  PERIODSTOP(6,5,3)=WEEK(Q9721,Q9723,Q9725);
end;
if Q9747>-4 then do;
  PERIODSTART(6,5,4)=WEEK(Q9747,Q9749,Q9751);
  PERIODSTOP(6,5,4)=WEEK(Q9753,Q9755,Q9757);
end;
REASON(6,1,1)=Q8034;      REASON(6,1,2)=Q8066;      REASON(6,1,3)=Q8127;
REASON(6,1,4)=Q8159;      REASON(6,2,1)=Q8434;      REASON(6,2,2)=Q8466;
REASON(6,2,3)=Q8527;      REASON(6,2,4)=Q8559;      REASON(6,3,1)=Q8834;
REASON(6,3,2)=Q8866;      REASON(6,3,3)=Q8927;      REASON(6,3,4)=Q8959;
REASON(6,4,1)=Q9234;      REASON(6,4,2)=Q9266;      REASON(6,4,3)=Q9327;
REASON(6,4,4)=Q9359;      REASON(6,5,1)=Q9634;      REASON(6,5,2)=Q9666;
REASON(6,5,3)=Q9727;      REASON(6,5,4)=Q9759;
ALL(6,1,1)=Q8036;         ALL(6,1,2)=Q8068;         ALL(6,1,3)=Q8129;
ALL(6,1,4)=Q8161;         ALL(6,2,1)=Q8436;         ALL(6,2,2)=Q8468;
ALL(6,2,3)=Q8529;         ALL(6,2,4)=Q8561;         ALL(6,3,1)=Q8836;
ALL(6,3,2)=Q8868;         ALL(6,3,3)=Q8929;         ALL(6,3,4)=Q8961;
ALL(6,4,1)=Q9236;         ALL(6,4,2)=Q9268;         ALL(6,4,3)=Q9329;
ALL(6,4,4)=Q9361;         ALL(6,5,1)=Q9636;         ALL(6,5,2)=Q9668;
ALL(6,5,3)=Q9729;         ALL(6,5,4)=Q9761;
LOOK(6,1,1)=Q8046;        LOOK(6,1,2)=Q8078;        LOOK(6,1,3)=Q8139;
LOOK(6,1,4)=Q8171;        LOOK(6,2,1)=Q8446;        LOOK(6,2,2)=Q8478;
LOOK(6,2,3)=Q8539;        LOOK(6,2,4)=Q8571;        LOOK(6,3,1)=Q8846;
LOOK(6,3,2)=Q8878;        LOOK(6,3,3)=Q8939;        LOOK(6,3,4)=Q8971;
LOOK(6,4,1)=Q9246;        LOOK(6,4,2)=Q9278;        LOOK(6,4,3)=Q9339;
LOOK(6,4,4)=Q9371;        LOOK(6,5,1)=Q9646;        LOOK(6,5,2)=Q9678;
LOOK(6,5,3)=Q9739;        LOOK(6,5,4)=Q9771;
if Q1919>-4 then do;
  BSTART(6,1)=WEEK(Q1919,Q1921,Q1923);   BSTOP(6,1)=WEEK(Q1925,Q1927,Q1929);
end;
if Q1949>-4 then do;
  BSTART(6,2)=WEEK(Q1949,Q1951,Q1953);   BSTOP(6,2)=WEEK(Q1955,Q1957,Q1959);
end;
if Q2010>-4 then do;
  BSTART(6,3)=WEEK(Q2010,Q2012,Q2014);   BSTOP(6,3)=WEEK(Q2016,Q2018,Q2020);
end;
if Q2040>-4 then do;
  BSTART(6,4)=WEEK(Q2040,Q2042,Q2044);   BSTOP(6,4)=WEEK(Q2046,Q2048,Q2050);
end;
if Q2110>-4 then do;
  BSTART(6,5)=WEEK(Q2110,Q2112,Q2114);   BSTOP(6,5)=WEEK(Q2116,Q2118,Q2120);
end;
if Q2140>-4 then do;
  BSTART(6,6)=WEEK(Q2140,Q2142,Q2144);   BSTOP(6,6)=WEEK(Q2146,Q2148,Q2150);
end;
BALL(6,1)=Q1931;          BALL(6,2)=Q1961;          BALL(6,3)=Q2022;
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BALL(6,4)=Q2052;          BALL(6,5)=Q2122;          BALL(6,6)=Q2152;
BLOOK(6,1)=Q1941;         BLOOK(6,2)=Q1971;         BLOOK(6,3)=Q2032;
BLOOK(6,4)=Q2062;         BLOOK(6,5)=Q2132;         BLOOK(6,6)=Q2162;
BREASON(6,1)=Q1947;       BREASON(6,2)=Q1977;       BREASON(6,3)=Q2038;
BREASON(6,4)=Q2068;       BREASON(6,5)=Q2138;
if Q0810=1 & Q6323>=1 & Q6323<=4 then do;
  if Q0911=1 then MSTOP1(6)=INT(6);
  else MSTOP1(6)=WEEK(Q0913,Q0918,Q0915);
  MSTART1(6)=LASTINT(6);
  if MSTART1(6)>=0 & MSTOP1(6)>=MSTART1(6) then call FILL(MSTART1(6),MSTOP1(6),7,0);
end;
if Q1046>=1 & Q1046<=4 then do;
  if Q1058=1 then do;
    MSTART2(6)=WEEK(Q1059,Q1064,Q1061);
    MSTOP2(6)=INT(6);
  end;
  else if Q1428=1 then do;
    MSTART2(6)=WEEK(Q1429,Q1431,Q1433);
    MSTOP2(6)=WEEK(Q1436,Q1438,Q1440);
  end;
  if MSTART2(6)>=0 & MSTOP2(6)>=MSTART2(6) then call FILL(MSTART2(6),MSTOP2(6),7,0);
end;
if MSTART1(6)>-4 | MSTART2(6)>-4 | MSTOP1(6)>-4 | MSTOP2(6)>-4 then do;
  if MSTART1(6)=-3 | MSTART2(6)=-3 | MSTOP1(6)=-3 | MSTOP2(6)=-3 then do;
    MILWKSL(6)=-3;
    MILWKSC(6)=-3;
  end;
  else do;
    MILWKSC(6)=0;
    MILWKSL(6)=0;
    if MSTART1(6)>=0 then MILWKSL(6)=MSTOP1(6) - MSTART1(6) + 1;
    if MSTART2(6)>=0 then MILWKSL(6)=MILWKSL(6) + MSTOP2(6) - MSTART2(6) + 1;
    MILWKSL(6)=FLOOR(MILWKSL(6)+.5);
  end;
end;
if X(0001)=466 | X(0001)=1106 | X(0001)=1420 | X(0001)=1486 | X(0001)=3989 | X(0001)=4029 |
      X(0001)=4166 | X(0001)=4654 | X(0001)=4704 | X(0001)=4836 | X(0001)=5541 | X(0001)=5691 |
      X(0001)=6125 | X(0001)=6921 | X(0001)=7062 | X(0001)=7185 | X(0001)=8421 | X(0001)=9187 |
      X(0001)=9846 | X(0001)=10095 | X(0001)=10262 | X(0001)=10312 | X(0001)=10575 | X(0001)=11079
      | X(0001)=11158 | X(0001)=11336 | X(0001)=12008 | X(0001)=12067 then do;
  allocate AD84;
  read file(ADD84) into(AD84);
  STARTM(6,6)=AD84(22);          STARTD(6,6)=AD84(23);
  STARTY(6,6)=AD84(24);          STARTM(6,7)=AD84(153);
  STARTD(6,7)=AD84(154);         STARTY(6,7)=AD84(155);
  STARTM(6,8)=AD84(284);         STARTD(6,8)=AD84(285);
  STARTY(6,8)=AD84(286);         STARTM(6,9)=AD84(415);
  STARTD(6,9)=AD84(416);         STARTY(6,9)=AD84(417);
  STARTM(6,10)=AD84(546);        STARTD(6,10)=AD84(547);
  STARTY(6,10)=AD84(548);        STOPM(6,6)=AD84(26);
  STOPD(6,6)=AD84(27);           STOPY(6,6)=AD84(28);
  STOPM(6,7)=AD84(157);          STOPD(6,7)=AD84(158);
  STOPY(6,7)=AD84(159);          STOPM(6,8)=AD84(288);
  STOPD(6,8)=AD84(289);          STOPY(6,8)=AD84(290);
  STOPM(6,9)=AD84(419);          STOPD(6,9)=AD84(420);
  STOPY(6,9)=AD84(421);          STOPM(6,10)=AD84(550);
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STOPD(6,10)=AD84(551);                STOPY(6,10)=AD84(552);
if AD84(13)>-4 then PREVIOUSEMP#(6,6)=AD84(13);    else PREVIOUSEMP#(6,6)=AD84(18);
if AD84(144)>-4 then PREVIOUSEMP#(6,7)=AD84(144);   else PREVIOUSEMP#(6,7)=AD84(149);
if AD84(275)>-4 then PREVIOUSEMP#(6,8)=AD84(275);   else PREVIOUSEMP#(6,8)=AD84(280);
if AD84(406)>-4 then PREVIOUSEMP#(6,9)=AD84(406);   else PREVIOUSEMP#(6,9)=AD84(411);
if AD84(537)>-4 then PREVIOUSEMP#(6,10)=AD84(537);   else PREVIOUSEMP#(6,10)=AD84(542);
PRETEN(6,6)=AD84(21);                PRETEN(6,7)=AD84(152);
PRETEN(6,8)=AD84(283);                PRETEN(6,9)=AD84(414);
PRETEN(6,10)=AD84(545);
OCCUPATION(6,6)=AD84(95);            OCCUPATION(6,7)=AD84(226);
OCCUPATION(6,8)=AD84(357);            OCCUPATION(6,9)=AD84(488);
OCCUPATION(6,10)=AD84(619);
INDUSTRY(6,6)=AD84(96);              INDUSTRY(6,7)=AD84(227);
INDUSTRY(6,8)=AD84(358);              INDUSTRY(6,9)=AD84(489);
INDUSTRY(6,10)=AD84(620);
CLASSWORKER(6,6)=AD84(97);           CLASSWORKER(6,7)=AD84(228);
CLASSWORKER(6,8)=AD84(359);           CLASSWORKER(6,9)=AD84(490);
CLASSWORKER(6,10)=AD84(621);
HOURDAY(6,6)=AD84(89);               HOURDAY(6,7)=AD84(220);
HOURDAY(6,8)=AD84(351);               HOURDAY(6,9)=AD84(482);
HOURDAY(6,10)=AD84(613);
PAYRATE(6,6)=AD84(100);              PAYRATE(6,7)=AD84(231);
PAYRATE(6,8)=AD84(362);               PAYRATE(6,9)=AD84(493);
PAYRATE(6,10)=AD84(624);
TIMERATE(6,6)=AD84(102);             TIMERATE(6,7)=AD84(233);
TIMERATE(6,8)=AD84(364);              TIMERATE(6,9)=AD84(495);
TIMERATE(6,10)=AD84(626);
UNION(6,6)=AD84(103);                UNION(6,7)=AD84(234);
UNION(6,8)=AD84(365);                 UNION(6,9)=AD84(496);
UNION(6,10)=AD84(627);
GOVTJOB(6,6)=AD84(92);               GOVTJOB(6,7)=AD84(223);
GOVTJOB(6,8)=AD84(354);               GOVTJOB(6,9)=AD84(485);
GOVTJOB(6,10)=AD84(616);
N=22;
do J=6 to 10;
  if AD84(N)>-4 then do;
    START(6,J)=WEEK(AD84(N),AD84(N+1),AD84(N+2));
    STOP(6,J)=WEEK(AD84(N+4),AD84(N+5),AD84(N+6));
  end;
  N=N+131;
end;
N=25;
do J=6 to 10;
  CURRENT(6,J)=AD84(N);
  HOURSWEEK(6,J)=AD84(N+66);
  WEEKSNOTWORKED(6,J)=AD84(N+6);
  PAST(6,J)=AD84(N-6);
  P=N;
  do K=1 to 4;
    if AD84(P+8)>-4 then do;
      PERIODSTART(6,J,K)=WEEK(AD84(P+8),AD84(P+9),AD84(P+10));
      PERIODSTOP(6,J,K)=WEEK(AD84(P+11),AD84(P+12),AD84(P+13));
    end;
    REASON(6,J,K)=AD84(P+14);
    ALL(6,J,K)=AD84(P+15);
    LOOK(6,J,K)=AD84(P+19);
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      P=P+14;
    end;
    N=N+131;
  end;
  FREE AD84;
end;
end VARIABLES1984;

1VARIABLES1985:PROC;
STARTM(7,1)=QQ5862;        STARTD(7,1)=QQ5864;        STARTY(7,1)=QQ5866;
STARTM(7,2)=QQ6262;        STARTD(7,2)=QQ6264;        STARTY(7,2)=QQ6266;
STARTM(7,3)=QQ6662;        STARTD(7,3)=QQ6664;        STARTY(7,3)=QQ6666;
STARTM(7,4)=QQ7062;        STARTD(7,4)=QQ7064;        STARTY(7,4)=QQ7066;
STARTM(7,5)=QQ7462;        STARTD(7,5)=QQ7464;        STARTY(7,5)=QQ7466;
STOPM(7,1)=QQ5910;         STOPD(7,1)=QQ5912;         STOPY(7,1)=QQ5914;
STOPM(7,2)=QQ6310;         STOPD(7,2)=QQ6312;         STOPY(7,2)=QQ6314;
STOPM(7,3)=QQ6710;         STOPD(7,3)=QQ6712;         STOPY(7,3)=QQ6714;
STOPM(7,4)=QQ7110;         STOPD(7,4)=QQ7112;         STOPY(7,4)=QQ7114;
STOPM(7,5)=QQ7510;         STOPD(7,5)=QQ7512;         STOPY(7,5)=QQ7514;
if PR=1 then LASTINT(7)=CEIL(WEEK(X(2367),X(2368),79)+1/7);
else if PR=2 then LASTINT(7)=CEIL(WEEK(X(3303),X(0930),80)+1/7);
else if PR=3 then LASTINT(7)=CEIL(WEEK(X(5418),X(5419),81)+1/7);
else if PR=4 then LASTINT(7)=CEIL(WEEK(X(8310),X(8311),82)+1/7);
else if PR=5 then LASTINT(7)=CEIL(WEEK(X(10644),X(10645),83)+1/7);
else LASTINT(7)=CEIL(WEEK(Q6144,Q6146,84)+1/7);
INT(7)=FLOOR(WEEK(QQ5532,QQ5534,85));
INTM(7)=QQ5532;
INTD(7)=QQ5534;
if WEIGHT(7)>0 then INTY(7)=85;
HOURDAY(7,1)=QQ6110;       HOURDAY(7,2)=QQ6510;       HOURDAY(7,3)=QQ6910;
HOURDAY(7,4)=QQ7310;       HOURDAY(7,5)=QQ7710;
PAYRATE(7,1)=QQ6127;       PAYRATE(7,2)=QQ6527;       PAYRATE(7,3)=QQ6927;
PAYRATE(7,4)=QQ7327;       PAYRATE(7,5)=QQ7727;
TIMERATE(7,1)=QQ6134;      TIMERATE(7,2)=QQ6534;      TIMERATE(7,3)=QQ6934;
TIMERATE(7,4)=QQ7334;      TIMERATE(7,5)=QQ7734;
UNION(7,1)=QQ6136;         UNION(7,2)=QQ6536;         UNION(7,3)=QQ6936;
UNION(7,4)=QQ7336;         UNION(7,5)=QQ7736;
GOVTJOB(7,1)=QQ6137;       GOVTJOB(7,2)=QQ6537;       GOVTJOB(7,3)=QQ6937;
GOVTJOB(7,4)=QQ7337;       GOVTJOB(7,5)=QQ7737;
if QQ5850>-4 then PREVIOUSEMP#(7,1)=QQ5850; else PREVIOUSEMP#(7,1)=QQ5856;
if QQ6250>-4 then PREVIOUSEMP#(7,2)=QQ6250; else PREVIOUSEMP#(7,2)=QQ6256;
if QQ6650>-4 then PREVIOUSEMP#(7,3)=QQ6650; else PREVIOUSEMP#(7,3)=QQ6656;
if QQ7050>-4 then PREVIOUSEMP#(7,4)=QQ7050; else PREVIOUSEMP#(7,4)=QQ7056;
if QQ7450>-4 then PREVIOUSEMP#(7,5)=QQ7450; else PREVIOUSEMP#(7,5)=QQ7456;
PRETEN(7,1)=QQ5860;        PRETEN(7,2)=QQ6260;        PRETEN(7,3)=QQ6660;
PRETEN(7,4)=QQ7060;        PRETEN(7,5)=QQ7460;
if QQ5862>-4 then do;
  START(7,1)=WEEK(QQ5862,QQ5864,QQ5866);   STOP(7,1)=WEEK(QQ5910,QQ5912,QQ5914);
end;
if QQ6262>-4 then do;
  START(7,2)=WEEK(QQ6262,QQ6264,QQ6266);   STOP(7,2)=WEEK(QQ6310,QQ6312,QQ6314);
end;
if QQ6662>-4 then do;
  START(7,3)=WEEK(QQ6662,QQ6664,QQ6666);   STOP(7,3)=WEEK(QQ6710,QQ6712,QQ6714);
end;
if QQ7062>-4 then do;
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   START(7,4)=WEEK(QQ7062,QQ7064,QQ7066);    STOP(7,4)=WEEK(QQ7110,QQ7112,QQ7114);
end;
if QQ7462>-4 then do;
   START(7,5)=WEEK(QQ7462,QQ7464,QQ7466);    STOP(7,5)=WEEK(QQ7510,QQ7512,QQ7514);
end;
PAST(7,1)=QQ5858;          PAST(7,2)=QQ6258;          PAST(7,3)=QQ6658;
PAST(7,4)=QQ7058;          PAST(7,5)=QQ7458;
CURRENT(7,1)=QQ5868;       CURRENT(7,2)=QQ6268;       CURRENT(7,3)=QQ6668;
CURRENT(7,4)=QQ7068;       CURRENT(7,5)=QQ7468;
WHYLEFT(7,1)=QQ5916;       WHYLEFT(7,2)=QQ6316;       WHYLEFT(7,3)=QQ6716;
WHYLEFT(7,4)=QQ7116;       WHYLEFT(7,5)=QQ7516;
WEEKSNOTWORKED(7,1)=QQ5919;   WEEKSNOTWORKED(7,2)=QQ6319;
WEEKSNOTWORKED(7,3)=QQ6719;   WEEKSNOTWORKED(7,4)=QQ7119;
WEEKSNOTWORKED(7,5)=QQ7519;
CPSJOB(7,1)=QQ6112;        CPSJOB(7,2)=QQ6512;        CPSJOB(7,3)=QQ6912;
CPSJOB(7,4)=QQ7312;        CPSJOB(7,5)=QQ7712;
if QQ6112=1 then do;
   INDUSTRY(7,1)=QQ1652;               OCCUPATION(7,1)=QQ1655;
   CLASSWORKER(7,1)=QQ1665;            HOURSWEEK(7,1)=QQ1668;
end;
else do;
   INDUSTRY(7,1)=QQ6121;               OCCUPATION(7,1)=QQ6118;
   CLASSWORKER(7,1)=QQ6124;            HOURSWEEK(7,1)=QQ6113;
end;
if QQ6512=1 then do;
   INDUSTRY(7,2)=QQ1652;               OCCUPATION(7,2)=QQ1655;
   CLASSWORKER(7,2)=QQ1665;            HOURSWEEK(7,2)=QQ1668;
end;
else do;
   INDUSTRY(7,2)=QQ6521;               OCCUPATION(7,2)=QQ6518;
   CLASSWORKER(7,2)=QQ6524;            HOURSWEEK(7,2)=QQ6513;
end;
if QQ6912=1 then do;
   INDUSTRY(7,3)=QQ1652;               OCCUPATION(7,3)=QQ1655;
   CLASSWORKER(7,3)=QQ1665;            HOURSWEEK(7,3)=QQ1668;
end;
else do;
   INDUSTRY(7,3)=QQ6921;               OCCUPATION(7,3)=QQ6918;
   CLASSWORKER(7,3)=QQ6924;            HOURSWEEK(7,3)=QQ6913;
end;
if QQ7312=1 then do;
   INDUSTRY(7,4)=QQ1652;               OCCUPATION(7,4)=QQ1655;
   CLASSWORKER(7,4)=QQ1665;            HOURSWEEK(7,4)=QQ1668;
end;
else do;
   INDUSTRY(7,4)=QQ7321;               OCCUPATION(7,4)=QQ7318;
   CLASSWORKER(7,4)=QQ7324;            HOURSWEEK(7,4)=QQ7313;
end;
if QQ7712=1 then do;
   INDUSTRY(7,5)=QQ1652;               OCCUPATION(7,5)=QQ1655;
   CLASSWORKER(7,5)=QQ1665;            HOURSWEEK(7,5)=QQ1668;
end;
else do;
   INDUSTRY(7,5)=QQ7721;               OCCUPATION(7,5)=QQ7718;
   CLASSWORKER(7,5)=QQ7724;            HOURSWEEK(7,5)=QQ7713;
end;
```

```
if QQ5922>-4 then do;
  PERIODSTART(7,1,1)=WEEK(QQ5922,QQ5924,QQ5926);
  PERIODSTOP(7,1,1)=WEEK(QQ5928,QQ5930,QQ5932);
end;
if QQ5954>-4 then do;
  PERIODSTART(7,1,2)=WEEK(QQ5954,QQ5956,QQ5958);
  PERIODSTOP(7,1,2)=WEEK(QQ5960,QQ5962,QQ5964);
end;
if QQ6015>-4 then do;
  PERIODSTART(7,1,3)=WEEK(QQ6015,QQ6017,QQ6019);
  PERIODSTOP(7,1,3)=WEEK(QQ6021,QQ6023,QQ6025);
end;
if QQ6047>-4 then do;
  PERIODSTART(7,1,4)=WEEK(QQ6047,QQ6049,QQ6051);
  PERIODSTOP(7,1,4)=WEEK(QQ6053,QQ6055,QQ6057);
end;
if QQ6322>-4 then do;
  PERIODSTART(7,2,1)=WEEK(QQ6322,QQ6324,QQ6326);
  PERIODSTOP(7,2,1)=WEEK(QQ6328,QQ6330,QQ6332);
end;
if QQ6354>-4 then do;
  PERIODSTART(7,2,2)=WEEK(QQ6354,QQ6356,QQ6358);
  PERIODSTOP(7,2,2)=WEEK(QQ6360,QQ6362,QQ6364);
end;
if QQ6415>-4 then do;
  PERIODSTART(7,2,3)=WEEK(QQ6415,QQ6417,QQ6419);
  PERIODSTOP(7,2,3)=WEEK(QQ6421,QQ6423,QQ6425);
end;
if QQ6447>-4 then do;
  PERIODSTART(7,2,4)=WEEK(QQ6447,QQ6449,QQ6451);
  PERIODSTOP(7,2,4)=WEEK(QQ6453,QQ6455,QQ6457);
end;
if QQ6722>-4 then do;
  PERIODSTART(7,3,1)=WEEK(QQ6722,QQ6724,QQ6726);
  PERIODSTOP(7,3,1)=WEEK(QQ6728,QQ6730,QQ6732);
end;
if QQ6754>-4 then do;
  PERIODSTART(7,3,2)=WEEK(QQ6754,QQ6756,QQ6758);
  PERIODSTOP(7,3,2)=WEEK(QQ6760,QQ6762,QQ6764);
end;
if QQ6815>-4 then do;
  PERIODSTART(7,3,3)=WEEK(QQ6815,QQ6817,QQ6819);
  PERIODSTOP(7,3,3)=WEEK(QQ6821,QQ6823,QQ6825);
end;
if QQ6847>-4 then do;
  PERIODSTART(7,3,4)=WEEK(QQ6847,QQ6849,QQ6851);
  PERIODSTOP(7,3,4)=WEEK(QQ6853,QQ6855,QQ6857);
end;
if QQ7122>-4 then do;
  PERIODSTART(7,4,1)=WEEK(QQ7122,QQ7124,QQ7126);
  PERIODSTOP(7,4,1)=WEEK(QQ7128,QQ7130,QQ7132);
end;
if QQ7154>-4 then do;
  PERIODSTART(7,4,2)=WEEK(QQ7154,QQ7156,QQ7158);
  PERIODSTOP(7,4,2)=WEEK(QQ7160,QQ7162,QQ7164);
end;
```

```
if QQ7215>-4 then do;
  PERIODSTART(7,4,3)=WEEK(QQ7215,QQ7217,QQ7219);
  PERIODSTOP(7,4,3)=WEEK(QQ7221,QQ7223,QQ7225);
end;
if QQ7247>-4 then do;
  PERIODSTART(7,4,4)=WEEK(QQ7247,QQ7249,QQ7251);
  PERIODSTOP(7,4,4)=WEEK(QQ7253,QQ7255,QQ7257);
end;
if QQ7522>-4 then do;
  PERIODSTART(7,5,1)=WEEK(QQ7522,QQ7524,QQ7526);
  PERIODSTOP(7,5,1)=WEEK(QQ7528,QQ7530,QQ7532);
end;
if QQ7554>-4 then do;
  PERIODSTART(7,5,2)=WEEK(QQ7554,QQ7556,QQ7558);
  PERIODSTOP(7,5,2)=WEEK(QQ7560,QQ7562,QQ7564);
end;
if QQ7615>-4 then do;
  PERIODSTART(7,5,3)=WEEK(QQ7615,QQ7617,QQ7619);
  PERIODSTOP(7,5,3)=WEEK(QQ7621,QQ7623,QQ7625);
end;
if QQ7647>-4 then do;
  PERIODSTART(7,5,4)=WEEK(QQ7647,QQ7649,QQ7651);
  PERIODSTOP(7,5,4)=WEEK(QQ7653,QQ7655,QQ7657);
end;
REASON(7,1,1)=QQ5934;      REASON(7,1,2)=QQ5966;      REASON(7,1,3)=QQ6027;
REASON(7,1,4)=QQ6059;      REASON(7,2,1)=QQ6334;      REASON(7,2,2)=QQ6366;
REASON(7,2,3)=QQ6427;      REASON(7,2,4)=QQ6459;      REASON(7,3,1)=QQ6734;
REASON(7,3,2)=QQ6766;      REASON(7,3,3)=QQ6827;      REASON(7,3,4)=QQ6859;
REASON(7,4,1)=QQ7134;      REASON(7,4,2)=QQ7166;      REASON(7,4,3)=QQ7227;
REASON(7,4,4)=QQ7259;      REASON(7,5,1)=QQ7534;      REASON(7,5,2)=QQ7566;
REASON(7,5,3)=QQ7627;      REASON(7,5,4)=QQ7659;
ALL(7,1,1)=QQ5936;         ALL(7,1,2)=QQ5968;         ALL(7,1,3)=QQ6029;
ALL(7,1,4)=QQ6061;         ALL(7,2,1)=QQ6336;         ALL(7,2,2)=QQ6368;
ALL(7,2,3)=QQ6429;         ALL(7,2,4)=QQ6461;         ALL(7,3,1)=QQ6736;
ALL(7,3,2)=QQ6768;         ALL(7,3,3)=QQ6829;         ALL(7,3,4)=QQ6861;
ALL(7,4,1)=QQ7136;         ALL(7,4,2)=QQ7168;         ALL(7,4,3)=QQ7229;
ALL(7,4,4)=QQ7261;         ALL(7,5,1)=QQ7536;         ALL(7,5,2)=QQ7568;
ALL(7,5,3)=QQ7629;         ALL(7,5,4)=QQ7661;
LOOK(7,1,1)=QQ5946;        LOOK(7,1,2)=QQ5978;        LOOK(7,1,3)=QQ6039;
LOOK(7,1,4)=QQ6071;        LOOK(7,2,1)=QQ6346;        LOOK(7,2,2)=QQ6378;
LOOK(7,2,3)=QQ6439;        LOOK(7,2,4)=QQ6471;        LOOK(7,3,1)=QQ6746;
LOOK(7,3,2)=QQ6778;        LOOK(7,3,3)=QQ6839;        LOOK(7,3,4)=QQ6871;
LOOK(7,4,1)=QQ7146;        LOOK(7,4,2)=QQ7178;        LOOK(7,4,3)=QQ7239;
LOOK(7,4,4)=QQ7271;        LOOK(7,5,1)=QQ7546;        LOOK(7,5,2)=QQ7578;
LOOK(7,5,3)=QQ7639;        LOOK(7,5,4)=QQ7671;
if QQ1728>-4 then do;
  BSTART(7,1)=WEEK(QQ1728,QQ1730,QQ1732);   BSTOP(7,1)=WEEK(QQ1734,QQ1736,QQ1738);
end;
if QQ1758>-4 then do;
  BSTART(7,2)=WEEK(QQ1758,QQ1760,QQ1762);   BSTOP(7,2)=WEEK(QQ1764,QQ1766,QQ1768);
end;
if QQ1818>-4 then do;
  BSTART(7,3)=WEEK(QQ1818,QQ1820,QQ1822);   BSTOP(7,3)=WEEK(QQ1824,QQ1826,QQ1828);
end;
if QQ1848>-4 then do;
  BSTART(7,4)=WEEK(QQ1848,QQ1850,QQ1852);   BSTOP(7,4)=WEEK(QQ1854,QQ1856,QQ1858);
```

```
end;
if QQ1910>-4 then do;
  BSTART(7,5)=WEEK(QQ1910,QQ1912,QQ1914);   BSTOP(7,5)=WEEK(QQ1916,QQ1918,QQ1920);
end;
if QQ1940>-4 then do;
  BSTART(7,6)=WEEK(QQ1940,QQ1942,QQ1944);   BSTOP(7,6)=WEEK(QQ1946,QQ1948,QQ1950);
end;
BALL(7,1)=QQ1740;          BALL(7,2)=QQ1770;          BALL(7,3)=QQ1830;
BALL(7,4)=QQ1860;          BALL(7,5)=QQ1922;          BALL(7,6)=QQ1952;
BLOOK(7,1)=QQ1750;         BLOOK(7,2)=QQ1810;         BLOOK(7,3)=QQ1840;
BLOOK(7,4)=QQ1870;         BLOOK(7,5)=QQ1932;         BLOOK(7,6)=QQ1962;
BREASON(7,1)=QQ1756;       BREASON(7,2)=QQ1816;       BREASON(7,3)=QQ1846;
BREASON(7,4)=QQ1876;       BREASON(7,5)=QQ1938;
if QQ0710=1 & QQ7825>=1 & QQ7825<=4 then do;
  if QQ0816=1 then MSTOP1(7)=INT(7);
  else MSTOP1(7)=WEEK(QQ0818,QQ0823,QQ0820);
  MSTART1(7)=LASTINT(7);
  if MSTART1(7)>=0 & MSTOP1(7)>=MSTART1(7) then call FILL(MSTART1(7),MSTOP1(7),7,0);
end;
if QQ0950>=1 & QQ0950<=4 then do;
  if QQ0962=1 then do;
    MSTART2(7)=WEEK(QQ0963,QQ0968,QQ0965);
    MSTOP2(7)=INT(7);
  end;
  else if QQ1328=1 then do;
    MSTART2(7)=WEEK(QQ1329,QQ1331,QQ1333);
    MSTOP2(7)=WEEK(QQ1336,QQ1338,QQ1340);
  end;
  if MSTART2(7)>=0 & MSTOP2(7)>=MSTART2(7) then call FILL(MSTART2(7),MSTOP2(7),7,0);
end;
if MSTART1(7)>-4 | MSTART2(7)>-4 | MSTOP1(7)>-4 | MSTOP2(7)>-4 then do;
  if MSTART1(7)=-3 | MSTART2(7)=-3 | MSTOP1(7)=-3 | MSTOP2(7)=-3 then do;
    MILWKSL(7)=-3;
    MILWKSC(7)=-3;
  end;
  else do;
    MILWKSC(7)=0;
    MILWKSL(7)=0;
    if MSTART1(7)>=0 then MILWKSL(7)=MSTOP1(7) - MSTART1(7) + 1;
    if MSTART2(7)>=0 then MILWKSL(7)=MILWKSL(7) + MSTOP2(7) - MSTART2(7) + 1;
    MILWKSL(7)=FLOOR(MILWKSL(7)+.5);
  end;
end;
if X(0001)=22 | X(0001)=215 | X(0001)=229 | X(0001)=346 | X(0001)=580 | X(0001)=703 | X(0001)=1089 |
        X(0001)=1106 | X(0001)=1257 | X(0001)=1322 | X(0001)=2030 | X(0001)=2631 | X(0001)=3145 |
        X(0001)=3165 | X(0001)=3255 | X(0001)=3267 | X(0001)=3933 | X(0001)=4324 | X(0001)=4824 |
        X(0001)=5516 | X(0001)=5668 | X(0001)=6494 | X(0001)=6545 | X(0001)=6921 | X(0001)=6936 |
        X(0001)=7145 | X(0001)=7525 | X(0001)=8070 | X(0001)=8262 | X(0001)=8322 | X(0001)=8438 |
        X(0001)=8760 | X(0001)=9041 | X(0001)=9618 | X(0001)=9715 | X(0001)=10465 then do;
  allocate AD85;
  read file(ADD85) into(AD85);
  STARTM(7,6)=AD85(18);              STARTD(7,6)=AD85(19);
  STARTY(7,6)=AD85(20);              STARTM(7,7)=AD85(145);
  STARTD(7,7)=AD85(146);             STARTY(7,7)=AD85(147);
  STARTM(7,8)=AD85(272);             STARTD(7,8)=AD85(273);
  STARTY(7,8)=AD85(274);             STARTM(7,9)=AD85(399);
```

```
STARTD(7,9)=AD85(400);              STARTY(7,9)=AD85(401);
STARTM(7,10)=AD85(526);             STARTD(7,10)=AD85(527);
STARTY(7,10)=AD85(528);             STOPM(7,6)=AD85(22);
STOPD(7,6)=AD85(23);                STOPY(7,6)=AD85(24);
STOPM(7,7)=AD85(149);               STOPD(7,7)=AD85(150);
STOPY(7,7)=AD85(151);               STOPM(7,8)=AD85(276);
STOPD(7,8)=AD85(277);               STOPY(7,8)=AD85(278);
STOPM(7,9)=AD85(403);               STOPD(7,9)=AD85(404);
STOPY(7,9)=AD85(405);               STOPM(7,10)=AD85(530);
STOPD(7,10)=AD85(531);              STOPY(7,10)=AD85(532);
if AD85(9)>-4 then PREVIOUSEMP#(7,6)=AD85(9);   else PREVIOUSEMP#(7,6)=AD85(14);
if AD85(136)>-4 then PREVIOUSEMP#(7,7)=AD85(136);   else PREVIOUSEMP#(7,7)=AD85(141);
if AD85(263)>-4 then PREVIOUSEMP#(7,8)=AD85(263);   else PREVIOUSEMP#(7,8)=AD85(268);
if AD85(390)>-4 then PREVIOUSEMP#(7,9)=AD85(390);   else PREVIOUSEMP#(7,9)=AD85(395);
if AD85(517)>-4 then PREVIOUSEMP#(7,10)=AD85(517);   else PREVIOUSEMP#(7,10)=AD85(522);
PRETEN(7,6)=AD85(17);               PRETEN(7,7)=AD85(144);
PRETEN(7,8)=AD85(271);              PRETEN(7,9)=AD85(398);
PRETEN(7,10)=AD85(525);
OCCUPATION(7,6)=AD85(91);           OCCUPATION(7,7)=AD85(218);
OCCUPATION(7,8)=AD85(345);          OCCUPATION(7,9)=AD85(472);
OCCUPATION(7,10)=AD85(599);
INDUSTRY(7,6)=AD85(92);             INDUSTRY(7,7)=AD85(219);
INDUSTRY(7,8)=AD85(346);            INDUSTRY(7,9)=AD85(473);
INDUSTRY(7,10)=AD85(600);
CLASSWORKER(7,6)=AD85(93);          CLASSWORKER(7,7)=AD85(220);
CLASSWORKER(7,8)=AD85(347);         CLASSWORKER(7,9)=AD85(474);
CLASSWORKER(7,10)=AD85(601);
HOURDAY(7,6)=AD85(85);              HOURDAY(7,7)=AD85(212);
HOURDAY(7,8)=AD85(339);             HOURDAY(7,9)=AD85(466);
HOURDAY(7,10)=AD85(593);
PAYRATE(7,6)=AD85(96);              PAYRATE(7,7)=AD85(223);
PAYRATE(7,8)=AD85(350);             PAYRATE(7,9)=AD85(477);
PAYRATE(7,10)=AD85(604);
TIMERATE(7,6)=AD85(98);             TIMERATE(7,7)=AD85(225);
TIMERATE(7,8)=AD85(352);            TIMERATE(7,9)=AD85(479);
TIMERATE(7,10)=AD85(606);
UNION(7,6)=AD85(99);                UNION(7,7)=AD85(226);
UNION(7,8)=AD85(353);               UNION(7,9)=AD85(480);
UNION(7,10)=AD85(607);
GOVTJOB(7,6)=AD85(88);              GOVTJOB(7,7)=AD85(215);
GOVTJOB(7,8)=AD85(342);             GOVTJOB(7,9)=AD85(469);
GOVTJOB(7,10)=AD85(596);
N=18;
do J=6 to 10;
  if AD85(N)>-4 then do;
    START(7,J)=WEEK(AD85(N),AD85(N+1),AD85(N+2));
    STOP(7,J)=WEEK(AD85(N+4),AD85(N+5),AD85(N+6));
  end;
  N=N+127;
end;
N=21;
do J=6 to 10;
  CURRENT(7,J)=AD85(N);
  HOURSWEEK(7,J)=AD85(N+66);
  WEEKSNOTWORKED(7,J)=AD85(N+6);
  PAST(7,J)=AD85(N-6);
```

```
   P=N;
   do K=1 to 4;
     if AD85(P+8)>-4 then do;
       PERIODSTART(7,J,K)=WEEK(AD85(P+8),AD85(P+9),AD85(P+10));
       PERIODSTOP(7,J,K)=WEEK(AD85(P+11),AD85(P+12),AD85(P+13));
     end;
     REASON(7,J,K)=AD85(P+14);
     ALL(7,J,K)=AD85(P+15);
     LOOK(7,J,K)=AD85(P+19);
     P=P+14;
   end;
   N=N+127;
  end;
  FREE AD85;
end;
end VARIABLES1985;
end DMPDATA;
```

/**1986***/

```
(subrg):
dmpdata: proc options(main);
default range(i:n) float;
dcl worktap file record input;    /* current work history tape  */
dcl varsnyr file stream input;    /* new year data-12686 cases, inc. wt */
dcl addjobs file record input;    /* new year add jobs file */
dcl newwork file record output; /* writes new updated work history tape */
dcl outdisk file stream output;  /* writes 86 key vars file on disk */
dcl (mod,floor,ceil) builtin, sysprint file;
dcl (olda,alim,j,k,n,i) fixed bin(15);
on endfile(worktap) go to done;
olda=419; alim=471; newyear=8; survey_yr=86; /*note: update this line for arrays limit & year */
dcl 1 structin controlled,
   2 INFO(8)        float dec(6),                        /*current workhistory record */
   2 ARRAY1(0:OLDA)   float dec(6),
   2 ARRAY2(0:OLDA)   float dec(6),
   2 ARRAY3(0:OLDA)   float dec(12),
   2 HISTYRS(NEWYEAR-1),
    5 OWT          float dec(6),
    5 OLASTINT       float dec(6),
    5 OINT         float dec(6),
    5 OINTM         float dec(6),
    5 OINTD         float dec(6),
    5 OINTY         float dec(6),
    5 OJOB(10,47)    float dec(6),
    5 OBTWNJOBS(6,5)  float dec(6),
    5 OMILIT(6)      float dec(6),
    5 OCALENDAR(17)   float dec(6),
    5 OLASTSUM(8)     float dec(6);
dcl 1 variables controlled,
   2 ID          float dec(6),                        /* ID number of respondent, X(1) */
   2 SAMPLE_ID      float dec(6),                     /* sample type, X(1561) */
   2 BIRTHM_79      float dec(6),
   2 BIRTHD_79      float dec(6),
   2 BIRTHY_79      float dec(6),
   2 BIRTHM_81       float dec(6),
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```
2 BIRTHD_81      float dec(6),
2 BIRTHY_81      float dec(6),
2 A(0:ALIM)      float dec(6),
2 HOUR(0:ALIM)    float dec(6),
2 DUALJOB(0:ALIM) float dec(12),
2 OLDHIST(NEWYEAR-1),
 5 OWT          float dec(6),
 5 OLASTINT      float dec(6),
 5 OINT         float dec(6),
 5 OINTM        float dec(6),
 5 OINTD        float dec(6),
 5 OINTY        float dec(6),
 5 OJOB(10,47)    float dec(6),
 5 OBTWNJOBS(6,5) float dec(6),
 5 OMILIT(6)      float dec(6),
 5 OCALENDAR(17)  float dec(6),
 5 OLASTSUM(8)    float dec(6),
2 WORK_HISTORY(NEWYEAR:NEWYEAR),
 5 WEIGHT,                    /* sampling weight   */
 5 LASTINT,                   /* week number of last interview */
 5 INT,                       /* week number of current interview */
 5 INTM,                      /* month of the interview */
 5 INTD,                      /* day of the interview */
 5 INTY,                      /* year of the interview */
 5 JOB(10),                   /* 10 possible jobs for each interview */
  10 START,                   /* starting week of the job */
  10 STARTM,                  /* starting month of the job */
  10 STARTD,                  /* starting day of the job */
  10 STARTY,                  /* starting year of the job */
  10 STOP,                    /* stopping week of the job */
  10 STOPM,                   /* stopping month of the job */
  10 STOPD,                   /* stopping day of the job */
  10 STOPY,                   /* stopping year of the job */
  10 PAST,                    /* has R worked at job before last interview */
  10 CURRENT,                 /* working at job at interview date */
  10 WHYLEFT,                 /* reason left job if not currently working */
  10 CPSJOB,                  /* is this job same as the cps job */
  10 HOURSWEEK,               /* usual hours per week at this job */
  10 OCCUPATION,              /* usual occupation at this job */
  10 INDUSTRY,                /* usual industry at this job */
  10 CLASSWORKER,             /* class of worker at this job */
  10 HOURDAY,                 /* usual hours per day worked at this job */
  10 PAYRATE,                 /* usual wage or salary at this job */
  10 TIMERATE,                /* time unit to interpret payrate */
  10 HOURLYWAGE,              /* usual wage converted to hourly wage */
  10 UNION,                   /* wages set by collective bargaining */
  10 GOVTJOB,                 /* is this job government-sponsored */
  10 WEEKSNOTWORKED,          /* any weeks not working at this job */
  10 PERIOD_IN_JOB(4),        /* information on each period not working */
   15 PERIODSTART,            /* starting week number of period not working */
   15 PERIODSTOP,             /* stopping week number of period not working */
   15 REASON,                 /* reason not working for this period */
   15 ALL,                    /* how much time unemployed in this period */
   15 LOOK,                   /* number of weeks unemployed in this period */
  10 PREVIOUSEMP#,            /* job number of employer from last int */
  10 PRETEN,                  /* months worked for employer before lastint */
```

```
    10 TENURE,                    /* total weeks tenure as of interview date */
    10 NUMBER,                    /* job number which is loaded into 'A' array */
   5 BETWEEN_JOBS(6),             /* information about periods not working between jobs and military
      service */
    10 BSTART,                    /* week started this period not working */
    10 BSTOP,                     /* week stopped this period not working */
    10 BALL,                      /* how much of period not worked unemployed */
    10 BLOOK,                     /* number of weeks unemployed in this period */
    10 BREASON,                   /* reason not looking for work this period */
   5 MILITARY,                    /* information about active military service */
    10 MSTART1,                   /* starting week of first period of service */
    10 MSTART2,                   /* starting week of second period of service */
    10 MSTOP1,                    /* stopping week of first period of service */
    10 MSTOP2,                    /* stopping week of second period of service */
    10 MILWKSL,                   /* weeks active military service as of int */
    10 MILWKSC,                   /* weeks active military service in the calendar year */
   5 CALENDAR_YEAR_SUM,           /* key variables for the calendar year */
    10 WORKC,                     /* weeks worked in the calendar year */
    10 HOURC,                     /* hours worked in the calendar year */
    10 WUMPC,                     /* weeks unemployed in the calendar year */
    10 WOLFC,                     /* weeks out of labor force in calendar year */
    10 CAL_YEAR_JOBS,             /* number of jobs in the calendar year */
    10 CAL_YEAR_JOB#(10),         /* job numbers in the calendar year */
    10 MISSC,                     /* % of weeks unaccounted for in year */
    10 NWMISSC,                   /* % weeks not employed that can't be split */
   5 LASTINT_SUM,                 /* key variables calculated since last int */
    10 LASTINT_JOBS,              /* number of jobs since last interview */
    10 WORKL,                     /* number of weeks worked since last int */
    10 HOURL,                     /* number of hours worked since last int */
    10 WUMPL,                     /* number of weeks unemployed since last int */
    10 WOLFL,                     /* weeks out of labor force since last int */
    10 WBID,                      /* number of weeks since last int */
    10 MISSL,                     /* % of weeks unaccounted for since last int */
    10 NWMISSL;                   /* % weeks not employed that can't be split */
dcl (NA,DK,MAX,MAXYEAR,MAXDUAL,MAXINT,PR,SURVEY_YR,
   P,LEAP,FILLER,F,DUP,DUA,NEWYEAR,FLAG,#WEEKS)  float dec(6);
dcl(kount,kountnew,kount_out) fixed bin(15);
NA=-4; DK=-3; kount=0; kountnew=0; kount_out=0; MAX=0; MAXYEAR=100; MAXDUAL=0; MAXINT=0;
allocate VARIABLES,STRUCTIN;
1read1:  read file (WORKTAP) into (STRUCTIN);
 kount=kount+1;
 ID=INFO(1);
 SAMPLE_ID=INFO(2);
 BIRTHM_79=INFO(3);        BIRTHD_79=INFO(4);        BIRTHY_79=INFO(5);
 BIRTHM_81=INFO(6);        BIRTHD_81=INFO(7);        BIRTHY_81=INFO(8);
 A=0; HOUR=0; DUALJOB=0;
 do J=0 to OLDA;
   A(J)=ARRAY1(J); HOUR(J)=ARRAY2(J); DUALJOB(J)=ARRAY3(J);
 end;
 OLDHIST=HISTYRS, by NAME;
 get file(VARSNYR) edit (NORCID,
    Q0710,CURAMIL,Q0716,Q0718,Q0721, /* note: creation of curamil:
                     curamil=q0712
                     if (curamil=-4 | curamil>=7) then curamil=q0757  */
    Q0727,Q0730,Q0732,Q0734,Q0737,Q0739,Q0740,Q0742,Q0744,Q0747,Q0749,Q0751,
    Q1035,Q1038,Q1048,Q1051,Q1128,Q1130,Q1132,Q1134,Q1136,Q1138,Q1140,Q1150,
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    Q1158,Q1160,Q1162,Q1164,Q1166,Q1168,Q1170,Q1210,
    Q1218,Q1220,Q1222,Q1224,Q1226,Q1228,Q1230,Q1240,
    Q1248,Q1250,Q1252,Q1254,Q1256,Q1258,Q1260,Q1270,
    Q1310,Q1312,Q1314,Q1316,Q1318,Q1320,Q1322,Q1332,
    Q1340,Q1342,Q1344,Q1346,Q1348,Q1350,Q1352,Q1362,Q7060,Q7062)
    (COL(1),72(F(7)));
 get file(VARSNYR) edit(Q7347,Q7353,Q7355,Q7357,Q7359,Q7361,Q7363,Q7365,Q7366,
    Q7368,Q7370,Q7377,Q7410,Q7412,Q7414,Q7416,Q7418,Q7420,Q7422,Q7424,Q7434,
    Q7442,Q7444,Q7446,Q7448,Q7450,Q7452,Q7454,Q7456,Q7466,
    Q7474,Q7476,Q7478,Q7510,Q7512,Q7514,Q7516,Q7518,Q7528,
    Q7536,Q7538,Q7540,Q7542,Q7544,Q7546,Q7548,Q7550,Q7560,
    Q7568,Q7570,Q7571,Q7576,Q7610,Q7613,Q7616,Q7623,Q7645,Q7646)
    (COL(505),58(F(7)));
 get file(VARSNYR) edit(Q7747,Q7753,Q7755,Q7757,Q7759,Q7761,Q7763,Q7765,Q7766,
    Q7768,Q7770,Q7777,Q7810,Q7812,Q7814,Q7816,Q7818,Q7820,Q7822,Q7824,Q7834,
    Q7842,Q7844,Q7846,Q7848,Q7850,Q7852,Q7854,Q7856,Q7866,
    Q7874,Q7876,Q7878,Q7910,Q7912,Q7914,Q7916,Q7918,Q7928,
    Q7936,Q7938,Q7940,Q7942,Q7944,Q7946,Q7948,Q7950,Q7960,
    Q7968,Q7970,Q7971,Q7976,Q8010,Q8013,Q8016,Q8023,Q8045,Q8046)
    (COL(911),58(F(7)));
 get file(VARSNYR) edit(Q8147,Q8153,Q8155,Q8157,Q8159,Q8161,Q8163,Q8165,Q8166,
    Q8168,Q8170,Q8177,Q8210,Q8212,Q8214,Q8216,Q8218,Q8220,Q8222,Q8224,Q8234,
    Q8242,Q8244,Q8246,Q8248,Q8250,Q8252,Q8254,Q8256,Q8266,
    Q8274,Q8276,Q8278,Q8310,Q8312,Q8314,Q8316,Q8318,Q8328,
    Q8336,Q8338,Q8340,Q8342,Q8344,Q8346,Q8348,Q8350,Q8360,
    Q8368,Q8370,Q8371,Q8376,Q8410,Q8413,Q8416,Q8423,Q8445,Q8446)
    (COL(1317),58(F(7)));
 get file(VARSNYR) edit(Q8547,Q8553,Q8555,Q8557,Q8559,Q8561,Q8563,Q8565,Q8566,
    Q8568,Q8570,Q8577,Q8610,Q8612,Q8614,Q8616,Q8618,Q8620,Q8622,Q8624,Q8634,
    Q8642,Q8644,Q8646,Q8648,Q8650,Q8652,Q8654,Q8656,Q8666,
    Q8674,Q8676,Q8678,Q8710,Q8712,Q8714,Q8716,Q8718,Q8728,
    Q8736,Q8738,Q8740,Q8742,Q8744,Q8746,Q8748,Q8750,Q8760,
    Q8768,Q8770,Q8771,Q8776,Q8810,Q8813,Q8816,Q8823,Q8845,Q8846)
    (COL(1723),58(F(7)));
 get file(VARSNYR) edit(Q8947,Q8953,Q8955,Q8957,Q8959,Q8961,Q8963,Q8965,Q8966,
    Q8968,Q8970,Q8977,Q9010,Q9012,Q9014,Q9016,Q9018,Q9020,Q9022,Q9024,Q9034,
    Q9042,Q9044,Q9046,Q9048,Q9050,Q9052,Q9054,Q9056,Q9066,
    Q9074,Q9076,Q9078,Q9110,Q9112,Q9114,Q9116,Q9118,Q9128,
    Q9136,Q9138,Q9140,Q9142,Q9144,Q9146,Q9148,Q9150,Q9160,
    Q9168,Q9170,Q9171,Q9176,Q9210,Q9213,Q9216,Q9223,Q9245,Q9246,Q9327,
    Q1156,Q1216,Q1246,Q1276,Q1338,Q1368,Q7372,Q7772,Q8172,Q8572,Q8972,WT,PUBID)
    (COL(2129),72(F(7)));
kountnew=kountnew+1;
if PUBID^=INFO(1) then do;
  put file (sysprint) edit ('error IDS do NOT MATCH. PUBID=', PUBID,'   INFO(1)ID=',INFO(1))
                (skip(1),A,F(5),skip(1),A,F(5));
  go to done;
end;
else do;
 PR=1;
 do J=2 to NEWYEAR-1;
   if OLDHIST(J).OWT > 0 then PR=J;
 end;
 WORK_HISTORY(NEWYEAR)=-4;
 WEIGHT(NEWYEAR)=WT;
 if WEIGHT(NEWYEAR)=0 then WORK_HISTORY(NEWYEAR)=-5;
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    else do;
      call NEWVARIABLES;
      call CALC(NEWYEAR);
      call SUMMER(NEWYEAR);
    end;
    write file(NEWWORK) from (VARIABLES);
    put file(OUTDISK) edit (
       ID,MILWKSL(8),MILWKSC(8),WORKC(8),HOURC(8),WUMPC(8),WOLFC(8),
           MISSC(8),WORKL(8),HOURL(8),WUMPL(8),WOLFL(8),WBID(8),MISSL(8),
           VARIABLES.OMILIT(1,6),VARIABLES.OMILIT(2,6),VARIABLES.OMILIT(3,6),
           VARIABLES.OMILIT(4,6),VARIABLES.OMILIT(5,6),VARIABLES.OMILIT(6,6),
           VARIABLES.OMILIT(7,6)) (COL(1),21(F(7)));
    kount_out=kount_out+1;
    go to READ1;
  end;
1NEWVARIABLES:PROC;
 dcl ADDJVBLS(681) float dec(6);
 STARTM(NEWYEAR,1)=Q7359;          STARTD(NEWYEAR,1)=Q7361;
 STARTY(NEWYEAR,1)=Q7363;          STARTM(NEWYEAR,2)=Q7759;
 STARTD(NEWYEAR,2)=Q7761;          STARTY(NEWYEAR,2)=Q7763;
 STARTM(NEWYEAR,3)=Q8159;          STARTD(NEWYEAR,3)=Q8161;
 STARTY(NEWYEAR,3)=Q8163;          STARTM(NEWYEAR,4)=Q8559;
 STARTD(NEWYEAR,4)=Q8561;          STARTY(NEWYEAR,4)=Q8563;
 STARTM(NEWYEAR,5)=Q8959;          STARTD(NEWYEAR,5)=Q8961;
 STARTY(NEWYEAR,5)=Q8963;          STOPM(NEWYEAR,1)=Q7366;
 STOPD(NEWYEAR,1)=Q7368;           STOPY(NEWYEAR,1)=Q7370;
 STOPM(NEWYEAR,2)=Q7766;           STOPD(NEWYEAR,2)=Q7768;
 STOPY(NEWYEAR,2)=Q7770;           STOPM(NEWYEAR,3)=Q8166;
 STOPD(NEWYEAR,3)=Q8168;           STOPY(NEWYEAR,3)=Q8170;
 STOPM(NEWYEAR,4)=Q8566;           STOPD(NEWYEAR,4)=Q8568;
 STOPY(NEWYEAR,4)=Q8570;           STOPM(NEWYEAR,5)=Q8966;
 STOPD(NEWYEAR,5)=Q8968;           STOPY(NEWYEAR,5)=Q8970;
 LASTINT(NEWYEAR)=
   CEIL(WEEK(OLDHIST(PR).OINTM,OLDHIST(PR).OINTD,OLDHIST(PR).OINTY)+1/7);
 INT(NEWYEAR)=FLOOR(WEEK(Q7060,Q7062,SURVEY_YR));
 INTM(NEWYEAR)=Q7060;
 INTD(NEWYEAR)=Q7062;
 if WEIGHT(NEWYEAR)>0 then INTY(NEWYEAR)=SURVEY_YR;
 HOURDAY(NEWYEAR,1)=Q7568;         HOURDAY(NEWYEAR,2)=Q7968;
 HOURDAY(NEWYEAR,3)=Q8368;         HOURDAY(NEWYEAR,4)=Q8768;
 HOURDAY(NEWYEAR,5)=Q9168;
 PAYRATE(NEWYEAR,1)=Q7616;         PAYRATE(NEWYEAR,2)=Q8016;
 PAYRATE(NEWYEAR,3)=Q8416;         PAYRATE(NEWYEAR,4)=Q8816;
 PAYRATE(NEWYEAR,5)=Q9216;
 TIMERATE(NEWYEAR,1)=Q7623;        TIMERATE(NEWYEAR,2)=Q8023;
 TIMERATE(NEWYEAR,3)=Q8423;        TIMERATE(NEWYEAR,4)=Q8823;
 TIMERATE(NEWYEAR,5)=Q9223;
 UNION(NEWYEAR,1)=Q7645;           UNION(NEWYEAR,2)=Q8045;
 UNION(NEWYEAR,3)=Q8445;           UNION(NEWYEAR,4)=Q8845;
 UNION(NEWYEAR,5)=Q9245;
 GOVTJOB(NEWYEAR,1)=Q7646;         GOVTJOB(NEWYEAR,2)=Q8046;
 GOVTJOB(NEWYEAR,3)=Q8446;         GOVTJOB(NEWYEAR,4)=Q8846;
 GOVTJOB(NEWYEAR,5)=Q9246;
 if Q7347>-4 then PREVIOUSEMP#(NEWYEAR,1)=Q7347; else PREVIOUSEMP#(NEWYEAR,1)=Q7353;
 if Q7747>-4 then PREVIOUSEMP#(NEWYEAR,2)=Q7747; else PREVIOUSEMP#(NEWYEAR,2)=Q7753;
 if Q8147>-4 then PREVIOUSEMP#(NEWYEAR,3)=Q8147; else PREVIOUSEMP#(NEWYEAR,3)=Q8153;
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if Q8547>-4 then PREVIOUSEMP#(NEWYEAR,4)=Q8547; else PREVIOUSEMP#(NEWYEAR,4)=Q8553;
if Q8947>-4 then PREVIOUSEMP#(NEWYEAR,5)=Q8947; else PREVIOUSEMP#(NEWYEAR,5)=Q8953;
PRETEN(NEWYEAR,1)=Q7357;          PRETEN(NEWYEAR,2)=Q7757;
PRETEN(NEWYEAR,3)=Q8157;          PRETEN(NEWYEAR,4)=Q8557;
PRETEN(NEWYEAR,5)=Q8957;
if Q7359>-4 then do;
  START(NEWYEAR,1)=WEEK(Q7359,Q7361,Q7363);
  STOP(NEWYEAR,1)=WEEK(Q7366,Q7368,Q7370);
end;
if Q7759>-4 then do;
  START(NEWYEAR,2)=WEEK(Q7759,Q7761,Q7763);
  STOP(NEWYEAR,2)=WEEK(Q7766,Q7768,Q7770);
end;
if Q8159>-4 then do;
  START(NEWYEAR,3)=WEEK(Q8159,Q8161,Q8163);
  STOP(NEWYEAR,3)=WEEK(Q8166,Q8168,Q8170);
end;
if Q8559>-4 then do;
  START(NEWYEAR,4)=WEEK(Q8559,Q8561,Q8563);
  STOP(NEWYEAR,4)=WEEK(Q8566,Q8568,Q8570);
end;
if Q8959>-4 then do;
  START(NEWYEAR,5)=WEEK(Q8959,Q8961,Q8963);
  STOP(NEWYEAR,5)=WEEK(Q8966,Q8968,Q8970);
end;
PAST(NEWYEAR,1)=Q7355;                    PAST(NEWYEAR,2)=Q7755;
PAST(NEWYEAR,3)=Q8155;                    PAST(NEWYEAR,4)=Q8555;
PAST(NEWYEAR,5)=Q8955;
CURRENT(NEWYEAR,1)=Q7365;                 CURRENT(NEWYEAR,2)=Q7765;
CURRENT(NEWYEAR,3)=Q8165;                 CURRENT(NEWYEAR,4)=Q8565;
CURRENT(NEWYEAR,5)=Q8965;
WHYLEFT(NEWYEAR,1)=Q7372;                 WHYLEFT(NEWYEAR,2)=Q7772;
WHYLEFT(NEWYEAR,3)=Q8172;                 WHYLEFT(NEWYEAR,4)=Q8572;
WHYLEFT(NEWYEAR,5)=Q8972;
WEEKSNOTWORKED(NEWYEAR,1)=Q7377;          WEEKSNOTWORKED(NEWYEAR,2)=Q7777;
WEEKSNOTWORKED(NEWYEAR,3)=Q8177;          WEEKSNOTWORKED(NEWYEAR,4)=Q8577;
WEEKSNOTWORKED(NEWYEAR,5)=Q8977;
CPSJOB(NEWYEAR,1)=Q7570;                  CPSJOB(NEWYEAR,2)=Q7970;
CPSJOB(NEWYEAR,3)=Q8370;                  CPSJOB(NEWYEAR,4)=Q8770;
CPSJOB(NEWYEAR,5)=Q9170;
if Q7570=1 then do;
  INDUSTRY(NEWYEAR,1)=Q1035;               OCCUPATION(NEWYEAR,1)=Q1038;
  CLASSWORKER(NEWYEAR,1)=Q1048;            HOURSWEEK(NEWYEAR,1)=Q1051;
end;
else do;
  INDUSTRY(NEWYEAR,1)=Q7610;               OCCUPATION(NEWYEAR,1)=Q7576;
  CLASSWORKER(NEWYEAR,1)=Q7613;            HOURSWEEK(NEWYEAR,1)=Q7571;
end;
if Q7970=1 then do;
  INDUSTRY(NEWYEAR,2)=Q1035;               OCCUPATION(NEWYEAR,2)=Q1038;
  CLASSWORKER(NEWYEAR,2)=Q1048;            HOURSWEEK(NEWYEAR,2)=Q1051;
end;
else do;
  INDUSTRY(NEWYEAR,2)=Q8010;               OCCUPATION(NEWYEAR,2)=Q7976;
  CLASSWORKER(NEWYEAR,2)=Q8013;            HOURSWEEK(NEWYEAR,2)=Q7971;
end;
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if Q8370=1 then do;
  INDUSTRY(NEWYEAR,3)=Q1035;                OCCUPATION(NEWYEAR,3)=Q1038;
  CLASSWORKER(NEWYEAR,3)=Q1048;             HOURSWEEK(NEWYEAR,3)=Q1051;
end;
else do;
  INDUSTRY(NEWYEAR,3)=Q8410;                OCCUPATION(NEWYEAR,3)=Q8376;
  CLASSWORKER(NEWYEAR,3)=Q8413;             HOURSWEEK(NEWYEAR,3)=Q8371;
end;
if Q8770=1 then do;
  INDUSTRY(NEWYEAR,4)=Q1035;                OCCUPATION(NEWYEAR,4)=Q1038;
  CLASSWORKER(NEWYEAR,4)=Q1048;             HOURSWEEK(NEWYEAR,4)=Q1051;
end;
else do;
  INDUSTRY(NEWYEAR,4)=Q8810;                OCCUPATION(NEWYEAR,4)=Q8776;
  CLASSWORKER(NEWYEAR,4)=Q8813;             HOURSWEEK(NEWYEAR,4)=Q8771;
end;
if Q9170=1 then do;
  INDUSTRY(NEWYEAR,5)=Q1035;                OCCUPATION(NEWYEAR,5)=Q1038;
  CLASSWORKER(NEWYEAR,5)=Q1048;             HOURSWEEK(NEWYEAR,5)=Q1051;
end;
else do;
  INDUSTRY(NEWYEAR,5)=Q9210;                OCCUPATION(NEWYEAR,5)=Q9176;
  CLASSWORKER(NEWYEAR,5)=Q9213;             HOURSWEEK(NEWYEAR,5)=Q9171;
end;
if Q7410>-4 then do;
  PERIODSTART(NEWYEAR,1,1)=WEEK(Q7410,Q7412,Q7414);
  PERIODSTOP(NEWYEAR,1,1)=WEEK(Q7416,Q7418,Q7420);
end;
if Q7442>-4 then do;
  PERIODSTART(NEWYEAR,1,2)=WEEK(Q7442,Q7444,Q7446);
  PERIODSTOP(NEWYEAR,1,2)=WEEK(Q7448,Q7450,Q7452);
end;
if Q7474>-4 then do;
  PERIODSTART(NEWYEAR,1,3)=WEEK(Q7474,Q7476,Q7478);
  PERIODSTOP(NEWYEAR,1,3)=WEEK(Q7510,Q7512,Q7514);
end;
if Q7536>-4 then do;
  PERIODSTART(NEWYEAR,1,4)=WEEK(Q7536,Q7538,Q7540);
  PERIODSTOP(NEWYEAR,1,4)=WEEK(Q7542,Q7544,Q7546);
end;
if Q7810>-4 then do;
  PERIODSTART(NEWYEAR,2,1)=WEEK(Q7810,Q7812,Q7814);
  PERIODSTOP(NEWYEAR,2,1)=WEEK(Q7816,Q7818,Q7820);
end;
if Q7842>-4 then do;
  PERIODSTART(NEWYEAR,2,2)=WEEK(Q7842,Q7844,Q7846);
  PERIODSTOP(NEWYEAR,2,2)=WEEK(Q7848,Q7850,Q7852);
end;
if Q7874>-4 then do;
  PERIODSTART(NEWYEAR,2,3)=WEEK(Q7874,Q7876,Q7878);
  PERIODSTOP(NEWYEAR,2,3)=WEEK(Q7910,Q7912,Q7914);
end;
if Q7936>-4 then do;
  PERIODSTART(NEWYEAR,2,4)=WEEK(Q7936,Q7938,Q7940);
  PERIODSTOP(NEWYEAR,2,4)=WEEK(Q7942,Q7944,Q7946);
end;
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if Q8210>-4 then do;
  PERIODSTART(NEWYEAR,3,1)=WEEK(Q8210,Q8212,Q8214);
  PERIODSTOP(NEWYEAR,3,1)=WEEK(Q8216,Q8218,Q8220);
end;
if Q8242>-4 then do;
  PERIODSTART(NEWYEAR,3,2)=WEEK(Q8242,Q8244,Q8246);
  PERIODSTOP(NEWYEAR,3,2)=WEEK(Q8248,Q8250,Q8252);
end;
if Q8274>-4 then do;
  PERIODSTART(NEWYEAR,3,3)=WEEK(Q8274,Q8276,Q8278);
  PERIODSTOP(NEWYEAR,3,3)=WEEK(Q8310,Q8312,Q8314);
end;
if Q8336>-4 then do;
  PERIODSTART(NEWYEAR,3,4)=WEEK(Q8336,Q8338,Q8340);
  PERIODSTOP(NEWYEAR,3,4)=WEEK(Q8342,Q8344,Q8346);
end;
if Q8610>-4 then do;
  PERIODSTART(NEWYEAR,4,1)=WEEK(Q8610,Q8612,Q8614);
  PERIODSTOP(NEWYEAR,4,1)=WEEK(Q8616,Q8618,Q8620);
end;
if Q8642>-4 then do;
  PERIODSTART(NEWYEAR,4,2)=WEEK(Q8642,Q8644,Q8646);
  PERIODSTOP(NEWYEAR,4,2)=WEEK(Q8648,Q8650,Q8652);
end;
if Q8674>-4 then do;
  PERIODSTART(NEWYEAR,4,3)=WEEK(Q8674,Q8676,Q8678);
  PERIODSTOP(NEWYEAR,4,3)=WEEK(Q8710,Q8712,Q8714);
end;
if Q8736>-4 then do;
  PERIODSTART(NEWYEAR,4,4)=WEEK(Q8736,Q8738,Q8740);
  PERIODSTOP(NEWYEAR,4,4)=WEEK(Q8742,Q8744,Q8746);
end;
if Q9010>-4 then do;
  PERIODSTART(NEWYEAR,5,1)=WEEK(Q9010,Q9012,Q9014);
  PERIODSTOP(NEWYEAR,5,1)=WEEK(Q9016,Q9018,Q9020);
end;
if Q9042>-4 then do;
  PERIODSTART(NEWYEAR,5,2)=WEEK(Q9042,Q9044,Q9046);
  PERIODSTOP(NEWYEAR,5,2)=WEEK(Q9048,Q9050,Q9052);
end;
if Q9074>-4 then do;
  PERIODSTART(NEWYEAR,5,3)=WEEK(Q9074,Q9076,Q9078);
  PERIODSTOP(NEWYEAR,5,3)=WEEK(Q9110,Q9112,Q9114);
end;
if Q9136>-4 then do;
  PERIODSTART(NEWYEAR,5,4)=WEEK(Q9136,Q9138,Q9140);
  PERIODSTOP(NEWYEAR,5,4)=WEEK(Q9142,Q9144,Q9146);
end;
REASON(NEWYEAR,1,1)=Q7422;        REASON(NEWYEAR,1,2)=Q7454;
REASON(NEWYEAR,1,3)=Q7516;        REASON(NEWYEAR,1,4)=Q7548;
REASON(NEWYEAR,2,1)=Q7822;        REASON(NEWYEAR,2,2)=Q7854;
REASON(NEWYEAR,2,3)=Q7916;        REASON(NEWYEAR,2,4)=Q7948;
REASON(NEWYEAR,3,1)=Q8222;        REASON(NEWYEAR,3,2)=Q8254;
REASON(NEWYEAR,3,3)=Q8316;        REASON(NEWYEAR,3,4)=Q8348;
REASON(NEWYEAR,4,1)=Q8622;        REASON(NEWYEAR,4,2)=Q8654;
REASON(NEWYEAR,4,3)=Q8716;        REASON(NEWYEAR,4,4)=Q8748;
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REASON(NEWYEAR,5,1)=Q9022;          REASON(NEWYEAR,5,2)=Q9054;
REASON(NEWYEAR,5,3)=Q9116;          REASON(NEWYEAR,5,4)=Q9148;
ALL(NEWYEAR,1,1)=Q7424;             ALL(NEWYEAR,1,2)=Q7456;
ALL(NEWYEAR,1,3)=Q7518;             ALL(NEWYEAR,1,4)=Q7550;
ALL(NEWYEAR,2,1)=Q7824;             ALL(NEWYEAR,2,2)=Q7856;
ALL(NEWYEAR,2,3)=Q7918;             ALL(NEWYEAR,2,4)=Q7950;
ALL(NEWYEAR,3,1)=Q8224;             ALL(NEWYEAR,3,2)=Q8256;
ALL(NEWYEAR,3,3)=Q8318;             ALL(NEWYEAR,3,4)=Q8350;
ALL(NEWYEAR,4,1)=Q8624;             ALL(NEWYEAR,4,2)=Q8656;
ALL(NEWYEAR,4,3)=Q8718;             ALL(NEWYEAR,4,4)=Q8750;
ALL(NEWYEAR,5,1)=Q9024;             ALL(NEWYEAR,5,2)=Q9056;
ALL(NEWYEAR,5,3)=Q9118;             ALL(NEWYEAR,5,4)=Q9150;
LOOK(NEWYEAR,1,1)=Q7434;            LOOK(NEWYEAR,1,2)=Q7466;
LOOK(NEWYEAR,1,3)=Q7528;            LOOK(NEWYEAR,1,4)=Q7560;
LOOK(NEWYEAR,2,1)=Q7834;            LOOK(NEWYEAR,2,2)=Q7866;
LOOK(NEWYEAR,2,3)=Q7928;            LOOK(NEWYEAR,2,4)=Q7960;
LOOK(NEWYEAR,3,1)=Q8234;            LOOK(NEWYEAR,3,2)=Q8266;
LOOK(NEWYEAR,3,3)=Q8328;            LOOK(NEWYEAR,3,4)=Q8360;
LOOK(NEWYEAR,4,1)=Q8634;            LOOK(NEWYEAR,4,2)=Q8666;
LOOK(NEWYEAR,4,3)=Q8728;            LOOK(NEWYEAR,4,4)=Q8760;
LOOK(NEWYEAR,5,1)=Q9034;            LOOK(NEWYEAR,5,2)=Q9066;
LOOK(NEWYEAR,5,3)=Q9128;            LOOK(NEWYEAR,5,4)=Q9160;
if Q1128>-4 then do;
  BSTART(NEWYEAR,1)=WEEK(Q1128,Q1130,Q1132);
  BSTOP(NEWYEAR,1)=WEEK(Q1134,Q1136,Q1138);
end;
if Q1158>-4 then do;
  BSTART(NEWYEAR,2)=WEEK(Q1158,Q1160,Q1162);
  BSTOP(NEWYEAR,2)=WEEK(Q1164,Q1166,Q1168);
end;
if Q1218>-4 then do;
  BSTART(NEWYEAR,3)=WEEK(Q1218,Q1220,Q1222);
  BSTOP(NEWYEAR,3)=WEEK(Q1224,Q1226,Q1228);
end;
if Q1248>-4 then do;
  BSTART(NEWYEAR,4)=WEEK(Q1248,Q1250,Q1252);
  BSTOP(NEWYEAR,4)=WEEK(Q1254,Q1256,Q1258);
end;
if Q1310>-4 then do;
  BSTART(NEWYEAR,5)=WEEK(Q1310,Q1312,Q1314);
  BSTOP(NEWYEAR,5)=WEEK(Q1316,Q1318,Q1320);
end;
if Q1340>-4 then do;
  BSTART(NEWYEAR,6)=WEEK(Q1340,Q1342,Q1344);
  BSTOP(NEWYEAR,6)=WEEK(Q1346,Q1348,Q1350);
end;
BALL(NEWYEAR,1)=Q1140;              BALL(NEWYEAR,2)=Q1170;
BALL(NEWYEAR,3)=Q1230;              BALL(NEWYEAR,4)=Q1260;
BALL(NEWYEAR,5)=Q1322;              BALL(NEWYEAR,6)=Q1352;
BLOOK(NEWYEAR,1)=Q1150;             BLOOK(NEWYEAR,2)=Q1210;
BLOOK(NEWYEAR,3)=Q1240;             BLOOK(NEWYEAR,4)=Q1270;
BLOOK(NEWYEAR,5)=Q1332;             BLOOK(NEWYEAR,6)=Q1362;
BREASON(NEWYEAR,1)=Q1156;           BREASON(NEWYEAR,2)=Q1216;
BREASON(NEWYEAR,3)=Q1246;           BREASON(NEWYEAR,4)=Q1276;
BREASON(NEWYEAR,5)=Q1338;           BREASON(NEWYEAR,6)=Q1368;
if Q0710=1 & Q9327>=1 & Q9327<=4 then do;
```

```
    if CURAMIL=1 then MSTOP1(NEWYEAR)=INT(NEWYEAR);
    else MSTOP1(NEWYEAR)=WEEK(Q0716,Q0721,Q0718);
    MSTART1(NEWYEAR)=LASTINT(NEWYEAR);
    if MSTART1(NEWYEAR)>=0 & MSTOP1(NEWYEAR)>=MSTART1(NEWYEAR) then
      call FILL(MSTART1(NEWYEAR),MSTOP1(NEWYEAR),7,0);
  end;
if Q0727>=1 & Q0727<=4 then do;
  if Q0730=1 then do;
    MSTART2(NEWYEAR)=WEEK(Q0732,Q0737,Q0734);
    MSTOP2(NEWYEAR)=INT(NEWYEAR);
  end;
  else if Q0739=1 then do;
    MSTART2(NEWYEAR)=WEEK(Q0740,Q0742,Q0744);
    MSTOP2(NEWYEAR)=WEEK(Q0747,Q0749,Q0751);
  end;
  if MSTART2(NEWYEAR)>=0 & MSTOP2(NEWYEAR)>=MSTART2(NEWYEAR) then
    call FILL(MSTART2(NEWYEAR),MSTOP2(NEWYEAR),7,0);
end;
if MSTART1(NEWYEAR)>-4 | MSTART2(NEWYEAR)>-4 | MSTOP1(NEWYEAR)>-4
  | MSTOP2(NEWYEAR)>-4 then do;
  if MSTART1(NEWYEAR)=-3 | MSTART2(NEWYEAR)=-3 | MSTOP1(NEWYEAR)=-3
    | MSTOP2(NEWYEAR)=-3 then do;
    MILWKSL(NEWYEAR)=-3;
    MILWKSC(NEWYEAR)=-3;
  end;
  else do;
    MILWKSL(NEWYEAR)=0;
    MILWKSC(NEWYEAR)=0;
    if MSTART1(NEWYEAR)>=0 then MILWKSL(NEWYEAR)=
      MSTOP1(NEWYEAR) - MSTART1(NEWYEAR) + 1;
    if MSTART2(NEWYEAR)>=0 then MILWKSL(NEWYEAR)=
      MILWKSL(NEWYEAR) + MSTOP2(NEWYEAR) - MSTART2(NEWYEAR) + 1;
    MILWKSL(NEWYEAR)=FLOOR(MILWKSL(NEWYEAR)+.5);
  end;
end;
if ID=124 | ID=1089 | ID=1147 | ID=1200 | ID=1249 | ID=1257 | ID=1291 | ID=1466 | ID=1823 | ID=2047 |
        ID=2693 | ID=2805 | ID=3236 | ID=4117 | ID=4314 | ID=4429 | ID=4681 | ID=4703 | ID=4704 |
        ID=4718 | ID=4786 | ID=5940 | ID=7505 | ID=8331 | ID=8436 | ID=8547 | ID=9113 | ID=10089 |
        ID=10233 | ID=10293 | ID=10462 | ID=10564 | ID=10956 | ID=11064 | ID=11334 | ID=12121 |
        ID=12212 | ID=12392 | ID=12440 then do;
  read file(ADDJOBS) into(ADDJVBLS);
  STARTM(NEWYEAR,6)=ADDJVBLS(18);          STARTD(NEWYEAR,6)=ADDJVBLS(19);
  STARTY(NEWYEAR,6)=ADDJVBLS(20);          STARTM(NEWYEAR,7)=ADDJVBLS(154);
  STARTD(NEWYEAR,7)=ADDJVBLS(155);         STARTY(NEWYEAR,7)=ADDJVBLS(156);
  STARTM(NEWYEAR,8)=ADDJVBLS(290);         STARTD(NEWYEAR,8)=ADDJVBLS(291);
  STARTY(NEWYEAR,8)=ADDJVBLS(292);         STARTM(NEWYEAR,9)=ADDJVBLS(426);
  STARTD(NEWYEAR,9)=ADDJVBLS(427);         STARTY(NEWYEAR,9)=ADDJVBLS(428);
  STARTM(NEWYEAR,10)=ADDJVBLS(562);        STARTD(NEWYEAR,10)=ADDJVBLS(563);
  STARTY(NEWYEAR,10)=ADDJVBLS(564);        STOPM(NEWYEAR,6)=ADDJVBLS(22);
  STOPD(NEWYEAR,6)=ADDJVBLS(23);           STOPY(NEWYEAR,6)=ADDJVBLS(24);
  STOPM(NEWYEAR,7)=ADDJVBLS(158);          STOPD(NEWYEAR,7)=ADDJVBLS(159);
  STOPY(NEWYEAR,7)=ADDJVBLS(160);          STOPM(NEWYEAR,8)=ADDJVBLS(294);
  STOPD(NEWYEAR,8)=ADDJVBLS(295);          STOPY(NEWYEAR,8)=ADDJVBLS(296);
  STOPM(NEWYEAR,9)=ADDJVBLS(430);          STOPD(NEWYEAR,9)=ADDJVBLS(431);
  STOPY(NEWYEAR,9)=ADDJVBLS(432);          STOPM(NEWYEAR,10)=ADDJVBLS(566);
  STOPD(NEWYEAR,10)=ADDJVBLS(567);         STOPY(NEWYEAR,10)=ADDJVBLS(568);
```

```
if ADDJVBLS(9)>-4 then PREVIOUSEMP#(NEWYEAR,6)=ADDJVBLS(9);
else PREVIOUSEMP#(NEWYEAR,6)=ADDJVBLS(14);
if ADDJVBLS(145)>-4 then PREVIOUSEMP#(NEWYEAR,7)=ADDJVBLS(145);
else PREVIOUSEMP#(NEWYEAR,7)=ADDJVBLS(150);
if ADDJVBLS(281)>-4 then PREVIOUSEMP#(NEWYEAR,8)=ADDJVBLS(281);
else PREVIOUSEMP#(NEWYEAR,8)=ADDJVBLS(286);
if ADDJVBLS(417)>-4 then PREVIOUSEMP#(NEWYEAR,9)=ADDJVBLS(417);
else PREVIOUSEMP#(NEWYEAR,9)=ADDJVBLS(422);
if ADDJVBLS(553)>-4 then PREVIOUSEMP#(NEWYEAR,10)=ADDJVBLS(553);
else PREVIOUSEMP#(NEWYEAR,10)=ADDJVBLS(558);
PRETEN(NEWYEAR,6)=ADDJVBLS(17);          PRETEN(NEWYEAR,7)=ADDJVBLS(153);
PRETEN(NEWYEAR,8)=ADDJVBLS(289);         PRETEN(NEWYEAR,9)=ADDJVBLS(425);
PRETEN(NEWYEAR,10)=ADDJVBLS(561);
OCCUPATION(NEWYEAR,6)=ADDJVBLS(92);      OCCUPATION(NEWYEAR,7)=ADDJVBLS(228);
OCCUPATION(NEWYEAR,8)=ADDJVBLS(364);     OCCUPATION(NEWYEAR,9)=ADDJVBLS(500);
OCCUPATION(NEWYEAR,10)=ADDJVBLS(636);
INDUSTRY(NEWYEAR,6)=ADDJVBLS(93);        INDUSTRY(NEWYEAR,7)=ADDJVBLS(229);
INDUSTRY(NEWYEAR,8)=ADDJVBLS(365);       INDUSTRY(NEWYEAR,9)=ADDJVBLS(501);
INDUSTRY(NEWYEAR,10)=ADDJVBLS(637);
CLASSWORKER(NEWYEAR,6)=ADDJVBLS(94);     CLASSWORKER(NEWYEAR,7)=ADDJVBLS(230);
CLASSWORKER(NEWYEAR,8)=ADDJVBLS(366);    CLASSWORKER(NEWYEAR,9)=ADDJVBLS(502);
CLASSWORKER(NEWYEAR,10)=ADDJVBLS(638);
HOURDAY(NEWYEAR,6)=ADDJVBLS(86);         HOURDAY(NEWYEAR,7)=ADDJVBLS(222);
HOURDAY(NEWYEAR,8)=ADDJVBLS(358);        HOURDAY(NEWYEAR,9)=ADDJVBLS(494);
HOURDAY(NEWYEAR,10)=ADDJVBLS(630);
PAYRATE(NEWYEAR,6)=ADDJVBLS(97);         PAYRATE(NEWYEAR,7)=ADDJVBLS(233);
PAYRATE(NEWYEAR,8)=ADDJVBLS(369);        PAYRATE(NEWYEAR,9)=ADDJVBLS(505);
PAYRATE(NEWYEAR,10)=ADDJVBLS(641);
TIMERATE(NEWYEAR,6)=ADDJVBLS(99);        TIMERATE(NEWYEAR,7)=ADDJVBLS(235);
TIMERATE(NEWYEAR,8)=ADDJVBLS(371);       TIMERATE(NEWYEAR,9)=ADDJVBLS(507);
TIMERATE(NEWYEAR,10)=ADDJVBLS(643);
UNION(NEWYEAR,6)=ADDJVBLS(108);          UNION(NEWYEAR,7)=ADDJVBLS(244);
UNION(NEWYEAR,8)=ADDJVBLS(380);          UNION(NEWYEAR,9)=ADDJVBLS(516);
UNION(NEWYEAR,10)=ADDJVBLS(652);
GOVTJOB(NEWYEAR,6)=ADDJVBLS(89);         GOVTJOB(NEWYEAR,7)=ADDJVBLS(225);
GOVTJOB(NEWYEAR,8)=ADDJVBLS(361);        GOVTJOB(NEWYEAR,9)=ADDJVBLS(497);
GOVTJOB(NEWYEAR,10)=ADDJVBLS(633);
N=18;
do J=6 to 10;
  if ADDJVBLS(N)>-4 then do;
    START(NEWYEAR,J)=WEEK(ADDJVBLS(N),ADDJVBLS(N+1),ADDJVBLS(N+2));
    STOP(NEWYEAR,J)=WEEK(ADDJVBLS(N+4),ADDJVBLS(N+5),ADDJVBLS(N+6));
  end;
  N=N+136;
end;
N=21;
do J=6 to 10;
  CURRENT(NEWYEAR,J)=ADDJVBLS(N);
  HOURSWEEK(NEWYEAR,J)=ADDJVBLS(N+67);
  WEEKSNOTWORKED(NEWYEAR,J)=ADDJVBLS(N+7);
  PAST(NEWYEAR,J)=ADDJVBLS(N-6);
  P=N;
  do K=1 to 4;
    if ADDJVBLS(P+8)>-4 then do;
      PERIODSTART(NEWYEAR,J,K)=
        WEEK(ADDJVBLS(P+9),ADDJVBLS(P+10),ADDJVBLS(P+11));
```

```
      PERIODSTOP(NEWYEAR,J,K)=
        WEEK(ADDJVBLS(P+12),ADDJVBLS(P+13),ADDJVBLS(P+14));
     end;
     REASON(NEWYEAR,J,K)=ADDJVBLS(P+15);
     ALL(NEWYEAR,J,K)=ADDJVBLS(P+16);
     LOOK(NEWYEAR,J,K)=ADDJVBLS(P+20);
     P=P+15;
    end;
   N=N+136;
  end;
 end;
 end NEWVARIABLES;
 end DMPDATA;
```

/***1987***/

```
(subrg):
dmpdata: proc options(main);
default range(I:N) float;
dcl WORKTAP file record input;  /* current work history tape  */
dcl VARSNYR file stream input;  /* new year data-12686 cases, inc. wt */
dcl ADDJOBS file record input;  /* new year add jobs file */
dcl NEWWORK file record output; /* writes new updated work history tape */
dcl OUTDISK file stream output; /* writes 87 key vars file on disk */
dcl OUTTAPE file record output; /* writes 1979-1987 key vars & hourly rates file on tape */
dcl (MOD,FLOOR,CEIL) BUILTIN, sysprint file;
dcl MIL_error float dec(6);
dcl (OLDA,ALIM,J,K,N,I) fixed bin(15);
on endfile(WORKTAP) go to done;
OLDA=471; ALIM=523; NEWYEAR=9; SURVEY_YR=87; /*note: update this line for arrays limit & year */
dcl 1 STRUCTIN controlled,
    2 INFO(8)        float dec(6),                      /*current workhistory record */
    2 ARRAY1(0:OLDA)   float dec(6),
    2 ARRAY2(0:OLDA)   float dec(6),
    2 ARRAY3(0:OLDA)   float dec(12),
    2 HISTYRS(NEWYEAR-1),
     5 OWT          float dec(6),
     5 OLASTINT       float dec(6),
     5 OINT         float dec(6),
     5 OINTM          float dec(6),
     5 OINTD          float dec(6),
     5 OINTY          float dec(6),
     5 OJOB(10,47)    float dec(6),
     5 OBTWNJOBS(6,5)  float dec(6),
     5 OMILIT(6)      float dec(6),
     5 OCALENDAR(17)   float dec(6),
     5 OLASTSUM(8)     float dec(6);
dcl 1 variables controlled,
    2 ID           float dec(6),                      /* ID number of respondent, X(1) */
    2 SAMPLE_ID      float dec(6),                   /* sample type, X(1561) */
    2 BIRTHM_79      float dec(6),
    2 BIRTHD_79      float dec(6),
    2 BIRTHY_79      float dec(6),
    2 BIRTHM_81       float dec(6),
    2 BIRTHD_81      float dec(6),
    2 BIRTHY_81       float dec(6),
```

```
 2 A(0:ALIM)        float dec(6),
 2 HOUR(0:ALIM)     float dec(6),
 2 DUALJOB(0:ALIM)  float dec(12),
 2 OLDHIST(NEWYEAR-1),
   5 OWT           float dec(6),
   5 OLASTINT      float dec(6),
   5 OINT          float dec(6),
   5 OINTM         float dec(6),
   5 OINTD         float dec(6),
   5 OINTY         float dec(6),
   5 OJOB(10,47)   float dec(6),
   5 OBTWNJOBS(6,5) float dec(6),
   5 OMILIT(6)     float dec(6),
   5 OCALENDAR(17) float dec(6),
   5 OLASTSUM(8)   float dec(6),
 2 WORK_HISTORY(NEWYEAR:NEWYEAR),
   5 WEIGHT,                      /* sampling weight   */
   5 LASTINT,                     /* week number of last interview */
   5 INT,                         /* week number of current interview */
   5 INTM,                        /* month of the interview */
   5 INTD,                        /* day of the interview */
   5 INTY,                        /* year of the interview */
   5 JOB(10),                     /* 10 possible jobs for each interview */
    10 START,                     /* starting week of the job */
    10 STARTM,                    /* starting month of the job */
    10 STARTD,                    /* starting day of the job */
    10 STARTY,                    /* starting year of the job */
    10 STOP,                      /* stopping week of the job */
    10 STOPM,                     /* stopping month of the job */
    10 STOPD,                     /* stopping day of the job */
    10 STOPY,                     /* stopping year of the job */
    10 PAST,                      /* has R worked at job before last interview */
    10 CURRENT,                   /* working at job at interview date */
    10 WHYLEFT,                   /* reason left job if not currently working */
    10 CPSJOB,                    /* is this job same as the cps job */
    10 HOURSWEEK,                 /* usual hours per week at this job */
    10 OCCUPATION,                /* usual occupation at this job */
    10 INDUSTRY,                  /* usual industry at this job */
    10 CLASSWORKER,               /* class of worker at this job */
    10 HOURDAY,                   /* usual hours per day worked at this job */
    10 PAYRATE,                   /* usual wage or salary at this job */
    10 TIMERATE,                  /* time unit to interpret payrate */
    10 HOURLYWAGE,                /* usual wage converted to hourly wage */
    10 UNION,                     /* wages set by collective bargaining */
    10 GOVTJOB,                   /* is this job government-sponsored */
    10 WEEKSNOTWORKED,            /* any weeks not working at this job */
    10 PERIOD_IN_JOB(4),          /* information on each period not working */
      15 PERIODSTART,             /* starting week number of period not working */
      15 PERIODSTOP,              /* stopping week number of period not working */
      15 REASON,                  /* reason not working for this period */
      15 ALL,                     /* how much time unemployed in this period */
      15 LOOK,                    /* number of weeks unemployed in this period */
    10 PREVIOUSEMP#,              /* job number of employer from last int */
    10 PRETEN,                    /* months worked for employer before lastint */
    10 TENURE,                    /* total weeks tenure as of interview date */
    10 NUMBER,                    /* job number which is loaded into 'A' array */
```

```
     5 BETWEEN_JOBS(6),              /* information about periods not working between jobs and military
         service */
      10 BSTART,                     /* week started this period not working */
      10 BSTOP,                      /* week stopped this period not working */
      10 BALL,                       /* how much of period not worked unemployed */
      10 BLOOK,                      /* number of weeks unemployed in this period */
      10 BREASON,                    /* reason not looking for work this period */
     5 MILITARY,                     /* information about active military service */
      10 MSTART1,                    /* starting week of first period of service */
      10 MSTART2,                    /* starting week of second period of service */
      10 MSTOP1,                     /* stopping week of first period of service */
      10 MSTOP2,                     /* stopping week of second period of service */
      10 MILWKSL,                    /* weeks active military service as of int */
      10 MILWKSC,                    /* weeks active military service in the calendar year */
     5 CALENDAR_YEAR_SUM,            /* key variables for the calendar year */
      10 WORKC,                      /* weeks worked in the calendar year */
      10 HOURC,                      /* hours worked in the calendar year */
      10 WUMPC,                      /* weeks unemployed in the calendar year */
      10 WOLFC,                      /* weeks out of labor force in calendar year */
      10 CAL_YEAR_JOBS,              /* number of jobs in the calendar year */
      10 CAL_YEAR_JOB#(10),          /* job numbers in the calendar year */
      10 MISSC,                      /* % of weeks unaccounted for in year */
      10 NWMISSC,                    /* % weeks not employed that can't be split */
     5 LASTINT_SUM,                  /* key variables calculated since last int */
      10 LASTINT_JOBS,               /* number of jobs since last interview */
      10 WORKL,                      /* number of weeks worked since last int */
      10 HOURL,                      /* number of hours worked since last int */
      10 WUMPL,                      /* number of weeks unemployed since last int */
      10 WOLFL,                      /* weeks out of labor force since last int */
      10 WBID,                       /* number of weeks since last int */
      10 MISSL,                      /* % of weeks unaccounted for since last int */
      10 NWMISSL;                    /* % weeks not employed that can't be split */
dcl 1 KEYVARS_out,
  2 PUBLIC_ID PIC '99999999',
  2 HOURLY_WAGES(45) PIC '-------9',
  2 KEYVARS,
   3  OLD_MILVARS(2:4),
     5  MILWEEKSC PIC '-------9',
   3  WORKVARS(1:9),
     5  HOURCAL PIC '-------9',          5  WORKCAL PIC '-------9',
     5  WUMPCAL PIC '-------9',          5  WOLFCAL PIC '-------9',
     5  MISSCAL PIC '-------9',          5  HOURLAST PIC '-------9',
     5  WORKLAST PIC '-------9',         5  WUMPLAST PIC '-------9',
     5  WOLFLAST PIC '-------9',         5  MISSLAST PIC '-------9',
   3  NEW_MILVARS(9:9),
     5  WEEKSBID  PIC '-------9',        5  MILWEEKSL PIC '-------9',
     5  MILWEEKSC PIC '-------9';


dcl (NA,DK,MAX,MAXYEAR,MAXDUAL,MAXINT,PR,SURVEY_YR,
   P,LEAP,FILLER,F,DUP,DUA,NEWYEAR,FLAG,#WEEKS)  float dec(6);
dcl(kount,kountnew,kount_out) fixed bin(15);
 NA=-4; DK=-3; kount=0; kountnew=0; kount_out=0; MAX=0; MAXYEAR=100; MAXDUAL=0; MAXINT=0;
 allocate VARIABLES,STRUCTIN;
1READ1: read file (WORKTAP) into (STRUCTIN);
  kount=kount+1;
  ID=INFO(1);
```

```
 SAMPLE_ID=INFO(2);
 BIRTHM_79=INFO(3);          BIRTHD_79=INFO(4);          BIRTHY_79=INFO(5);
 BIRTHM_81=INFO(6);          BIRTHD_81=INFO(7);          BIRTHY_81=INFO(8);
 A=0; HOUR=0; DUALJOB=0;
 do J=0 to OLDA;
   A(J)=ARRAY1(J); HOUR(J)=ARRAY2(J); DUALJOB(J)=ARRAY3(J);
 end;
 OLDHIST=HISTYRS, by NAME;
 get file(VARSNYR) edit (NORCID,
    Q0310,CURAMIL,Q0317,Q0319,Q0322, /* note: creation of curamil:
                         curamil=q0312
                         if (curamil=-4 | curamil>=7) then curamil=q0358  */
    Q0328,Q0332,Q0333,Q0335,Q0338, Q0340,Q0341,Q0343,Q0345,Q0348,Q0350,Q0352,
    Q0610,Q0613,Q0623,Q0626,Q0716,Q0718,Q0720,Q0722,Q0724,Q0726,Q0728,Q0738,Q0744,
    Q0747,Q0749,Q0751,Q0753,Q0755,Q0757,Q0759,Q0769,Q0775,
    Q0810,Q0812,Q0814,Q0816,Q0818,Q0820,Q0822,Q0832,Q0838,
    Q0841,Q0843,Q0845,Q0847,Q0849,Q0851,Q0853,Q0863,Q0869, Q2068,Q2070) (COL(1),60(F(7)));
get file(VARSNYR) edit ( QB145,QB151,QB159,QB161,QB163,QB165,QB167,QB169,QB170,
    QB172,QB174,QB176,QB210,QB213,QB215,QB217,QB219,QB221,QB223,QB225,QB227,QB237,
    QB246,QB248,QB250,QB252,QB254,QB256,QB258,QB260,QB270,
    QB279,QB310,QB311, QB316,QB319,QB322,QB325,QB332,QB356,QB357) (COL(421),41(F(7)));
get file(VARSNYR) edit (QC145,QC151,QC159,QC161,QC163,QC165,QC167,QC169,QC170,
    QC172,QC174,QC176,QC210,QC213,QC215,QC217,QC219,QC221,QC223,QC225,QC227,QC237,
    QC246,QC248,QC250,QC252,QC254,QC256,QC258,QC260,QC270,
    QC279,QC310,QC311,QC316,QC319,QC322,QC325,QC332,QC356,QC357) (COL(708),41(F(7)));
get file(VARSNYR) edit (QD145,QD151,QD159,QD161,QD163,QD165,QD167,QD169,QD170,
    QD172,QD174,QD176,QD210,QD213,QD215,QD217,QD219,QD221,QD223,QD225,QD227,QD237,
    QD246,QD248,QD250,QD252,QD254,QD256,QD258,QD260,QD270,
    QD279,QD310,QD311,QD316,QD319,QD322,QD325,QD332,QD356,QD357) (COL(995),41(F(7)));
get file(VARSNYR) edit (QE145,QE151,QE159,QE161,QE163,QE165,QE167,QE169,QE170,
    QE172,QE174,QE176,QE210,QE213,QE215,QE217,QE219,QE221,QE223,QE225,QE227,QE237,
    QE246,QE248,QE250,QE252,QE254,QE256,QE258,QE260,QE270,
    QE279,QE310,QE311,QE316,QE319,QE322,QE325,QE332,QE356,QE357) (COL(1282),41(F(7)));
get file(VARSNYR) edit (QF145,QF151,QF159,QF161,QF163,QF165,QF167,QF169,QF170,
    QF172,QF174,QF176,QF210,QF213,QF215,QF217,QF219,QF221,QF223,QF225,QF227,QF237,
    QF246,QF248,QF250,QF252,QF254,QF256,QF258,QF260,QF270,QF279,QF310,QF311,
    QF316,QF319,QF322,QF325,QF332,QF356,QF357,Q4321,WT87,PUBID) (COL(1569),44(F(7)));

 kountnew=kountnew+1;
 if PUBID^=INFO(1) then do;
   put file (sysprint) edit ('error IDS do NOT MATCH. PUBID=', PUBID,'   INFO(1)ID=',INFO(1))
                  (skip(1),A,F(5),skip(1),A,F(5));
   go to done;
 end;
 else do;
  KEYVARS_out=-4;
  PR=1;
  do J=2 to NEWYEAR-1;
    if OLDHIST(J).OWT > 0 then PR=J;
  end;
  WORK_HISTORY(NEWYEAR)=-4;
  WEIGHT(NEWYEAR)=WT87;
  if WEIGHT(NEWYEAR)=0 then WORK_HISTORY(NEWYEAR)=-5;
  else do;
    call NEWVARIABLES;
    call CALC(NEWYEAR);
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     call SUMMER(NEWYEAR);
   end;
   P=0;
   do I=1 to 8;
     do J=1 to 5;
       P=P+1;
       HOURLY_WAGES(P)=VARIABLES.OJOB(I,J,20);
     end;
   end;
   P=41;
   do I=1 to 5;
     HOURLY_WAGES(P)=HOURLYWAGE(9,I);
     P=P+1;
   end;
   do I=2 to 4;
     OLD_MILVARS.MILWEEKSC(I)=VARIABLES.OMILIT(I,6);
   end;
   do I=1 to 8;
     WORKCAL(I)=VARIABLES.OCALENDAR(I,1);    HOURCAL(I)=VARIABLES.OCALENDAR(I,2);
     WUMPCAL(I)=VARIABLES.OCALENDAR(I,3);    WOLFCAL(I)=VARIABLES.OCALENDAR(I,4);
     MISSCAL(I)=VARIABLES.OCALENDAR(I,16);
   end;
   do I=1 to 8;
     WORKLAST(I)=VARIABLES.OLASTSUM(I,2);    HOURLAST(I)=VARIABLES.OLASTSUM(I,3);
     WUMPLAST(I)=VARIABLES.OLASTSUM(I,4);    WOLFLAST(I)=VARIABLES.OLASTSUM(I,5);
     MISSLAST(I)=VARIABLES.OLASTSUM(I,7);
   end;
   WORKCAL(9)=WORKC(9);              HOURCAL(9)=HOURC(9);
   WUMPCAL(9)=WUMPC(9);             WOLFCAL(9)=WOLFC(9);
   MISSCAL(9)=MISSC(9);              WORKLAST(9)=WORKL(9);
   HOURLAST(9)=HOURL(9);            WUMPLAST(9)=WUMPL(9);
   WOLFLAST(9)=WOLFL(9);            MISSLAST(9)=MISSL(9);
   WEEKSBID(9)=WBID(9);             PUBLIC_ID=ID;

   NEW_MILVARS.MILWEEKSC(9)=MILWKSC(9);
   NEW_MILVARS.MILWEEKSL(9)=MILWKSL(9);

   write file(NEWWORK) from (VARIABLES);
   write file(OUTTAPE) from (KEYVARS_out);
   put file(OUTDISK) edit (ID,MILWKSL(9),MILWKSC(9),WORKC(9),HOURC(9),WUMPC(9),WOLFC(9),
     MISSC(9),WORKL(9),HOURL(9),WUMPL(9),WOLFL(9),WBID(9),MISSL(9)) (COL(1),14(F(7)));
   kount_out=kount_out+1;
   go to READ1;
 end;
1NEWVARIABLES:PROC;
 dcl ADDJVBLS(771) float dec(6);
STARTM(NEWYEAR,1)=QB163;         STARTD(NEWYEAR,1)=QB165;
STARTY(NEWYEAR,1)=QB167;         STARTM(NEWYEAR,2)=QC163;
STARTD(NEWYEAR,2)=QC165;         STARTY(NEWYEAR,2)=QC167;
STARTM(NEWYEAR,3)=QD163;         STARTD(NEWYEAR,3)=QD165;
STARTY(NEWYEAR,3)=QD167;         STARTM(NEWYEAR,4)=QE163;
STARTD(NEWYEAR,4)=QE165;         STARTY(NEWYEAR,4)=QE167;
STARTM(NEWYEAR,5)=QF163;         STARTD(NEWYEAR,5)=QF165;
STARTY(NEWYEAR,5)=QF167;         STOPM(NEWYEAR,1)=QB170;
STOPD(NEWYEAR,1)=QB172;          STOPY(NEWYEAR,1)=QB174;
STOPM(NEWYEAR,2)=QC170;          STOPD(NEWYEAR,2)=QC172;
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STOPY(NEWYEAR,2)=QC174;           STOPM(NEWYEAR,3)=QD170;
STOPD(NEWYEAR,3)=QD172;           STOPY(NEWYEAR,3)=QD174;
STOPM(NEWYEAR,4)=QE170;           STOPD(NEWYEAR,4)=QE172;
STOPY(NEWYEAR,4)=QE174;           STOPM(NEWYEAR,5)=QF170;
STOPD(NEWYEAR,5)=QF172;           STOPY(NEWYEAR,5)=QF174;
LASTINT(NEWYEAR)=
  CEIL(WEEK(OLDHIST(PR).OINTM,OLDHIST(PR).OINTD,OLDHIST(PR).OINTY)+1/7);
INT(NEWYEAR)=FLOOR(WEEK(Q2068,Q2070,SURVEY_YR));
INTM(NEWYEAR)=Q2068;
INTD(NEWYEAR)=Q2070;
if WEIGHT(NEWYEAR)>0 then INTY(NEWYEAR)=SURVEY_YR;
HOURDAY(NEWYEAR,1)=QB279;          HOURDAY(NEWYEAR,2)=QC279;
HOURDAY(NEWYEAR,3)=QD279;          HOURDAY(NEWYEAR,4)=QE279;
HOURDAY(NEWYEAR,5)=QF279;
PAYRATE(NEWYEAR,1)=QB325;          PAYRATE(NEWYEAR,2)=QC325;
PAYRATE(NEWYEAR,3)=QD325;          PAYRATE(NEWYEAR,4)=QE325;
PAYRATE(NEWYEAR,5)=QF325;
TIMERATE(NEWYEAR,1)=QB332;         TIMERATE(NEWYEAR,2)=QC332;
TIMERATE(NEWYEAR,3)=QD332;         TIMERATE(NEWYEAR,4)=QE332;
TIMERATE(NEWYEAR,5)=QF332;
UNION(NEWYEAR,1)=QB356;            UNION(NEWYEAR,2)=QC356;
UNION(NEWYEAR,3)=QD356;            UNION(NEWYEAR,4)=QE356;
UNION(NEWYEAR,5)=QF356;
GOVTJOB(NEWYEAR,1)=QB357;          GOVTJOB(NEWYEAR,2)=QC357;
GOVTJOB(NEWYEAR,3)=QD357;          GOVTJOB(NEWYEAR,4)=QE357;
GOVTJOB(NEWYEAR,5)=QF357;
if QB145>-4 then PREVIOUSEMP#(NEWYEAR,1)=QB145; else PREVIOUSEMP#(NEWYEAR,1)=QB151;
if QC145>-4 then PREVIOUSEMP#(NEWYEAR,2)=QC145; else PREVIOUSEMP#(NEWYEAR,2)=QC151;
if QD145>-4 then PREVIOUSEMP#(NEWYEAR,3)=QD145; else PREVIOUSEMP#(NEWYEAR,3)=QD151;
if QE145>-4 then PREVIOUSEMP#(NEWYEAR,4)=QE145; else PREVIOUSEMP#(NEWYEAR,4)=QE151;
if QF145>-4 then PREVIOUSEMP#(NEWYEAR,5)=QF145; else PREVIOUSEMP#(NEWYEAR,5)=QF151;
PRETEN(NEWYEAR,1)=QB161;           PRETEN(NEWYEAR,2)=QC161;
PRETEN(NEWYEAR,3)=QD161;           PRETEN(NEWYEAR,4)=QE161;
PRETEN(NEWYEAR,5)=QF161;
if QB163>-4 then do;
  START(NEWYEAR,1)=WEEK(QB163,QB165,QB167);
  STOP(NEWYEAR,1)=WEEK(QB170,QB172,QB174);
end;
if QC163>-4 then do;
  START(NEWYEAR,2)=WEEK(QC163,QC165,QC167);
  STOP(NEWYEAR,2)=WEEK(QC170,QC172,QC174);
end;
if QD163>-4 then do;
  START(NEWYEAR,3)=WEEK(QD163,QD165,QD167);
  STOP(NEWYEAR,3)=WEEK(QD170,QD172,QD174);
end;
if QE163>-4 then do;
  START(NEWYEAR,4)=WEEK(QE163,QE165,QE167);
  STOP(NEWYEAR,4)=WEEK(QE170,QE172,QE174);
end;
if QF163>-4 then do;
  START(NEWYEAR,5)=WEEK(QF163,QF165,QF167);
  STOP(NEWYEAR,5)=WEEK(QF170,QF172,QF174);
end;
PAST(NEWYEAR,1)=QB159;             PAST(NEWYEAR,2)=QC159;
PAST(NEWYEAR,3)=QD159;             PAST(NEWYEAR,4)=QE159;
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PAST(NEWYEAR,5)=QF159;
CURRENT(NEWYEAR,1)=QB169;          CURRENT(NEWYEAR,2)=QC169;
CURRENT(NEWYEAR,3)=QD169;          CURRENT(NEWYEAR,4)=QE169;
CURRENT(NEWYEAR,5)=QF169;
WHYLEFT(NEWYEAR,1)=QB176;          WHYLEFT(NEWYEAR,2)=QC176;
WHYLEFT(NEWYEAR,3)=QD176;          WHYLEFT(NEWYEAR,4)=QE176;
WHYLEFT(NEWYEAR,5)=QF176;
WEEKSNOTWORKED(NEWYEAR,1)=QB210;        WEEKSNOTWORKED(NEWYEAR,2)=QC210;
WEEKSNOTWORKED(NEWYEAR,3)=QD210;        WEEKSNOTWORKED(NEWYEAR,4)=QE210;
WEEKSNOTWORKED(NEWYEAR,5)=QF210;
CPSJOB(NEWYEAR,1)=QB310;          CPSJOB(NEWYEAR,2)=QC310;
CPSJOB(NEWYEAR,3)=QD310;          CPSJOB(NEWYEAR,4)=QE310;
CPSJOB(NEWYEAR,5)=QF310;
if QB310=1 then do;
  INDUSTRY(NEWYEAR,1)=Q0610;              OCCUPATION(NEWYEAR,1)=Q0613;
  CLASSWORKER(NEWYEAR,1)=Q0623;          HOURSWEEK(NEWYEAR,1)=Q0626;
end;
else do;
  INDUSTRY(NEWYEAR,1)=QB319;              OCCUPATION(NEWYEAR,1)=QB316;
  CLASSWORKER(NEWYEAR,1)=QB322;          HOURSWEEK(NEWYEAR,1)=QB311;
end;
if QC310=1 then do;
  INDUSTRY(NEWYEAR,2)=Q0610;              OCCUPATION(NEWYEAR,2)=Q0613;
  CLASSWORKER(NEWYEAR,2)=Q0623;          HOURSWEEK(NEWYEAR,2)=Q0626;
end;
else do;
  INDUSTRY(NEWYEAR,2)=QC319;              OCCUPATION(NEWYEAR,2)=QC316;
  CLASSWORKER(NEWYEAR,2)=QC322;          HOURSWEEK(NEWYEAR,2)=QC311;
end;
if QD310=1 then do;
  INDUSTRY(NEWYEAR,3)=Q0610;              OCCUPATION(NEWYEAR,3)=Q0613;
  CLASSWORKER(NEWYEAR,3)=Q0623;          HOURSWEEK(NEWYEAR,3)=Q0626;
end;
else do;
  INDUSTRY(NEWYEAR,3)=QD319;              OCCUPATION(NEWYEAR,3)=QD316;
  CLASSWORKER(NEWYEAR,3)=QD322;          HOURSWEEK(NEWYEAR,3)=QD311;
end;
if QE310=1 then do;
  INDUSTRY(NEWYEAR,4)=Q0610;              OCCUPATION(NEWYEAR,4)=Q0613;
  CLASSWORKER(NEWYEAR,4)=Q0623;          HOURSWEEK(NEWYEAR,4)=Q0626;
end;
else do;
  INDUSTRY(NEWYEAR,4)=QE319;              OCCUPATION(NEWYEAR,4)=QE316;
  CLASSWORKER(NEWYEAR,4)=QE322;          HOURSWEEK(NEWYEAR,4)=QE311;
end;
if QF310=1 then do;
  INDUSTRY(NEWYEAR,5)=Q0610;              OCCUPATION(NEWYEAR,5)=Q0613;
  CLASSWORKER(NEWYEAR,5)=Q0623;          HOURSWEEK(NEWYEAR,5)=Q0626;
end;
else do;
  INDUSTRY(NEWYEAR,5)=QF319;              OCCUPATION(NEWYEAR,5)=QF316;
  CLASSWORKER(NEWYEAR,5)=QF322;          HOURSWEEK(NEWYEAR,5)=QF311;
end;
if QB213>-4 then do;
  PERIODSTART(NEWYEAR,1,1)=WEEK(QB213,QB215,QB217);
  PERIODSTOP(NEWYEAR,1,1)=WEEK(QB219,QB221,QB223);
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end;
if QB246>-4 then do;
  PERIODSTART(NEWYEAR,1,2)=WEEK(QB246,QB248,QB250);
  PERIODSTOP(NEWYEAR,1,2)=WEEK(QB252,QB254,QB256);
end;
if QC213>-4 then do;
  PERIODSTART(NEWYEAR,2,1)=WEEK(QC213,QC215,QC217);
  PERIODSTOP(NEWYEAR,2,1)=WEEK(QC219,QC221,QC223);
end;
if QC246>-4 then do;
  PERIODSTART(NEWYEAR,2,2)=WEEK(QC246,QC248,QC250);
  PERIODSTOP(NEWYEAR,2,2)=WEEK(QC252,QC254,QC256);
end;
if QD213>-4 then do;
  PERIODSTART(NEWYEAR,3,1)=WEEK(QD213,QD215,QD217);
  PERIODSTOP(NEWYEAR,3,1)=WEEK(QD219,QD221,QD223);
end;
if QD246>-4 then do;
  PERIODSTART(NEWYEAR,3,2)=WEEK(QD246,QD248,QD250);
  PERIODSTOP(NEWYEAR,3,2)=WEEK(QD252,QD254,QD256);
end;
if QE213>-4 then do;
  PERIODSTART(NEWYEAR,4,1)=WEEK(QE213,QE215,QE217);
  PERIODSTOP(NEWYEAR,4,1)=WEEK(QE219,QE221,QE223);
end;
if QE246>-4 then do;
  PERIODSTART(NEWYEAR,4,2)=WEEK(QE246,QE248,QE250);
  PERIODSTOP(NEWYEAR,4,2)=WEEK(QE252,QE254,QE256);
end;
if QF213>-4 then do;
  PERIODSTART(NEWYEAR,5,1)=WEEK(QF213,QF215,QF217);
  PERIODSTOP(NEWYEAR,5,1)=WEEK(QF219,QF221,QF223);
end;
if QF246>-4 then do;
  PERIODSTART(NEWYEAR,5,2)=WEEK(QF246,QF248,QF250);
  PERIODSTOP(NEWYEAR,5,2)=WEEK(QF252,QF254,QF256);
end;
REASON(NEWYEAR,1,1)=QB225;          REASON(NEWYEAR,1,2)=QB258;
REASON(NEWYEAR,2,1)=QC225;          REASON(NEWYEAR,2,2)=QC258;
REASON(NEWYEAR,3,1)=QD225;          REASON(NEWYEAR,3,2)=QD258;
REASON(NEWYEAR,4,1)=QE225;          REASON(NEWYEAR,4,2)=QE258;
REASON(NEWYEAR,5,1)=QF225;          REASON(NEWYEAR,5,2)=QF258;
ALL(NEWYEAR,1,1)=QB227;             ALL(NEWYEAR,1,2)=QB260;
ALL(NEWYEAR,2,1)=QC227;             ALL(NEWYEAR,2,2)=QC260;
ALL(NEWYEAR,3,1)=QD227;             ALL(NEWYEAR,3,2)=QD260;
ALL(NEWYEAR,4,1)=QE227;             ALL(NEWYEAR,4,2)=QE260;
ALL(NEWYEAR,5,1)=QF227;             ALL(NEWYEAR,5,2)=QF260;
LOOK(NEWYEAR,1,1)=QB237;            LOOK(NEWYEAR,1,2)=QB270;
LOOK(NEWYEAR,2,1)=QC237;            LOOK(NEWYEAR,2,2)=QC270;
LOOK(NEWYEAR,3,1)=QD237;            LOOK(NEWYEAR,3,2)=QD270;
LOOK(NEWYEAR,4,1)=QE237;            LOOK(NEWYEAR,4,2)=QE270;
LOOK(NEWYEAR,5,1)=QF237;            LOOK(NEWYEAR,5,2)=QF270;
if ID=298 then do;
  PERIODSTART(NEWYEAR,1,3)=WEEK(9,15,86);    PERIODSTOP(NEWYEAR,1,3)=WEEK(9,29,86);
  REASON(NEWYEAR,1,3)=4;              ALL(NEWYEAR,1,3)=3;
  PERIODSTART(NEWYEAR,1,4)=WEEK(8,11,86);
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    PERIODSTOP(NEWYEAR,1,4)=WEEK(9,1,86);
    REASON(NEWYEAR,1,4)=4;              ALL(NEWYEAR,1,4)=3;
  end;
  if ID=549 then do;
    PERIODSTART(NEWYEAR,2,3)=WEEK(8,16,86);   PERIODSTOP(NEWYEAR,2,3)=WEEK(8,27,86);
    REASON(NEWYEAR,2,3)=4;              ALL(NEWYEAR,2,3)=1;
  end;
  if ID=1806 then do;
    PERIODSTART(NEWYEAR,1,3)=WEEK(12,1,86);   PERIODSTOP(NEWYEAR,1,3)=WEEK(12,31,86);
    REASON(NEWYEAR,1,3)=4;              ALL(NEWYEAR,1,3)=1;
  end;
  if ID=2620 then do;
    PERIODSTART(NEWYEAR,1,3)=WEEK(1,15,87);   PERIODSTOP(NEWYEAR,1,3)=WEEK(2,5,87);
    REASON(NEWYEAR,1,3)=2;
    PERIODSTART(NEWYEAR,1,4)=WEEK(4,3,87);   PERIODSTOP(NEWYEAR,1,4)=WEEK(4,29,87);
    REASON(NEWYEAR,1,4)=2;
  end;
  if ID=2870 then do;
    PERIODSTART(NEWYEAR,2,3)=WEEK(1,1,87);   PERIODSTOP(NEWYEAR,2,3)=WEEK(5,5,87);
    REASON(NEWYEAR,2,3)=6;
  end;
  if ID=2915 then do;
    PERIODSTART(NEWYEAR,1,3)=WEEK(6,18,87);   PERIODSTOP(NEWYEAR,1,3)=WEEK(7,2,87);
    REASON(NEWYEAR,1,3)=14;             ALL(NEWYEAR,1,3)=1;
  end;
  if ID=3256 then do;
    PERIODSTART(NEWYEAR,1,3)=WEEK(1,1,87);   PERIODSTOP(NEWYEAR,1,3)=WEEK(2,15,87);
    REASON(NEWYEAR,1,3)=4;
    PERIODSTART(NEWYEAR,1,4)=WEEK(4,1,87);   PERIODSTOP(NEWYEAR,1,4)=WEEK(5,5,87);
    REASON(NEWYEAR,1,4)=4;
  end;
  if ID=3905 then do;
    PERIODSTART(NEWYEAR,1,3)=WEEK(7,6,87);   PERIODSTOP(NEWYEAR,1,3)=WEEK(7,20,87);
    REASON(NEWYEAR,1,3)=2;
  end;
  if ID=4766 then do;
    PERIODSTART(NEWYEAR,2,3)=WEEK(4,6,87);   PERIODSTOP(NEWYEAR,2,3)=WEEK(5,11,87);
    REASON(NEWYEAR,2,3)=14;
    PERIODSTART(NEWYEAR,2,4)=WEEK(10,6,86);   PERIODSTOP(NEWYEAR,2,4)=WEEK(1,4,87);
    REASON(NEWYEAR,2,4)=14;
  end;
  if ID=4820 then do;
    PERIODSTART(NEWYEAR,3,3)=WEEK(7,20,86);   PERIODSTOP(NEWYEAR,3,3)=WEEK(7,27,86);
    REASON(NEWYEAR,3,3)=2;
  end;
  if ID=5051 then do;
    PERIODSTART(NEWYEAR,2,3)=WEEK(5,25,86);   PERIODSTOP(NEWYEAR,2,3)=WEEK(6,5,86);
    REASON(NEWYEAR,2,3)=14;             ALL(NEWYEAR,2,3)=1;
  end;
  if ID=5624 then do;
    PERIODSTART(NEWYEAR,2,3)=WEEK(3,9,87);   PERIODSTOP(NEWYEAR,2,3)=WEEK(3,16,87);
    REASON(NEWYEAR,2,3)=12;
  end;
  if ID=5839 then do;
    PERIODSTART(NEWYEAR,1,3)=WEEK(4,18,87);   PERIODSTOP(NEWYEAR,1,3)=WEEK(4,26,87);
    REASON(NEWYEAR,1,3)=2;
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    PERIODSTART(NEWYEAR,1,4)=WEEK(3,1,87);    PERIODSTOP(NEWYEAR,1,4)=WEEK(3,9,87);
    REASON(NEWYEAR,1,4)=2;
end;
if ID=5909 then do;
    PERIODSTART(NEWYEAR,1,3)=WEEK(1,6,87);    PERIODSTOP(NEWYEAR,1,3)=WEEK(6,1,87);
    REASON(NEWYEAR,1,3)=3;              ALL(NEWYEAR,1,3)=1;
end;
if ID=6666 then do;
    PERIODSTART(NEWYEAR,1,3)=WEEK(-2,-2,-2);    PERIODSTOP(NEWYEAR,1,3)=WEEK(-2,-2,-2);
    REASON(NEWYEAR,1,3)=4;              ALL(NEWYEAR,1,3)=3;
    PERIODSTART(NEWYEAR,1,4)=WEEK(-2,-2,-2);    PERIODSTOP(NEWYEAR,1,4)=WEEK(-2,-2,-2);
    REASON(NEWYEAR,1,4)=4;              ALL(NEWYEAR,1,4)=3;
end;
if ID=7566 then do;
    PERIODSTART(NEWYEAR,1,3)=WEEK(1,12,87);    PERIODSTOP(NEWYEAR,1,3)=WEEK(2,20,87);
    REASON(NEWYEAR,1,3)=4;
end;
if ID=7603 then do;
    PERIODSTART(NEWYEAR,1,3)=WEEK(4,28,87);    PERIODSTOP(NEWYEAR,1,3)=WEEK(5,8,87);
    REASON(NEWYEAR,1,3)=11;
    PERIODSTART(NEWYEAR,1,4)=WEEK(5,20,87);    PERIODSTOP(NEWYEAR,1,4)=WEEK(5,29,87);
    REASON(NEWYEAR,1,4)=13;
end;
if ID=7992 then do;
    PERIODSTART(NEWYEAR,1,3)=WEEK(2,9,87);    PERIODSTOP(NEWYEAR,1,3)=WEEK(2,21,87);
    REASON(NEWYEAR,1,3)=4;              ALL(NEWYEAR,1,3)=1;
end;
if ID=8320 then do;
    PERIODSTART(NEWYEAR,1,3)=WEEK(6,29,87);    PERIODSTOP(NEWYEAR,1,3)=WEEK(7,14,87);
    REASON(NEWYEAR,1,3)=2;
end;
if ID=9441 then do;
    PERIODSTART(NEWYEAR,1,3)=WEEK(12,25,86);    PERIODSTOP(NEWYEAR,1,3)=WEEK(1,6,87);
    REASON(NEWYEAR,1,3)=6;
    PERIODSTART(NEWYEAR,1,4)=WEEK(1,22,87);    PERIODSTOP(NEWYEAR,1,4)=WEEK(2,3,87);
    REASON(NEWYEAR,1,4)=6;
end;
if ID=11816 then do;
    PERIODSTART(NEWYEAR,1,3)=WEEK(7,14,86);    PERIODSTOP(NEWYEAR,1,3)=WEEK(7,28,86);
    REASON(NEWYEAR,1,3)=13;
end;
if ID=376 then do;
    BSTART(NEWYEAR,5)=WEEK(2,24,86);             BSTOP(NEWYEAR,5)=WEEK(4,4,86);
    BALL(NEWYEAR,5)=-3;                          BLOOK(NEWYEAR,5)=-3;
    BREASON(NEWYEAR,5)=-3;
end;
if ID=4505 then do;
    BSTART(NEWYEAR,5)=WEEK(4,9,85);              BSTOP(NEWYEAR,5)=WEEK(10,14,85);
    BALL(NEWYEAR,5)=2;                           BLOOK(NEWYEAR,5)=4;
    BREASON(NEWYEAR,5)=6;                        BSTART(NEWYEAR,6)=WEEK(2,2,85);
    BSTOP(NEWYEAR,6)=WEEK(3,2,85);               BALL(NEWYEAR,6)=2;
    BLOOK(NEWYEAR,6)=1;                          BREASON(NEWYEAR,6)=6;
end;
if ID=4878 then do;
    BSTART(NEWYEAR,5)=WEEK(3,1,86);              BSTOP(NEWYEAR,5)=WEEK(3,10,86);
    BALL(NEWYEAR,5)=3;
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end;
if ID=9105 then do;
  BSTART(NEWYEAR,5)=WEEK(5,25,86);          BSTOP(NEWYEAR,5)=WEEK(6,1,86);
  BALL(NEWYEAR,5)=3;
end;
if ID=9835 then do;
  BSTART(NEWYEAR,5)=WEEK(3,17,86);          BSTOP(NEWYEAR,5)=WEEK(10,1,86);
  BALL(NEWYEAR,5)=1;                        BREASON(NEWYEAR,5)=13;
end;
if Q0716>-4 then do;
  BSTART(NEWYEAR,1)=WEEK(Q0716,Q0718,Q0720);
  BSTOP(NEWYEAR,1)=WEEK(Q0722,Q0724,Q0726);
end;
if Q0747>-4 then do;
  BSTART(NEWYEAR,2)=WEEK(Q0747,Q0749,Q0751);
  BSTOP(NEWYEAR,2)=WEEK(Q0753,Q0755,Q0757);
end;
if Q0810>-4 then do;
  BSTART(NEWYEAR,3)=WEEK(Q0810,Q0812,Q0814);
  BSTOP(NEWYEAR,3)=WEEK(Q0816,Q0818,Q0820);
end;
if Q0841>-4 then do;
  BSTART(NEWYEAR,4)=WEEK(Q0841,Q0843,Q0845);
  BSTOP(NEWYEAR,4)=WEEK(Q0847,Q0849,Q0851);
end;
BALL(NEWYEAR,1)=Q0728;            BALL(NEWYEAR,2)=Q0759;
BALL(NEWYEAR,3)=Q0822;            BALL(NEWYEAR,4)=Q0853;
BLOOK(NEWYEAR,1)=Q0738;           BLOOK(NEWYEAR,2)=Q0769;
BLOOK(NEWYEAR,3)=Q0832;           BLOOK(NEWYEAR,4)=Q0863;
BREASON(NEWYEAR,1)=Q0744;         BREASON(NEWYEAR,2)=Q0775;
BREASON(NEWYEAR,3)=Q0838;         BREASON(NEWYEAR,4)=Q0869;
MIL_error=0;
if ID=1097 | ID=3731 | ID=4847 | ID=6272 | ID=7285 | ID=8463 | ID=8588 | ID=8647 | ID=8894 | ID=9377 |
        ID=10368 | ID=10439 | ID=10967 then MIL_error=1;
if Q0310=1 & Q4321>=1 & Q4321<=4 & MIL_error=0 then do;
  if CURAMIL=1 then MSTOP1(NEWYEAR)=INT(NEWYEAR);
  else MSTOP1(NEWYEAR)=WEEK(Q0317,Q0322,Q0319);
  MSTART1(NEWYEAR)=LASTINT(NEWYEAR);
  if MSTART1(NEWYEAR)>=0 & MSTOP1(NEWYEAR)>=MSTART1(NEWYEAR) then
    call FILL(MSTART1(NEWYEAR),MSTOP1(NEWYEAR),7,0);
end;
if Q0328>=1 & Q0328<=4 then do;
  if Q0332=1 then do;
    MSTART2(NEWYEAR)=WEEK(Q0333,Q0338,Q0335);
    MSTOP2(NEWYEAR)=INT(NEWYEAR);
  end;
  else if Q0340=1 then do;
    MSTART2(NEWYEAR)=WEEK(Q0341,Q0343,Q0345);
    MSTOP2(NEWYEAR)=WEEK(Q0348,Q0350,Q0352);
  end;
  if MSTART2(NEWYEAR)>=0 & MSTOP2(NEWYEAR)>=MSTART2(NEWYEAR) then
    call FILL(MSTART2(NEWYEAR),MSTOP2(NEWYEAR),7,0);
end;
if MSTART1(NEWYEAR)>-4 | MSTART2(NEWYEAR)>-4 | MSTOP1(NEWYEAR)>-4
  | MSTOP2(NEWYEAR)>-4 & MIL_error=0 then do;
  if MSTART1(NEWYEAR)=-3 | MSTART2(NEWYEAR)=-3 | MSTOP1(NEWYEAR)=-3
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      | MSTOP2(NEWYEAR)=-3 then do;
        MILWKSL(NEWYEAR)=-3;
        MILWKSC(NEWYEAR)=-3;
      end;
      else do;
        MILWKSL(NEWYEAR)=0;
        MILWKSC(NEWYEAR)=0;
        if MSTART1(NEWYEAR)>=0 then MILWKSL(NEWYEAR)=
          MSTOP1(NEWYEAR) - MSTART1(NEWYEAR) + 1;
        if MSTART2(NEWYEAR)>=0 then MILWKSL(NEWYEAR)=
          MILWKSL(NEWYEAR) + MSTOP2(NEWYEAR) - MSTART2(NEWYEAR) + 1;
        MILWKSL(NEWYEAR)=FLOOR(MILWKSL(NEWYEAR)+.5);
      end;
    end;
  if ID=43   | ID=1106  | ID=1326  | ID=2380 | ID=2626  | ID=3019  | ID=3157  | ID=4507   | ID=5171  | ID=5340 |
          ID=5758  | ID=5932   | ID=6093  | ID=6981  | ID=7024  | ID=7485   | ID=7589  | ID=7675  | ID=8331  |
          ID=8891   | ID=9105  | ID=9759  | ID=10039 | ID=10133  | ID=11844 | ID=11871 | ID=11882 |
          ID=12038 then do;
    read file(ADDJOBS) into(ADDJVBLS);
    STARTM(NEWYEAR,6)=ADDJVBLS(19);           STARTD(NEWYEAR,6)=ADDJVBLS(20);
    STARTY(NEWYEAR,6)=ADDJVBLS(21);           STARTM(NEWYEAR,7)=ADDJVBLS(129);
    STARTD(NEWYEAR,7)=ADDJVBLS(130);          STARTY(NEWYEAR,7)=ADDJVBLS(131);
    STARTM(NEWYEAR,8)=ADDJVBLS(239);          STARTD(NEWYEAR,8)=ADDJVBLS(240);
    STARTY(NEWYEAR,8)=ADDJVBLS(241);          STARTM(NEWYEAR,9)=ADDJVBLS(349);
    STARTD(NEWYEAR,9)=ADDJVBLS(350);          STARTY(NEWYEAR,9)=ADDJVBLS(351);
    STARTM(NEWYEAR,10)=ADDJVBLS(459);         STARTD(NEWYEAR,10)=ADDJVBLS(460);
    STARTY(NEWYEAR,10)=ADDJVBLS(461);         STOPM(NEWYEAR,6)=ADDJVBLS(23);
    STOPD(NEWYEAR,6)=ADDJVBLS(24);            STOPY(NEWYEAR,6)=ADDJVBLS(25);
    STOPM(NEWYEAR,7)=ADDJVBLS(133);           STOPD(NEWYEAR,7)=ADDJVBLS(134);
    STOPY(NEWYEAR,7)=ADDJVBLS(135);           STOPM(NEWYEAR,8)=ADDJVBLS(243);
    STOPD(NEWYEAR,8)=ADDJVBLS(244);           STOPY(NEWYEAR,8)=ADDJVBLS(245);
    STOPM(NEWYEAR,9)=ADDJVBLS(353);           STOPD(NEWYEAR,9)=ADDJVBLS(354);
    STOPY(NEWYEAR,9)=ADDJVBLS(355);           STOPM(NEWYEAR,10)=ADDJVBLS(463);
    STOPD(NEWYEAR,10)=ADDJVBLS(464);          STOPY(NEWYEAR,10)=ADDJVBLS(465);
    if ADDJVBLS(7)>-4 then PREVIOUSEMP#(NEWYEAR,6)=ADDJVBLS(7);
    else PREVIOUSEMP#(NEWYEAR,6)=ADDJVBLS(12);
    if ADDJVBLS(117)>-4 then PREVIOUSEMP#(NEWYEAR,7)=ADDJVBLS(117);
    else PREVIOUSEMP#(NEWYEAR,7)=ADDJVBLS(122);
    if ADDJVBLS(227)>-4 then PREVIOUSEMP#(NEWYEAR,8)=ADDJVBLS(227);
    else PREVIOUSEMP#(NEWYEAR,8)=ADDJVBLS(232);
    if ADDJVBLS(337)>-4 then PREVIOUSEMP#(NEWYEAR,9)=ADDJVBLS(337);
    else PREVIOUSEMP#(NEWYEAR,9)=ADDJVBLS(342);
    if ADDJVBLS(447)>-4 then PREVIOUSEMP#(NEWYEAR,10)=ADDJVBLS(447);
    else PREVIOUSEMP#(NEWYEAR,10)=ADDJVBLS(452);
    PRETEN(NEWYEAR,6)=ADDJVBLS(18);           PRETEN(NEWYEAR,7)=ADDJVBLS(128);
    PRETEN(NEWYEAR,8)=ADDJVBLS(238);          PRETEN(NEWYEAR,9)=ADDJVBLS(348);
    PRETEN(NEWYEAR,10)=ADDJVBLS(458);
    OCCUPATION(NEWYEAR,6)=ADDJVBLS(67);   OCCUPATION(NEWYEAR,7)=ADDJVBLS(177);
    OCCUPATION(NEWYEAR,8)=ADDJVBLS(287);   OCCUPATION(NEWYEAR,9)=ADDJVBLS(397);
    OCCUPATION(NEWYEAR,10)=ADDJVBLS(507);
    INDUSTRY(NEWYEAR,6)=ADDJVBLS(68);      INDUSTRY(NEWYEAR,7)=ADDJVBLS(178);
    INDUSTRY(NEWYEAR,8)=ADDJVBLS(288);     INDUSTRY(NEWYEAR,9)=ADDJVBLS(398);
    INDUSTRY(NEWYEAR,10)=ADDJVBLS(508);
    CLASSWORKER(NEWYEAR,6)=ADDJVBLS(69);   CLASSWORKER(NEWYEAR,7)=ADDJVBLS(179);
    CLASSWORKER(NEWYEAR,8)=ADDJVBLS(289); CLASSWORKER(NEWYEAR,9)=ADDJVBLS(399);
    CLASSWORKER(NEWYEAR,10)=ADDJVBLS(509);
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  HOURDAY(NEWYEAR,6)=ADDJVBLS(61);         HOURDAY(NEWYEAR,7)=ADDJVBLS(171);
  HOURDAY(NEWYEAR,8)=ADDJVBLS(281);        HOURDAY(NEWYEAR,9)=ADDJVBLS(391);
  HOURDAY(NEWYEAR,10)=ADDJVBLS(501);
  PAYRATE(NEWYEAR,6)=ADDJVBLS(72);         PAYRATE(NEWYEAR,7)=ADDJVBLS(182);
  PAYRATE(NEWYEAR,8)=ADDJVBLS(292);        PAYRATE(NEWYEAR,9)=ADDJVBLS(402);
  PAYRATE(NEWYEAR,10)=ADDJVBLS(512);
  TIMERATE(NEWYEAR,6)=ADDJVBLS(73);        TIMERATE(NEWYEAR,7)=ADDJVBLS(183);
  TIMERATE(NEWYEAR,8)=ADDJVBLS(293);       TIMERATE(NEWYEAR,9)=ADDJVBLS(403);
  TIMERATE(NEWYEAR,10)=ADDJVBLS(513);
  UNION(NEWYEAR,6)=ADDJVBLS(82);           UNION(NEWYEAR,7)=ADDJVBLS(192);
  UNION(NEWYEAR,8)=ADDJVBLS(302);          UNION(NEWYEAR,9)=ADDJVBLS(412);
  UNION(NEWYEAR,10)=ADDJVBLS(522);
  GOVTJOB(NEWYEAR,6)=ADDJVBLS(64);         GOVTJOB(NEWYEAR,7)=ADDJVBLS(174);
  GOVTJOB(NEWYEAR,8)=ADDJVBLS(284);        GOVTJOB(NEWYEAR,9)=ADDJVBLS(394);
  GOVTJOB(NEWYEAR,10)=ADDJVBLS(504);
  N=19;
  do J=6 to 10;
    if ADDJVBLS(N)>-4 then do;
      START(NEWYEAR,J)=WEEK(ADDJVBLS(N),ADDJVBLS(N+1),ADDJVBLS(N+2));
      STOP(NEWYEAR,J)=WEEK(ADDJVBLS(N+4),ADDJVBLS(N+5),ADDJVBLS(N+6));
    end;
    N=N+110;
  end;
  N=22;
  do J=6 to 10;
    CURRENT(NEWYEAR,J)=ADDJVBLS(N);
    HOURSWEEK(NEWYEAR,J)=ADDJVBLS(N+41);
    WEEKSNOTWORKED(NEWYEAR,J)=ADDJVBLS(N+7);
    PAST(NEWYEAR,J)=ADDJVBLS(N-6);
    P=N;
    do K=1 to 2;
      if ADDJVBLS(P+8)>-4 then do;
        PERIODSTART(NEWYEAR,J,K)=
          WEEK(ADDJVBLS(P+9),ADDJVBLS(P+10),ADDJVBLS(P+11));
        PERIODSTOP(NEWYEAR,J,K)=
          WEEK(ADDJVBLS(P+12),ADDJVBLS(P+13),ADDJVBLS(P+14));
      end;
      REASON(NEWYEAR,J,K)=ADDJVBLS(P+15);
      ALL(NEWYEAR,J,K)=ADDJVBLS(P+16);
      LOOK(NEWYEAR,J,K)=ADDJVBLS(P+20);
      P=P+15;
    end;
    N=N+110;
  end;
 end;
end NEWVARIABLES;
end DMPDATA;

1WEEK:PROC(MONTH,DAY,YEAR) RETURNS(float dec);
/******* The purpose of the week function is to take a date passed to it and to convert that date into a week
         number relative to 1-1-78.  Note that dates prior to 1-1-78 are assigned to week 0, missing days are
         assigned to day 15 of the month and a '-3' is returned if the date is not valid. ******************/
dcl (MONTH,DAY,YEAR) float dec(6);
dcl MON(12) float dec(6) INIT(0,31,59,90,120,151,181,212,243,273,304,334);
if YEAR>0 & YEAR<MAXYEAR then MAXYEAR=YEAR;
if YEAR>0 & YEAR<78 then RETURN(0);
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  else if MONTH>0 & YEAR>0 & DAY<0 then DAY=15;
 if MONTH>0 & MONTH<=12 & DAY>0 & DAY<32 & YEAR>=78 & YEAR<97 then do;
    LEAP=0;
   if YEAR>=80 then do;
      LEAP=CEIL((YEAR-80)/4);
      if MOD(YEAR,4)=0 & MONTH>2 then LEAP=LEAP+1;
    end;
    RETURN(((YEAR-78) *365 + MON(MONTH) + DAY + LEAP)/7);
 end;
 else RETURN(-3);
 end WEEK;

1CALC: PROC(YR);
 dcl YR float dec(6);
 dcl CODE float dec(6);
 CODE=-4;
 LASTINT_JOBS(YR)=0;
 do J=1 to 10;
    FLAG=0;
   if START(YR,J)>-4 | STOP(YR,J)>-4 then do;
      LASTINT_JOBS(YR)=LASTINT_JOBS(YR)+1;
      NUMBER(YR,J)=YR*100+J;
      HOURLYWAGE(YR,J)=HRP(NUMBER(YR,J));
      if PAST(YR,J)=1 | PAST(YR,J)=2 then START(YR,J)=LASTINT(YR);
      if CURRENT(YR,J)=1 then STOP(YR,J)=INT(YR);
      else if STOP(YR,J)>0 & STOP(YR,J)>INT(YR) then STOP(YR,J)=INT(YR);
      if START(YR,J)>=0 & STOP(YR,J)>=START(YR,J) then do;
        START(YR,J)=CEIL(START(YR,J));
        STOP(YR,J)=CEIL(STOP(YR,J));
        TENURE(YR,J)=STOP(YR,J) - START(YR,J) + 1;
        call FILL(START(YR,J),STOP(YR,J),NUMBER(YR,J),HOURSWEEK(YR,J));
      end;
      else TENURE(YR,J)=-3;
      FLAG=1;
      if WEEKSNOTWORKED(YR,J)^=0 & WEEKSNOTWORKED(YR,J)^=-4 then do K=1 to 4;
        if PERIODSTOP(YR,J,K)>=0 & PERIODSTOP(YR,J,K)>INT(YR) then
          PERIODSTOP(YR,J,K)=INT(YR);
        if PERIODSTART(YR,J,K)>=0 & PERIODSTOP(YR,J,K)>=PERIODSTART(YR,J,K) then do;
          if REASON(YR,J,K)=2 then CODE=4;
          else if REASON(YR,J,K)>0 then do;
            if REASON(YR,J,K)^=3 & REASON(YR,J,K)^=4 then CODE=5;
            else do;
              if ALL(YR,J,K)=1 then CODE=5;
              else if ALL(YR,J,K)=3 then CODE=4;
              else if ALL(YR,J,K)=2 & LOOK(YR,J,K)>=0 then do;
                CODE=9;
                #WEEKS=LOOK(YR,J,K);
              end;
              else CODE=2;
            end;
          end;
          else CODE=2;
          call FILL(PERIODSTART(YR,J,K),PERIODSTOP(YR,J,K),CODE,HOURSWEEK(YR,J));
        end;
        else if K=1 then call FILL(START(YR,J),STOP(YR,J),3,HOURSWEEK(YR,J));
      end;
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    if PREVIOUSEMP#(YR,J)>0 then do;
     if TENURE(YR,J)>0 & OLDHIST.OJOB(PR,PREVIOUSEMP#(YR,J),46)>0 then
      TENURE(YR,J)=TENURE(YR,J)+OLDHIST.OJOB(PR,PREVIOUSEMP#(YR,J),46);
       else TENURE(YR,J)=-3;
     end;
     if PRETEN(YR,J)>-4 then do;
       if TENURE(YR,J)>=0 & PRETEN(YR,J)>=0 then
         TENURE(YR,J)=TENURE(YR,J) + 4.3 * PRETEN(YR,J);
       else TENURE(YR,J)=-3;
      end;
     if TENURE(YR,J)<0 then TENURE(YR,J)=-3;
     else TENURE(YR,J)=FLOOR(TENURE(YR,J) + .5);
   end;
 end;
 FLAG=0;
 do K=1 to 6;
   if BSTOP(YR,K)>=0 & BSTOP(YR,K)>INT(YR) then BSTOP(YR,K)=INT(YR);
   if BSTART(YR,K)>=0 & BSTOP(YR,K)>=BSTART(YR,K) then do;
     if BALL(YR,K)=1 then CODE=5;
     else if BALL(YR,K)=3 then CODE=4;
     else if BALL(YR,K)=2 & BLOOK(YR,K)>=0 then do;
       CODE=9;
       #WEEKS=BLOOK(YR,K);
     end;
     else CODE=2;
     call FILL(BSTART(YR,K),BSTOP(YR,K),CODE,0);
   end;
 end;
 PR=YR;
 end CALC;

1FILL:PROC(WEEK_BEGAN,WEEK_ENDED,COD,HOURS);
 dcl (WEEK_BEGAN,WEEK_ENDED,COD,HOURS) float dec;
 if HOURS<0 then HOURS=-3;
 else if HOURS=99 | HOURS=98 | HOURS=97 then HOURS=-3;
 FILLER=0;WEEK_BEGAN=CEIL(WEEK_BEGAN);WEEK_ENDED=CEIL(WEEK_ENDED);
 if WEEK_BEGAN>=0 & WEEK_ENDED>=WEEK_BEGAN then do F=WEEK_BEGAN to WEEK_ENDED;
   if A(F)>100 & COD>100 &
   PR*100+PREVIOUSEMP#((FLOOR(COD/100)),(MOD(COD,100)))^=A(F) then do;
     DUP=0;
     if DUALJOB(F)>0 then do;
       DUA=DUALJOB(F);
       do UNTIL(DUA=0);
         if PR*100+PREVIOUSEMP#((FLOOR(COD/100)),(MOD(COD,100)))=
           MOD(DUA,1000) then DUP=1;
         DUA=FLOOR(DUA/1000);
       end;
     end;
     if DUP=0 then do;
       if HOURS>0 & HOUR(F)>=0 then do;
         HOUR(F)=HOUR(F) + HOURS;
         if HOUR(F)>96 then HOUR(F)=96;
       end;
       else if HOUR(F)<96 then HOUR(F)=-3;
       DUALJOB(F)=DUALJOB(F)*1000+COD;
     end;
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         end;
       else if DUALJOB(F)=0 & (FLAG=1 | A(F)<100) then do;
         if COD=9 then do;
           if HOURS>0 & HOUR(F)>0 & (HOUR(F) - HOURS>=0) then HOUR(F)=HOUR(F) - HOURS;
           else if HOURS>0 then HOUR(F)=0;
           else HOUR(F)=HOURS;
           if FILLER<#WEEKS & F>(WEEK_ENDED-WEEK_BEGAN-#WEEKS)/2 + WEEK_BEGAN then do;
             A(F)=4;
             FILLER=FILLER+1;
           end;
           else if A(F)^=4 then A(F)=5;
         end;
         else if (A(F)^=4 | COD>100) then do;
           A(F)=COD;
           if COD>100 then HOUR(F)=HOURS;
           else if HOURS>0 & COD^=3 then HOUR(F)=0;
           else HOUR(F)=HOURS;
         end;
       end;
       else if DUALJOB(F)>0  & FLAG=1 & (COD=2 | COD=4 | COD=5 | COD=9) then do;
         DUALJOB(F)=FLOOR(DUALJOB(F)/1000);
         if HOURS>0 & HOUR(F)>0 & (HOUR(F) - HOURS >=0) then HOUR(F)=HOUR(F) - HOURS;
         else if HOURS>0 then HOUR(F)=0;
         else HOUR(F)=HOURS;
       end;
       if DUALJOB(F)>=100000000000000 then DUALJOB(F)=FLOOR(DUALJOB(F)/1000);
     end;
     end FILL;

1SUMMER:PROC(YEAR);
 dcl YEAR float dec;
 CALENDAR_YEAR_SUM(YEAR)=0;
 WORKL(YEAR),HOURL(YEAR),WOLFL(YEAR),WUMPL(YEAR),MISSL(YEAR),NWMISSL(YEAR)=0;
 do K=LASTINT(YEAR) to INT(YEAR);
   if A(K)>100 then do;
     WORKL(YEAR)=WORKL(YEAR)+1;
     if HOURL(YEAR)^=-3 & HOUR(K)>0 then HOURL(YEAR)=HOURL(YEAR)+HOUR(K);
     else HOURL(YEAR)=-3;
   end;
   else if A(K)=4 then do;
     if WUMPL(YEAR)^=-3 then WUMPL(YEAR)=WUMPL(YEAR)+1;
   end;
   else if A(K)=2 then do;
     NWMISSL(YEAR)=NWMISSL(YEAR)+1;
     WUMPL(YEAR),WOLFL(YEAR)=-3;
   end;
   else if A(K)=5 | A(K)=7 then do;
     if WOLFL(YEAR)^=-3 then WOLFL(YEAR)=WOLFL(YEAR)+1;
   end;
   else if A(K)=3 then do;
     WORKL(YEAR)=WORKL(YEAR)+1;
     MISSL(YEAR)=MISSL(YEAR)+1;
     if HOURL(YEAR)^=-3 & HOUR(K)>0 then HOURL(YEAR)=HOURL(YEAR)+HOUR(K);
     else HOURL(YEAR)=-3;
     WUMPL(YEAR),WOLFL(YEAR)=-3;
   end;
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        else do;
           MISSL(YEAR)=MISSL(YEAR)+1;
           WOLFL(YEAR),WUMPL(YEAR)=-3;
        end;
     end;
SUMOUT:WBID(YEAR)=INT(YEAR)-LASTINT(YEAR)+1;
dcl PICKJOB float dec(6);
do K=1+(YEAR-1)*52 to YEAR*52;
  if A(K)>100 then do;
     WORKC(YEAR)=WORKC(YEAR)+1;
     if HOURC(YEAR)^=-3 & HOUR(K)>0 then HOURC(YEAR)=HOURC(YEAR)+HOUR(K);
     else HOURC(YEAR)=-3;
     if CAL_YEAR_JOBS(YEAR)=0 then do;
        CAL_YEAR_JOBS(YEAR)=CAL_YEAR_JOBS(YEAR)+1;
        CAL_YEAR_JOB#(YEAR,CAL_YEAR_JOBS(YEAR))=A(K);
     end;
     else do;
        do J=CAL_YEAR_JOBS(YEAR) to 1 by -1;
          if FLOOR(A(K)/100) < YEAR then
             PICKJOB=OLDHIST.OJOB(FLOOR(A(K)/100),MOD(A(K),100),43);
             else PICKJOB=PREVIOUSEMP#(FLOOR(A(K)/100),MOD(A(K),100));
          if A(K)=CAL_YEAR_JOB#(YEAR,J) | PR*100 + PICKJOB
             =CAL_YEAR_JOB#(YEAR,J) then go to NOCOUNT;
        end;
        CAL_YEAR_JOBS(YEAR)=CAL_YEAR_JOBS(YEAR)+1;
        CAL_YEAR_JOB#(YEAR,CAL_YEAR_JOBS(YEAR))=A(K);
     end;
     NOCOUNT:
  end;
  else if A(K)=4 then do;
     if WUMPC(YEAR)^=-3 then WUMPC(YEAR)=WUMPC(YEAR)+1;
  end;
  else if A(K)=2 then do;
     NWMISSC(YEAR)=NWMISSC(YEAR)+1;
     WUMPC(YEAR),WOLFC(YEAR)=-3;
  end;
  else if A(K)=5 | A(K)=7 then do;
     if WOLFC(YEAR)^=-3 then WOLFC(YEAR)=WOLFC(YEAR)+1;
     if A(K)=7 & MILWKSC(YEAR)>=0 then MILWKSC(YEAR)=MILWKSC(YEAR)+1;
  end;
  else if A(K)=3 then do;
     WORKC(YEAR)=WORKC(YEAR)+1;
     MISSC(YEAR)=MISSC(YEAR)+1;
     if HOURC(YEAR)^=-3 & HOUR(K)>0 then HOURC(YEAR)=HOURC(YEAR)+HOUR(K);
     else HOURC(YEAR)=-3;
     WUMPC(YEAR),WOLFC(YEAR)=-3;
  end;
  else do;
     MISSC(YEAR)=MISSC(YEAR)+1;
     WOLFC(YEAR),WUMPC(YEAR)=-3;
  end;
end;
if MILWKSC(YEAR)=0 then MILWKSC(YEAR)=-4;
CALOUT:
MISSL(YEAR)=FLOOR((MISSL(YEAR)/(INT(YEAR)-LASTINT(YEAR)+1)*100));
NWMISSL(YEAR)=FLOOR((NWMISSL(YEAR)/(INT(YEAR)-LASTINT(YEAR)+1)*100));
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MISSC(YEAR)=FLOOR((MISSC(YEAR)/52)*100);
NWMISSC(YEAR)=FLOOR((NWMISSC(YEAR)/52)*100);
end SUMMER;

HRP:PROC(JOBNO) RETURNS(float dec(6));
dcl (JOBNO,YJ,JJ) float dec(6);
if JOBNO>1000 then do UNTIL (JOBNO<1000);
  JOBNO=FLOOR(JOBNO/1000);
end;
YJ=FLOOR(JOBNO/100);
JJ=MOD(JOBNO,100);
if JOBNO<100 | JOBNO>1000 then RETURN(-4);else
if PAYRATE(YJ,JJ)>0 & TIMERATE(YJ,JJ)>0 then do;
  if TIMERATE(YJ,JJ)=1 then RETURN(PAYRATE(YJ,JJ));
  else if TIMERATE(YJ,JJ)=2 & HOURDAY(YJ,JJ)>0 then
    RETURN((FLOOR(PAYRATE(YJ,JJ)/HOURDAY(YJ,JJ))));
  else if TIMERATE(YJ,JJ)>=3 & TIMERATE(YJ,JJ)<7 & HOURSWEEK(YJ,JJ)>0 then do;
    if TIMERATE(YJ,JJ)=3 then RETURN((FLOOR(PAYRATE(YJ,JJ)/HOURSWEEK(YJ,JJ))));
    else if TIMERATE(YJ,JJ)=4 then
      RETURN((FLOOR(PAYRATE(YJ,JJ)/(HOURSWEEK(YJ,JJ)*2))));
    else if TIMERATE(YJ,JJ)=5 then
      RETURN((FLOOR(PAYRATE(YJ,JJ)/(HOURSWEEK(YJ,JJ)*4.3))));
    else if TIMERATE(YJ,JJ)=6 then
      RETURN((FLOOR(PAYRATE(YJ,JJ)/(HOURSWEEK(YJ,JJ)*52))));
  end;
  else RETURN(-4);
end;
else RETURN(-4);
end HRP;
```

/***1988***/

```
default range(I:N) float;
 dcl WORKTAP file record input;          /* current work history tape */
 dcl VARSNYR file record input;          /* new year data-12686 cases, inc. wt */
 dcl ADDJOBS file record input;          /* new year add jobs file */
 dcl NEWWORK file record output;         /* writes new updated work history tape */
 dcl XWHVARS file record output;         /* writes additional work history vars */
 dcl OUTDISK file stream output;         /* writes 88 key vars file on disk */
 dcl (MOD,FLOOR,CEIL,SUBSTR) BUILTIN, sysprint file;
 dcl (OLDA,ALIM,J,K,KK,JJ,N,I,NUMVAR) fixed bin(15);
 on endfile(WORKTAP) go to done;
 on error go to done;
 OLDA=523; ALIM=575; NEWYEAR=10; SURVEY_YR=88; /*note: update this line for arrays limit & year*/
 dcl 1 VARYR,                            /* vars for new workhistory */
    2 X(1:3717) float dec(6);
 dcl 1 STRUCTIN controlled,
    2 INFO(8)        float dec(6),       /*current workhistory record */
    2 ARRAY1(0:OLDA)   float dec(6),
    2 ARRAY2(0:OLDA)   float dec(6),
    2 ARRAY3(0:OLDA,4)  float dec(6),
    2 HISTYRS(NEWYEAR-1),
      5 OWT        float dec(6),
      5 OLASTINT      float dec(6),
      5 OINT       float dec(6),
      5 OINTM        float dec(6),
```

```
     5 OINTD        float dec(6),
     5 OINTY        float dec(6),
     5 OJOB(10,47)    float dec(6),
     5 OBTWNJOBS(6,5)  float dec(6),
     5 OMILIT(6)      float dec(6),
     5 OCALENDAR(17)   float dec(6),
     5 OLASTSUM(8)    float dec(6);
 dcl 1 XVARS controlled,
    2 A(0:ALIM)        fixed bin(15,0),
    2 HOUR(0:ALIM)       fixed bin(15,0),
    2 DUALJOB(0:ALIM,4)  fixed bin(15,0);
 dcl 1 VARIABLES controlled,
    2 ID          float dec(6),        /* ID number of respondent, X(1) */
    2 SAMPLE_ID     float dec(6),        /* sample type, X(1561) */
    2 BIRTHM_79     float dec(6),
    2 BIRTHD_79     float dec(6),
    2 BIRTHY_79     float dec(6),
    2 BIRTHM_81      float dec(6),
    2 BIRTHD_81      float dec(6),
    2 BIRTHY_81      float dec(6),
    2 OLDHIST(NEWYEAR-1),
     5 OWT        float dec(6),
     5 OLASTINT     float dec(6),
     5 OINT       float dec(6),
     5 OINTM        float dec(6),
     5 OINTD        float dec(6),
     5 OINTY        float dec(6),
     5 OJOB(10,47)    float dec(6),
     5 OBTWNJOBS(6,5) float dec(6),
     5 OMILIT(6)      float dec(6),
     5 OCALENDAR(17)  float dec(6),
     5 OLASTSUM(8)    float dec(6),
    2 WORK_HISTORY(NEWYEAR:NEWYEAR),
     5 WEIGHT,                 /* sampling weight  */
     5 LASTINT,                /* week number of last interview */
     5 INT,                    /* week number of current interview */
     5 INTM,                   /* month of the interview */
     5 INTD,                   /* day of the interview */
     5 INTY,                   /* year of the interview */
     5 JOB(10),                /* 10 possible jobs for each interview */
      10 START,                /* starting week of the job */
      10 STARTM,               /* starting month of the job */
      10 STARTD,               /* starting day of the job */
      10 STARTY,               /* starting year of the job */
      10 STOP,                 /* stopping week of the job */
      10 STOPM,                /* stopping month of the job */
      10 STOPD,                /* stopping day of the job */
      10 STOPY,                /* stopping year of the job */
      10 PAST,                 /* has R worked at job before last interview */
      10 CURRENT,              /* working at job at interview date */
      10 WHYLEFT,              /* reason left job if not currently working */
      10 CPSJOB,               /* is this job same as the cps job */
      10 HOURSWEEK,            /* usual hours per week at this job */
      10 OCCUPATION,           /* usual occupation at this job */
      10 INDUSTRY,             /* usual industry at this job */
      10 CLASSWORKER,          /* class of worker at this job */
```

```
      10 HOURDAY,                      /* usual hours per day worked at this job */
      10 PAYRATE,                      /* usual wage or salary at this job */
      10 TIMERATE,                     /* time unit to interpret payrate */
      10 HOURLYWAGE,                   /* usual wage converted to hourly wage */
      10 UNION,                        /* wages set by collective bargaining */
      10 GOVTJOB,                      /* is this job government-sponsored */
      10 WEEKSNOTWORKED,               /* any weeks not working at this job */
      10 PERIOD_IN_JOB(4),             /* information on each period not working */
        15 PERIODSTART,                /* starting wk number of period not working */
        15 PERIODSTOP,                 /* stopping wk number of period not working */
        15 REASON,                     /* reason not working for this period */
        15 ALL,                        /* how much time unemployed in this period */
        15 LOOK,                       /* number of weeks unemployed in this period */
      10 PREVIOUSEMP#,                 /* job number of employer from last int */
      10 PRETEN,                       /* months worked for employer before lastint */
      10 TENURE,                       /* total weeks tenure as of interview date */
      10 NUMBER,                       /* job number which is loaded into 'A' array */
    5 BETWEEN_JOBS(6),                 /* information about periods not working between jobs and military
        service */
      10 BSTART,                       /* week started this period not working */
      10 BSTOP,                        /* week stopped this period not working */
      10 BALL,                         /* how much of period not worked unemployed */
      10 BLOOK,                        /* number of weeks unemployed in this period */
      10 BREASON,                      /* reason not looking for work this period */
    5 MILITARY,                        /* information about active military service */
      10 MSTART1,                      /* starting week of first period of service */
      10 MSTART2,                      /* starting week of second period of service */
      10 MSTOP1,                       /* stopping week of first period of service */
      10 MSTOP2,                       /* stopping week of second period of service */
      10 MILWKSL,                      /* weeks active military service as of int */
      10 MILWKSC,                      /* weeks active military service in the calendar year */
    5 CALENDAR_YEAR_SUM,               /* key variables for the calendar year */
      10 WORKC,                        /* weeks worked in the calendar year */
      10 HOURC,                        /* hours worked in the calendar year */
      10 WUMPC,                        /* weeks unemployed in the calendar year */
      10 WOLFC,                        /* weeks out of labor force in calendar year */
      10 CAL_YEAR_JOBS,                /* number of jobs in the calendar year */
      10 CAL_YEAR_JOB#(10),            /* job numbers in the calendar year */
      10 MISSC,                        /* % of weeks unaccounted for in year */
      10 NWMISSC,                      /* % weeks not employed that can't be split */
    5 LASTINT_SUM,                     /* key variables calculated since last int */
      10 LASTINT_JOBS,                 /* number of jobs since last interview */
      10 WORKL,                        /* number of weeks worked since last int */
      10 HOURL,                        /* number of hours worked since last int */
      10 WUMPL,                        /* number of weeks unemployed since last int */
      10 WOLFL,                        /* weeks out of labor force since last int */
      10 WBID,                         /* number of weeks since last int */
      10 MISSL,                        /* % of weeks unaccounted for since last int */
      10 NWMISSL;                      /* % weeks not employed that can't be split */
 dcl 1 XVARS_out controlled,
   2 PUBLIC_ID PIC '99999999',
   2 HOURLY_WAGES(5) PIC '-------9',
   2 XVARS,
    3  OLD_MILVARS(2:4),
      5  MILWEEKSC PIC '-------9',
    3  WORKVARS(1:NEWYEAR),
```

```
    5 HOURCAL PIC '-------9',          5 WORKCAL PIC '-------9',
    5 WUMPCAL PIC '-------9',          5 WOLFCAL PIC '-------9',
    5 MISSCAL PIC '-------9',          5 HOURLAST PIC '-------9',
    5 WORKLAST PIC '-------9',         5 WUMPLAST PIC '-------9',
    5 WOLFLAST PIC '-------9',         5 MISSLAST PIC '-------9',
    5 CPS_HOURLYWAGE PIC '-------9',
  3 NEW_MILVARS(NEWYEAR:NEWYEAR),
    5 WEEKSBID  PIC '-------9',        5 MILWEEKSL PIC '-------9',
    5 MILWEEKSC PIC '-------9';


dcl (NA,DK,MAX,MAXYEAR,MAXDUAL,MAXINT,PR,SURVEY_YR,
   P,LEAP,FILLER,F,DUP,DUA,DIV,NEWYEAR,FLAG,#WEEKS)  float dec(6);
dcl(kount,kountadd,kountnew,kount_out,kount_XVR) fixed bin(15);
dcl CDUAL CHAR(16);
dcl FDUAL fixed (13,0);
dcl DJOB(4) PIC '999';


NA=-4; DK=-3; kount=0; kountadd=0; kountnew=0; kount_out=0; kount_XVR=0; MAX=0; MAXYEAR=100;
        MAXDUAL=0; MAXINT=0;
allocate VARIABLES,STRUCTIN, XVARS_out, XVARS;


1read1:  read file (WORKTAP) into (STRUCTIN);
  kount=kount+1;
  ID=INFO(1);
  SAMPLE_ID=INFO(2);
  BIRTHM_79=INFO(3);       BIRTHD_79=INFO(4);       BIRTHY_79=INFO(5);
  BIRTHM_81=INFO(6);       BIRTHD_81=INFO(7);       BIRTHY_81=INFO(8);
  A=0; HOUR=0; DUALJOB=0;

  do J=0 to OLDA;
   A(J)=ARRAY1(J); HOUR(J)=ARRAY2(J);
    do K = 1 to 4;
      DUALJOB(J,K) = ARRAY3(J,K);
    end;
  end;

  OLDHIST=HISTYRS, by NAME;

read file (VARSNYR) into (VARYR);
kountnew=kountnew+1;
NORCID   =   X(1);        /* case identification number        */
IS07     =  X(17);        /* military status at last interview      */
Q4_1     = X(296);        /* R serving in military at last interview    */
Q4_3A    = X(300);        /* is R currently in the active forces  (curamil) */
Q4_9A    = X(313);        /* when sworn in,did R enter active forces?(curamil) */
Q4_4MO   = X(301);        /* month R separated from armed srvc branch   */
Q4_4YR   = X(302);        /* year R separated from armed srvcs branch   */
Q4_4B    = X(304);        /* day of separation                */
Q4_7     = X(307);        /* branch R sworn into               */
Q4_8     = X(310);        /* R currently serving most recent branch    */
Q4_9MO   = X(311);        /* month R entered most recent branch       */
Q4_9YR   = X(312);        /* year R entered most recent branch        */
Q4_9B    = X(314);        /* day R entered active forces           */
Q4_10    = X(315);        /* did R serve any time on active duty?     */
Q4_10MO  = X(316);        /* mo_ entered active-not currently serving   */
Q4_10DAY = X(317);        /* day entered active-not currently serving  */
```

```
Q4_10YR  = X(318);        /* yr R entered active-not currntly serving   */
Q4_11MO  = X(320);        /* month separated from military          */
Q4_11DAY = X(321);        /* day R separated from military          */
Q4_11YR  = X(322);        /* year R separated from the military       */
Q5_25    = X(397);        /* type of industry worked for          */
Q5_26A   = X(398);        /* type of work doing last week         */
Q5_27    = X(402);        /* category of industry R worked for       */
Q5_28    = X(405);        /* number of hours per week usually work    */
Q7BEGMO1 = X(1129);       /* month began most recnt non-emplymnt per_  */
Q7BEGDY1 = X(1130);       /* day began most recent non-employmnt per_  */
Q7BEGYR1 = X(1131);       /* year began most recent non-emplymnt per_  */
Q7ENDMO1 = X(1132);       /* month ended most recent non-emplymnt per_  */
Q7ENDDY1 = X(1133);       /* day ended most recent non-emplymnt per_  */
Q7ENDYR1 = X(1134);       /* year ended most recent non-emplymnt per_  */
Q7B1     = X(1135);       /* period 1:# weeks looking for work,layoff  */
Q7_4G1   = X(1139);       /* period1 number of weeks looking,layoff    */
Q7_4I1   = X(1141);       /* period1 reason not looking          */
Q7BEGMO2 = X(1143);       /* month began 2nd recnt non-emplymnt per_   */
Q7BEGDY2 = X(1144);       /* day began 2nd recent non-employmnt per_   */
Q7BEGYR2 = X(1145);       /* year R began 2nd recnt non-emplymnt per_  */
Q7ENDMO2 = X(1146);       /* month ended 2nd recent non-emplymnt per_  */
Q7ENDDY2 = X(1147);       /* day ended 2nd recent non-emplymnt per_   */
Q7ENDYR2 = X(1148);       /* year ended 2nd recent non-emplymnt per_   */
Q7B2     = X(1149);       /* period 2:# weeks looking for work,layoff  */
Q7_4G2   = X(1153);       /* period2 number of weeks looking,layoff    */
Q7_4I2   = X(1155);       /* period2 reason not looking          */
Q7BEGMO3 = X(1157);       /* month began 3rd recent non-emplymnt per_  */
Q7BEGDY3 = X(1158);       /* day began 3rd recent non-employment per_  */
Q7BEGYR3 = X(1159);       /* year began 3rd recent non-emplymnt per_   */
Q7ENDMO3 = X(1160);       /* month ended 3rd recent non-emplymnt per_  */
Q7ENDDY3 = X(1161);       /* day ended 3rd recent non-employment per_  */
Q7ENDYR3 = X(1162);       /* year ended 3rd recent non-employmnt per_  */
Q7B3     = X(1163);       /* period 3:# weeks looking for work,layoff  */
Q7_4G3   = X(1167);       /* period3 number of weeks looking,layoff    */
Q7_4I3   = X(1169);       /* period3 reason not looking          */
Q7BEGMO4 = X(1171);       /* month began 4th recent non-emplymnt per_  */
Q7BEGDY4 = X(1172);       /* day began 4th recent non-employment per_  */
Q7BEGYR4 = X(1173);       /* year began 4th recent non-emplymnt per_   */
Q7ENDMO4 = X(1174);       /* month ended 4th recent non-emplymnt per_  */
Q7ENDDY4 = X(1175);       /* day ended 4th recent non-employment per_  */
Q7ENDYR4 = X(1176);       /* year ended 4th recent non-employmnt per_  */
Q7B4     = X(1177);       /* period 4:# weeks looking for work,layoff  */
Q7_4G4   = X(1181);       /* period4 number of weeks looking,layoff    */
Q7_4I4   = X(1183);       /* period4 reason not looking          */
IR_2MO   = X(3650);       /* month of interview              */
IR_2DAY  = X(3651);       /* day of interview               */
ESB_1F   = X(485);        /* employer # from item  9           */
ESB_2F   = X(491);        /* employer # from item 10           */
ESB_4    = X(495);        /* code for date in question 3 (esb_3)     */
ESB_5A   = X(497);        /* tot mnths wrking before date last intrvw  */
ESB_6MO  = X(498);        /* month last interview             */
ESB_6DA  = X(499);        /* day   last interview             */
ESB_6YR  = X(500);        /* year  last interview             */
ESB_7    = X(501);        /* currently working for this employer     */
ESB_7BMO = X(502);        /* month R stopped working for employer    */
ESB_7BDA = X(503);        /* day R stopped working for employer      */
```

```
ESB_7BYR  = X(504);        /* year R stopped working for employer     */
ESB_7C    = X(505);        /* reason R happened to leave this job      */
ESB_8     = X(515);        /* periods of week/more not working         */
ESBBG1MO  = X(517);        /* begin month gap within job period 1      */
ESBBG1DA  = X(518);        /* begin day gap within job period 1        */
ESBBG1YR  = X(519);        /* begin year gap within job period 1       */
ESBEN1MO  = X(520);        /* ending month gap within job period 1     */
ESBEN1DA  = X(521);        /* ending day gap within job period 1       */
ESBEN1YR  = X(522);        /* ending year gap within job period 1      */
ESB_8B1   = X(523);        /* reason not working                       */
ESB_8E1   = X(524);        /* R looking for wrk some,none,or all weeks */
ESB_8H1   = X(528);        /* # of wks looking for work or on layoff   */
ESBBG2MO  = X(532);        /* begin month gap within job period 2      */
ESBBG2DA  = X(533);        /* begin day gap within job period 2        */
ESBBG2YR  = X(534);        /* begin year gap within job period 2       */
ESBEN2MO  = X(535);        /* ending month gap within job period 2     */
ESBEN2DA  = X(536);        /* ending day gap within job period 2       */
ESBEN2YR  = X(537);        /* ending year gap within job period 2      */
ESB_8B2   = X(538);        /* reason not working                       */
ESB_8E2   = X(539);        /* R looking for wrk some,none,or all weeks */
ESB_8H2   = X(543);        /* # of wks looking or on layoff period 2   */
ESB_12    = X(577);        /* nmbr of hours/day R worked at this job   */
ESB_13    = X(578);        /* is this employer recorded in Q_24 sec 5  */
ESB_14    = X(579);        /* number of hrs/week R worked at this job  */
ESB_18    = X(585);        /* R's occupation code                      */
ESB_20    = X(586);        /* R's industry code                        */
ESB_21    = X(587);        /* R's employment category                  */
ESB22DOL  = X(590);        /* amt R was paid including tips,bonus,etc_ */
ESB_22A   = X(592);        /* pay period for R on job                  */
ESB_27A   = X(602);        /* R's wages set by collective bargaining   */
ESB_27B   = X(603);        /* is/was R a member of a union/emp assctn  */
ESC_1F    = X(614);        /* employer # from item  9                  */
ESC_2F    = X(620);        /* employer # from item 10                  */
ESC_4     = X(624);        /* code for date in question 3 (esc_3)      */
ESC_5A    = X(626);        /* tot mnths wrking before date last intrvw */
ESC_6MO   = X(627);        /* month last interview                     */
ESC_6DA   = X(628);        /* day   last interview                     */
ESC_6YR   = X(629);        /* year  last interview                     */
ESC_7     = X(630);        /* currently working for this employer      */
ESC_7BMO  = X(631);        /* month R stopped working for employer     */
ESC_7BDA  = X(632);        /* day R stopped working for employer       */
ESC_7BYR  = X(633);        /* year R stopped working for employer      */
ESC_7C    = X(634);        /* reason R happened to leave this job      */
ESC_8     = X(644);        /* periods of week/more not working         */
ESCBG1MO  = X(646);        /* begin month gap within job period 1      */
ESCBG1DA  = X(647);        /* begin day gap within job period 1        */
ESCBG1YR  = X(648);        /* begin year gap within job period 1       */
ESCEN1MO  = X(649);        /* ending month gap within job period 1     */
ESCEN1DA  = X(650);        /* ending day gap within job period 1       */
ESCEN1YR  = X(651);        /* ending year gap within job period 1      */
ESC_8B1   = X(652);        /* reason not working                       */
ESC_8E1   = X(653);        /* R looking for wrk some,none,or all weeks */
ESC_8H1   = X(657);        /* # of wks looking for work or on layoff   */
ESCBG2MO  = X(661);        /* begin month gap within job period 2      */
ESCBG2DA  = X(662);        /* begin day gap within job period 2        */
ESCBG2YR  = X(663);        /* begin year gap within job period 2       */
```

```
ESCEN2MO  = X(664);      /* ending month gap within job period 2     */
ESCEN2DA  = X(665);      /* ending day gap within job period 2      */
ESCEN2YR  = X(666);      /* ending year gap within job period 2     */
ESC_8B2   = X(667);      /* reason not working              */
ESC_8E2   = X(668);      /* R looking for wrk some,none,or all weeks  */
ESC_8H2   = X(672);      /* # of wks looking or on layoff period 2   */
ESC_12    = X(706);      /* nmbr of hours/day R worked at this job    */
ESC_13    = X(707);      /* is this employer recorded in Q_24 sec 5   */
ESC_14    = X(708);      /* number of hrs/week R worked at this job   */
ESC_18    = X(714);      /* R's occupation code             */
ESC_20    = X(715);      /* R's industry code              */
ESC_21    = X(716);      /* R's employment category            */
ESC22DOL  = X(719);      /* amt R was paid including tips,bonus,etc_  */
ESC_22A   = X(721);      /* pay period for R on job            */
ESC_27A   = X(731);      /* R's wages set by collective bargaining    */
ESC_27B   = X(732);      /* is/was R a member of a union/emp assctn   */
ESD_1F    = X(743);      /* employer # from item  9           */
ESD_2F    = X(749);      /* employer # from item 10           */
ESD_4     = X(753);      /* code for date in question 3 (esd_3)     */
ESD_5A    = X(755);      /* tot mnths wrking before date last intrvw  */
ESD_6MO   = X(756);      /* month last interview             */
ESD_6DA   = X(757);      /* day   last interview             */
ESD_6YR   = X(758);      /* year  last interview             */
ESD_7     = X(759);      /* currently working for this employer     */
ESD_7BMO  = X(760);      /* month R stopped working for employer    */
ESD_7BDA  = X(761);      /* day R stopped working for employer     */
ESD_7BYR  = X(762);      /* year R stopped working for employer     */
ESD_7C    = X(763);      /* reason R happened to leave this job     */
ESD_8     = X(773);      /* periods of week/more not working      */
ESDBG1MO  = X(775);      /* begin month gap within job period 1     */
ESDBG1DA  = X(776);      /* begin day gap within job period 1      */
ESDBG1YR  = X(777);      /* begin year gap within job period 1     */
ESDEN1MO  = X(778);      /* ending month gap within job period 1    */
ESDEN1DA  = X(779);      /* ending day gap within job period 1     */
ESDEN1YR  = X(780);      /* ending year gap within job period 1     */
ESD_8B1   = X(781);      /* reason not working              */
ESD_8E1   = X(782);      /* R looking for wrk some,none,or all weeks  */
ESD_8H1   = X(786);      /* # of wks looking for work or on layoff   */
ESDBG2MO  = X(790);      /* begin month gap within job period 2     */
ESDBG2DA  = X(791);      /* begin day gap within job period 2      */
ESDBG2YR  = X(792);      /* begin year gap within job period 2     */
ESDEN2MO  = X(793);      /* ending month gap within job period 2    */
ESDEN2DA  = X(794);      /* ending day gap within job period 2     */
ESDEN2YR  = X(795);      /* ending year gap within job period 2     */
ESD_8B2   = X(796);      /* reason not working              */
ESD_8E2   = X(797);      /* R looking for wrk some,none,or all weeks  */
ESD_8H2   = X(801);      /* # of wks looking or on layoff period 2   */
ESD_12    = X(835);      /* nmbr of hours/day R worked at this job    */
ESD_13    = X(836);      /* is this employer recorded in Q_24 sec 5   */
ESD_14    = X(837);      /* number of hrs/week R worked at this job   */
ESD_18    = X(843);      /* R's occupation code             */
ESD_20    = X(844);      /* R's industry code              */
ESD_21    = X(845);      /* R's employment category            */
ESD22DOL  = X(848);      /* amt R was paid including tips,bonus,etc_  */
ESD_22A   = X(850);      /* pay period for R on job            */
ESD_27A   = X(860);      /* R's wages set by collective bargaining    */
```

```
ESD_27B   = X(861);          /* is/was R a member of a union/emp assctn    */
ESE_1F    = X(872);          /* employer # from item  9              */
ESE_2F    = X(878);          /* employer # from item 10              */
ESE_4     = X(882);          /* code for date in question 3 (ese_3)     */
ESE_5A    = X(884);          /* tot mnths wrking before date last intrvw   */
ESE_6MO   = X(885);          /* month last interview             */
ESE_6DA   = X(886);          /* day   last interview             */
ESE_6YR   = X(887);          /* year  last interview             */
ESE_7     = X(888);          /* currently working for this employer      */
ESE_7BMO  = X(889);          /* month R stopped working for employer     */
ESE_7BDA  = X(890);          /* day R stopped working for employer       */
ESE_7BYR  = X(891);          /* year R stopped working for employer      */
ESE_7C    = X(892);          /* reason R happened to leave this job      */
ESE_8     = X(902);          /* periods of week/more not working        */
ESEBG1MO  = X(904);          /* begin month gap within job period 1      */
ESEBG1DA  = X(905);          /* begin day gap within job period 1       */
ESEBG1YR  = X(906);          /* begin year gap within job period 1      */
ESEEN1MO  = X(907);          /* ending month gap within job period 1     */
ESEEN1DA  = X(908);          /* ending day gap within job period 1      */
ESEEN1YR  = X(909);          /* ending year gap within job period 1     */
ESE_8B1   = X(910);          /* reason not working              */
ESE_8E1   = X(911);          /* R looking for wrk some,none,or all weeks   */
ESE_8H1   = X(915);          /* # of wks looking for work or on layoff    */
ESEBG2MO  = X(919);          /* begin month gap within job period 2      */
ESEBG2DA  = X(920);          /* begin day gap within job period 2       */
ESEBG2YR  = X(921);          /* begin year gap within job period 2      */
ESEEN2MO  = X(922);          /* ending month gap within job period 2     */
ESEEN2DA  = X(923);          /* ending day gap within job period 2      */
ESEEN2YR  = X(924);          /* ending year gap within job period 2     */
ESE_8B2   = X(925);          /* reason not working              */
ESE_8E2   = X(926);          /* R looking for wrk some,none,or all weeks   */
ESE_8H2   = X(930);          /* # of wks looking or on layoff period 2    */
ESE_12    = X(964);          /* nmbr of hours/day R worked at this job    */
ESE_13    = X(965);          /* is this employer recorded in Q_24 sec 5   */
ESE_14    = X(966);          /* number of hrs/week R worked at this job   */
ESE_18    = X(972);          /* R's occupation code             */
ESE_20    = X(973);          /* R's industry code              */
ESE_21    = X(974);          /* R's employment category           */
ESE22DOL  = X(977);          /* amt R was paid including tips,bonus,etc_   */
ESE_22A   = X(979);          /* pay period for R on job           */
ESE_27A   = X(989);          /* R's wages set by collective bargaining    */
ESE_27B   = X(990);          /* is/was R a member of a union/emp assctn   */
ESF_1F    = X(1001);         /* employer # from item  9           */
ESF_2F    = X(1007);         /* employer # from item 10           */
ESF_4     = X(1011);         /* code for date in question 3 (esf_3)     */
ESF_5A    = X(1013);         /* tot mnths wrking before date last intrvw   */
ESF_6MO   = X(1014);         /* month last interview             */
ESF_6DA   = X(1015);         /* day   last interview             */
ESF_6YR   = X(1016);         /* year  last interview             */
ESF_7     = X(1017);         /* currently working for this employer      */
ESF_7BMO  = X(1018);         /* month R stopped working for employer     */
ESF_7BDA  = X(1019);         /* day R stopped working for employer       */
ESF_7BYR  = X(1020);         /* year R stopped working for employer      */
ESF_7C    = X(1021);         /* reason R happened to leave this job      */
ESF_8     = X(1031);         /* periods of week/more not working        */
ESFBG1MO  = X(1033);         /* begin month gap within job period 1      */
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ESFBG1DA  = X(1034);       /* begin day gap within job period 1       */
ESFBG1YR  = X(1035);       /* begin year gap within job period 1      */
ESFEN1MO  = X(1036);       /* ending month gap within job period 1    */
ESFEN1DA  = X(1037);       /* ending day gap within job period 1      */
ESFEN1YR  = X(1038);       /* ending year gap within job period 1     */
ESF_8B1   = X(1039);       /* reason not working                      */
ESF_8E1   = X(1040);       /* R looking for wrk some,none,or all weeks */
ESF_8H1   = X(1044);       /* # of wks looking for work or on layoff   */
ESFBG2MO  = X(1048);       /* begin month gap within job period 2      */
ESFBG2DA  = X(1049);       /* begin day gap within job period 2        */
ESFBG2YR  = X(1050);       /* begin year gap within job period 2       */
ESFEN2MO  = X(1051);       /* ending month gap within job period 2     */
ESFEN2DA  = X(1052);       /* ending day gap within job period 2       */
ESFEN2YR  = X(1053);       /* ending year gap within job period 2      */
ESF_8B2   = X(1054);       /* reason not working                      */
ESF_8E2   = X(1055);       /* R looking for wrk some,none,or all weeks */
ESF_8H2   = X(1059);       /* # of wks looking or on layoff period 2   */
ESF_12    = X(1093);       /* nmbr of hours/day R worked at this job   */
ESF_13    = X(1094);       /* is this employer recorded in Q_24 sec 5  */
ESF_14    = X(1095);       /* number of hrs/week R worked at this job  */
ESF_18    = X(1101);       /* R's occupation code                     */
ESF_20    = X(1102);       /* R's industry code                       */
ESF_21    = X(1103);       /* R's employment category                 */
ESF22DOL  = X(1106);       /* amt R was paid including tips,bonus,etc_ */
ESF_22A   = X(1108);       /* pay period for R on job                 */
ESF_27A   = X(1118);       /* R's wages set by collective bargaining   */
ESF_27B   = X(1119);       /* is/was R a member of a union/emp assctn  */
PUBID     = X(3716);       /* public ID                               */
WT88      = X(3717);       /* weight for 88                           */

 if PUBID ^= INFO(1) then do;
   put file (sysprint) edit ('error IDS do NOT MATCH. PUBID=', PUBID,'  INFO(1)ID=',INFO(1))
                   (skip(1),A,F(5),skip(1),A,F(5));
   go to done;
 end;
 else do;
  XVARS_out=-4;
  PR=1;
  do J=2 to NEWYEAR-1;
    if OLDHIST(J).OWT > 0 then PR=J;
  end;
  WORK_HISTORY(NEWYEAR)=-4;
  WEIGHT(NEWYEAR)=WT88;
  if WEIGHT(NEWYEAR)=0 then WORK_HISTORY(NEWYEAR)=-5;
  else do;
    call NEWVARIABLES;      /* read addjob variables */
    call CALC(NEWYEAR);
    call SUMMER(NEWYEAR);
  end;
  do I=1 to 5;
    HOURLY_WAGES(I)=HOURLYWAGE(NEWYEAR,I);
  end;

  WORKCAL(NEWYEAR)=WORKC(NEWYEAR);
  HOURCAL(NEWYEAR)=HOURC(NEWYEAR);
  WUMPCAL(NEWYEAR)=WUMPC(NEWYEAR);
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     WOLFCAL(NEWYEAR)=WOLFC(NEWYEAR);
     MISSCAL(NEWYEAR)=MISSC(NEWYEAR);
     WORKLAST(NEWYEAR)=WORKL(NEWYEAR);
     HOURLAST(NEWYEAR)=HOURL(NEWYEAR);
     WUMPLAST(NEWYEAR)=WUMPL(NEWYEAR);
     WOLFLAST(NEWYEAR)=WOLFL(NEWYEAR);
     MISSLAST(NEWYEAR)=MISSL(NEWYEAR);
     WEEKSBID(NEWYEAR)=WBID(NEWYEAR);
     PUBLIC_ID=ID;

     do I = 1 to 5;
       if CPSJOB(NEWYEAR,I)=1 then CPS_HOURLYWAGE(NEWYEAR) = HOURLYWAGE(NEWYEAR,I);
     end;

     NEW_MILVARS.MILWEEKSC(NEWYEAR)=MILWKSC(NEWYEAR);
     NEW_MILVARS.MILWEEKSL(NEWYEAR)=MILWKSL(NEWYEAR);

     write file(XWHVARS) from (XVARS);
     kount_XVR=kount_XVR+1;
     write file(NEWWORK) from (VARIABLES);
     kount_out=kount_out+1;
     put file(OUTDISK) edit (ID,MILWKSL(NEWYEAR),MILWKSC(NEWYEAR),WORKC(NEWYEAR),
            HOURC(NEWYEAR),WUMPC(NEWYEAR),WOLFC(NEWYEAR),MISSC(NEWYEAR),
            WORKL(NEWYEAR),HOURL(NEWYEAR),WUMPL(NEWYEAR),WOLFL(NEWYEAR),
            WBID(NEWYEAR),MISSL(NEWYEAR),CPS_HOURLYWAGE(NEWYEAR),
            HOURLYWAGE(NEWYEAR,1),HOURLYWAGE(NEWYEAR,2),
            HOURLYWAGE(NEWYEAR,3),HOURLYWAGE(NEWYEAR,4),
            HOURLYWAGE(NEWYEAR,5)) (COL(1),20(F(7)));
     go to READ1;  /*** MAIN LOOP ***/
   end;

 1NEWVARIABLES:PROC;
  dcl ADDJVBLS(631) float dec(6);
  STARTM(NEWYEAR,1)=ESB_6MO;             STARTD(NEWYEAR,1)=ESB_6DA;
  STARTY(NEWYEAR,1)=ESB_6YR;             STARTM(NEWYEAR,2)=ESC_6MO;
  STARTD(NEWYEAR,2)=ESC_6DA;             STARTY(NEWYEAR,2)=ESC_6YR;
  STARTM(NEWYEAR,3)=ESD_6MO;             STARTD(NEWYEAR,3)=ESD_6DA;
  STARTY(NEWYEAR,3)=ESD_6YR;             STARTM(NEWYEAR,4)=ESE_6MO;
  STARTD(NEWYEAR,4)=ESE_6DA;             STARTY(NEWYEAR,4)=ESE_6YR;
  STARTM(NEWYEAR,5)=ESF_6MO;             STARTD(NEWYEAR,5)=ESF_6DA;
  STARTY(NEWYEAR,5)=ESF_6YR;             STOPM(NEWYEAR,1)=ESB_7BMO;
  STOPD(NEWYEAR,1)=ESB_7BDA;             STOPY(NEWYEAR,1)=ESB_7BYR;
  STOPM(NEWYEAR,2)=ESC_7BMO;             STOPD(NEWYEAR,2)=ESC_7BDA;
  STOPY(NEWYEAR,2)=ESC_7BYR;             STOPM(NEWYEAR,3)=ESD_7BMO;
  STOPD(NEWYEAR,3)=ESD_7BDA;             STOPY(NEWYEAR,3)=ESD_7BYR;
  STOPM(NEWYEAR,4)=ESE_7BMO;             STOPD(NEWYEAR,4)=ESE_7BDA;
  STOPY(NEWYEAR,4)=ESE_7BYR;             STOPM(NEWYEAR,5)=ESF_7BMO;
  STOPD(NEWYEAR,5)=ESF_7BDA;             STOPY(NEWYEAR,5)=ESF_7BYR;
  LASTINT(NEWYEAR)=
    CEIL(WEEK(OLDHIST(PR).OINTM,OLDHIST(PR).OINTD,OLDHIST(PR).OINTY)+1/7);
  INT(NEWYEAR)=FLOOR(WEEK(IR_2MO,IR_2DAY,SURVEY_YR));
  INTM(NEWYEAR)=IR_2MO;
  INTD(NEWYEAR)=IR_2DAY;
  if WEIGHT(NEWYEAR)>0 then INTY(NEWYEAR)=SURVEY_YR;
  HOURDAY(NEWYEAR,1)=ESB_12;             HOURDAY(NEWYEAR,2)=ESC_12;
  HOURDAY(NEWYEAR,3)=ESD_12;             HOURDAY(NEWYEAR,4)=ESE_12;
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HOURDAY(NEWYEAR,5)=ESF_12;
PAYRATE(NEWYEAR,1)=ESB22DOL;              PAYRATE(NEWYEAR,2)=ESC22DOL;
PAYRATE(NEWYEAR,3)=ESD22DOL;             PAYRATE(NEWYEAR,4)=ESE22DOL;
PAYRATE(NEWYEAR,5)=ESF22DOL;
TIMERATE(NEWYEAR,1)=ESB_22A;             TIMERATE(NEWYEAR,2)=ESC_22A;
TIMERATE(NEWYEAR,3)=ESD_22A;             TIMERATE(NEWYEAR,4)=ESE_22A;
TIMERATE(NEWYEAR,5)=ESF_22A;
UNION(NEWYEAR,1)=ESB_27A;                UNION(NEWYEAR,2)=ESC_27A;
UNION(NEWYEAR,3)=ESD_27A;                UNION(NEWYEAR,4)=ESE_27A;
UNION(NEWYEAR,5)=ESF_27A;
GOVTJOB(NEWYEAR,1)=-4;                   GOVTJOB(NEWYEAR,2)=-4;
GOVTJOB(NEWYEAR,3)=-4;                   GOVTJOB(NEWYEAR,4)=-4;
GOVTJOB(NEWYEAR,5)=-4;
if ESB_1F>-4 then PREVIOUSEMP#(NEWYEAR,1)=ESB_1F;
else PREVIOUSEMP#(NEWYEAR,1)=ESB_2F;
if ESC_1F>-4 then PREVIOUSEMP#(NEWYEAR,2)=ESC_1F;
else PREVIOUSEMP#(NEWYEAR,2)=ESC_2F;
if ESD_1F>-4 then PREVIOUSEMP#(NEWYEAR,3)=ESD_1F;
else PREVIOUSEMP#(NEWYEAR,3)=ESD_2F;
if ESE_1F>-4 then PREVIOUSEMP#(NEWYEAR,4)=ESE_1F;
else PREVIOUSEMP#(NEWYEAR,4)=ESE_2F;
if ESF_1F>-4 then PREVIOUSEMP#(NEWYEAR,5)=ESF_1F;
else PREVIOUSEMP#(NEWYEAR,5)=ESF_2F;
PRETEN(NEWYEAR,1)=ESB_5A;                PRETEN(NEWYEAR,2)=ESC_5A;
PRETEN(NEWYEAR,3)=ESD_5A;                PRETEN(NEWYEAR,4)=ESE_5A;
PRETEN(NEWYEAR,5)=ESF_5A;
if ESB_6MO>-4 then do;
  START(NEWYEAR,1)=WEEK(ESB_6MO,ESB_6DA,ESB_6YR);
  STOP(NEWYEAR,1)=WEEK(ESB_7BMO,ESB_7BDA,ESB_7BYR);
end;
if ESC_6MO>-4 then do;
  START(NEWYEAR,2)=WEEK(ESC_6MO,ESC_6DA,ESC_6YR);
  STOP(NEWYEAR,2)=WEEK(ESC_7BMO,ESC_7BDA,ESC_7BYR);
end;
if ESD_6MO>-4 then do;
  START(NEWYEAR,3)=WEEK(ESD_6MO,ESD_6DA,ESD_6YR);
  STOP(NEWYEAR,3)=WEEK(ESD_7BMO,ESD_7BDA,ESD_7BYR);
end;
if ESE_6MO>-4 then do;
  START(NEWYEAR,4)=WEEK(ESE_6MO,ESE_6DA,ESE_6YR);
  STOP(NEWYEAR,4)=WEEK(ESE_7BMO,ESE_7BDA,ESE_7BYR);
end;
if ESF_6MO>-4 then do;
  START(NEWYEAR,5)=WEEK(ESF_6MO,ESF_6DA,ESF_6YR);
  STOP(NEWYEAR,5)=WEEK(ESF_7BMO,ESF_7BDA,ESF_7BYR);
end;

PAST(NEWYEAR,1)=ESB_4;                   PAST(NEWYEAR,2)=ESC_4;
PAST(NEWYEAR,3)=ESD_4;                   PAST(NEWYEAR,4)=ESE_4;
PAST(NEWYEAR,5)=ESF_4;
CURRENT(NEWYEAR,1)=ESB_7;                CURRENT(NEWYEAR,2)=ESC_7;
CURRENT(NEWYEAR,3)=ESD_7;                CURRENT(NEWYEAR,4)=ESE_7;
CURRENT(NEWYEAR,5)=ESF_7;
WHYLEFT(NEWYEAR,1)=ESB_7C;               WHYLEFT(NEWYEAR,2)=ESC_7C;
WHYLEFT(NEWYEAR,3)=ESD_7C;               WHYLEFT(NEWYEAR,4)=ESE_7C;
WHYLEFT(NEWYEAR,5)=ESF_7C;
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WEEKSNOTWORKED(NEWYEAR,1)=ESB_8;          WEEKSNOTWORKED(NEWYEAR,2)=ESC_8;
WEEKSNOTWORKED(NEWYEAR,3)=ESD_8;          WEEKSNOTWORKED(NEWYEAR,4)=ESE_8;
WEEKSNOTWORKED(NEWYEAR,5)=ESF_8;
CPSJOB(NEWYEAR,1)=ESB_13;                 CPSJOB(NEWYEAR,2)=ESC_13;
CPSJOB(NEWYEAR,3)=ESD_13;                 CPSJOB(NEWYEAR,4)=ESE_13;
CPSJOB(NEWYEAR,5)=ESF_13;
if ESB_13=1 then do;
   INDUSTRY(NEWYEAR,1)=Q5_25;               OCCUPATION(NEWYEAR,1)=Q5_26A;
   CLASSWORKER(NEWYEAR,1)=Q5_27;            HOURSWEEK(NEWYEAR,1)=Q5_28;
end;
else do;
   INDUSTRY(NEWYEAR,1)=ESB_20;              OCCUPATION(NEWYEAR,1)=ESB_18;
   CLASSWORKER(NEWYEAR,1)=ESB_21;           HOURSWEEK(NEWYEAR,1)=ESB_14;
end;
if ESC_13=1 then do;
   INDUSTRY(NEWYEAR,2)=Q5_25;               OCCUPATION(NEWYEAR,2)=Q5_26A;
   CLASSWORKER(NEWYEAR,2)=Q5_27;            HOURSWEEK(NEWYEAR,2)=Q5_28;
end;
else do;
   INDUSTRY(NEWYEAR,2)=ESC_20;              OCCUPATION(NEWYEAR,2)=ESC_18;
   CLASSWORKER(NEWYEAR,2)=ESC_21;           HOURSWEEK(NEWYEAR,2)=ESC_14;
end;
if ESD_13=1 then do;
   INDUSTRY(NEWYEAR,3)=Q5_25;               OCCUPATION(NEWYEAR,3)=Q5_26A;
   CLASSWORKER(NEWYEAR,3)=Q5_27;            HOURSWEEK(NEWYEAR,3)=Q5_28;
end;
else do;
   INDUSTRY(NEWYEAR,3)=ESD_20;              OCCUPATION(NEWYEAR,3)=ESD_18;
   CLASSWORKER(NEWYEAR,3)=ESD_21;           HOURSWEEK(NEWYEAR,3)=ESD_14;
end;
if ESE_13=1 then do;
   INDUSTRY(NEWYEAR,4)=Q5_25;               OCCUPATION(NEWYEAR,4)=Q5_26A;
   CLASSWORKER(NEWYEAR,4)=Q5_27;            HOURSWEEK(NEWYEAR,4)=Q5_28;
end;
else do;
   INDUSTRY(NEWYEAR,4)=ESE_20;              OCCUPATION(NEWYEAR,4)=ESE_18;
   CLASSWORKER(NEWYEAR,4)=ESE_21;           HOURSWEEK(NEWYEAR,4)=ESE_14;
end;
if ESF_13=1 then do;
   INDUSTRY(NEWYEAR,5)=Q5_25;               OCCUPATION(NEWYEAR,5)=Q5_26A;
   CLASSWORKER(NEWYEAR,5)=Q5_27;            HOURSWEEK(NEWYEAR,5)=Q5_28;
end;
else do;
   INDUSTRY(NEWYEAR,5)=ESF_20;              OCCUPATION(NEWYEAR,5)=ESF_18;
   CLASSWORKER(NEWYEAR,5)=ESF_21;           HOURSWEEK(NEWYEAR,5)=ESF_14;
end;
if ESBBG1MO>-4 then do;
   PERIODSTART(NEWYEAR,1,1)=WEEK(ESBBG1MO,ESBBG1DA,ESBBG1YR);
   PERIODSTOP(NEWYEAR,1,1)=WEEK(ESBEN1MO,ESBEN1DA,ESBEN1YR);
end;
if ESBBG2MO>-4 then do;
   PERIODSTART(NEWYEAR,1,2)=WEEK(ESBBG2MO,ESBBG2DA,ESBBG2YR);
   PERIODSTOP(NEWYEAR,1,2)=WEEK(ESBEN2MO,ESBEN2DA,ESBEN2YR);
end;
if ESCBG1MO>-4 then do;
   PERIODSTART(NEWYEAR,2,1)=WEEK(ESCBG1MO,ESCBG1DA,ESCBG1YR);
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    PERIODSTOP(NEWYEAR,2,1)=WEEK(ESCEN1MO,ESCEN1DA,ESCEN1YR);
end;
if ESCBG2MO>-4 then do;
    PERIODSTART(NEWYEAR,2,2)=WEEK(ESCBG2MO,ESCBG2DA,ESCBG2YR);
    PERIODSTOP(NEWYEAR,2,2)=WEEK(ESCEN2MO,ESCEN2DA,ESCEN2YR);
end;
if ESDBG1MO>-4 then do;
    PERIODSTART(NEWYEAR,3,1)=WEEK(ESDBG1MO,ESDBG1DA,ESDBG1YR);
    PERIODSTOP(NEWYEAR,3,1)=WEEK(ESDEN1MO,ESDEN1DA,ESDEN1YR);
end;
if ESDBG2MO>-4 then do;
    PERIODSTART(NEWYEAR,3,2)=WEEK(ESDBG2MO,ESDBG2DA,ESDBG2YR);
    PERIODSTOP(NEWYEAR,3,2)=WEEK(ESDEN2MO,ESDEN2DA,ESDEN2YR);
end;
if ESEBG1MO>-4 then do;
    PERIODSTART(NEWYEAR,4,1)=WEEK(ESEBG1MO,ESEBG1DA,ESEBG1YR);
    PERIODSTOP(NEWYEAR,4,1)=WEEK(ESEEN1MO,ESEEN1DA,ESEEN1YR);
end;
if ESEBG2MO>-4 then do;
    PERIODSTART(NEWYEAR,4,2)=WEEK(ESEBG2MO,ESEBG2DA,ESEBG2YR);
    PERIODSTOP(NEWYEAR,4,2)=WEEK(ESEEN2MO,ESEEN2DA,ESEEN2YR);
end;
if ESFBG1MO>-4 then do;
    PERIODSTART(NEWYEAR,5,1)=WEEK(ESFBG1MO,ESFBG1DA,ESFBG1YR);
    PERIODSTOP(NEWYEAR,5,1)=WEEK(ESFEN1MO,ESFEN1DA,ESFEN1YR);
end;
if ESFBG2MO>-4 then do;
    PERIODSTART(NEWYEAR,5,2)=WEEK(ESFBG2MO,ESFBG2DA,ESFBG2YR);
    PERIODSTOP(NEWYEAR,5,2)=WEEK(ESFEN2MO,ESFEN2DA,ESFEN2YR);
end;


REASON(NEWYEAR,1,1)=ESB_8B1;              REASON(NEWYEAR,1,2)=ESB_8B2;
REASON(NEWYEAR,2,1)=ESC_8B1;              REASON(NEWYEAR,2,2)=ESC_8B2;
REASON(NEWYEAR,3,1)=ESD_8B1;              REASON(NEWYEAR,3,2)=ESD_8B2;
REASON(NEWYEAR,4,1)=ESE_8B1;              REASON(NEWYEAR,4,2)=ESE_8B2;
REASON(NEWYEAR,5,1)=ESF_8B1;              REASON(NEWYEAR,5,2)=ESF_8B2;
ALL(NEWYEAR,1,1)=ESB_8E1;                 ALL(NEWYEAR,1,2)=ESB_8E2;
ALL(NEWYEAR,2,1)=ESC_8E1;                 ALL(NEWYEAR,2,2)=ESC_8E2;
ALL(NEWYEAR,3,1)=ESD_8E1;                 ALL(NEWYEAR,3,2)=ESD_8E2;
ALL(NEWYEAR,4,1)=ESE_8E1;                 ALL(NEWYEAR,4,2)=ESE_8E2;
ALL(NEWYEAR,5,1)=ESF_8E1;                 ALL(NEWYEAR,5,2)=ESF_8E2;
LOOK(NEWYEAR,1,1)=ESB_8H1;                LOOK(NEWYEAR,1,2)=ESB_8H2;
LOOK(NEWYEAR,2,1)=ESC_8H1;                LOOK(NEWYEAR,2,2)=ESC_8H2;
LOOK(NEWYEAR,3,1)=ESD_8H1;                LOOK(NEWYEAR,3,2)=ESD_8H2;
LOOK(NEWYEAR,4,1)=ESE_8H1;                LOOK(NEWYEAR,4,2)=ESE_8H2;
LOOK(NEWYEAR,5,1)=ESF_8H1;                LOOK(NEWYEAR,5,2)=ESF_8H2;


/*******************************            EXTRA GAPS            ***********************/
if ID=1083 then do;
    PERIODSTART(NEWYEAR,1,3)=WEEK(6,26,88);    PERIODSTOP(NEWYEAR,1,3)=WEEK(8,2,88);
    REASON(NEWYEAR,1,3)= 4;             ALL(NEWYEAR,1,3)=1;       LOOK(NEWYEAR,1,3)=13;
end;
if ID=1139 then do;
    PERIODSTART(NEWYEAR,2,3)=WEEK(7,01,88);    PERIODSTOP(NEWYEAR,2,3)=WEEK(7,20,88);
    REASON(NEWYEAR,2,3)= 4;             ALL(NEWYEAR,2,3)=2;       LOOK(NEWYEAR,2,3)=14;
end;
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if ID=1476 then do;
  PERIODSTART(NEWYEAR,1,3)=WEEK(8,11,87);   PERIODSTOP(NEWYEAR,1,3)=WEEK(9,18,87);
  REASON(NEWYEAR,1,3)=13;
end;
if ID=2000 then do;
  PERIODSTART(NEWYEAR,1,3)=WEEK(7,04,87);   PERIODSTOP(NEWYEAR,1,3)=WEEK(7,18,88);
  REASON(NEWYEAR,1,3)= 4;          ALL(NEWYEAR,1,3)=2;        LOOK(NEWYEAR,1,3)=13;
end;
if ID=2541 then do;
  PERIODSTART(NEWYEAR,1,3)=WEEK(1,22,88);   PERIODSTOP(NEWYEAR,1,3)=WEEK(2,16,88);
  REASON(NEWYEAR,1,3)= 1;
end;
if ID=3883 then do;
  PERIODSTART(NEWYEAR,1,3)=WEEK(7,16,88);   PERIODSTOP(NEWYEAR,1,3)=WEEK(7,25,88);
  REASON(NEWYEAR,1,3)= 6;
end;
if ID=4527 then do;
  PERIODSTART(NEWYEAR,2,3)=WEEK(11,-3,88);   PERIODSTOP(NEWYEAR,2,3)=WEEK(11,27,88);
  ALL(NEWYEAR,2,3)=3;
end;
if ID=4929 then do;
  PERIODSTART(NEWYEAR,1,3)=WEEK(1,25,88);   PERIODSTOP(NEWYEAR,1,3)=WEEK(1,31,88);
  REASON(NEWYEAR,1,3)= 2;
end;
if ID=5295 then do;
  PERIODSTART(NEWYEAR,1,3)=WEEK(6,08,88);   PERIODSTOP(NEWYEAR,1,3)=WEEK(8,19,88);
  REASON(NEWYEAR,1,3)=12;
end;
if ID=5602 then do;
  PERIODSTART(NEWYEAR,2,3)=WEEK(4,09,88);   PERIODSTOP(NEWYEAR,2,3)=WEEK(5,21,88);
  REASON(NEWYEAR,2,3)=13;
end;
if ID=5839 then do;
  PERIODSTART(NEWYEAR,1,3)=WEEK(4,04,88);   PERIODSTOP(NEWYEAR,1,3)=WEEK(4,15,88);
  REASON(NEWYEAR,1,3)= 2;
end;
if ID=6577 then do;
  PERIODSTART(NEWYEAR,1,3)=WEEK(4,17,88);   PERIODSTOP(NEWYEAR,1,3)=WEEK(4,24,88);
  REASON(NEWYEAR,1,3)=10;
end;
if ID=6694 then do;
  PERIODSTART(NEWYEAR,1,3)=WEEK(1,02,88);   PERIODSTOP(NEWYEAR,1,3)=WEEK(12,06,88);
  REASON(NEWYEAR,1,3)= 2;          ALL(NEWYEAR,1,3)=2;        LOOK(NEWYEAR,1,3)=10;
end;
if ID=7205 then do;
  PERIODSTART(NEWYEAR,1,3)=WEEK(10,30,87);   PERIODSTOP(NEWYEAR,1,3)=WEEK(2,24,88);
  REASON(NEWYEAR,1,3)= 4;          ALL(NEWYEAR,1,3)=1;        LOOK(NEWYEAR,1,3)=1 ;
end;
if ID=8329 then do;
  PERIODSTART(NEWYEAR,2,3)=WEEK(10,18,87);   PERIODSTOP(NEWYEAR,2,3)=WEEK(10,30,87);
  REASON(NEWYEAR,2,3)= 4;          ALL(NEWYEAR,2,3)=1;        LOOK(NEWYEAR,2,3)=13;
end;
if ID=9789 then do;
  PERIODSTART(NEWYEAR,2,3)=WEEK(9,20,87);   PERIODSTOP(NEWYEAR,2,3)=WEEK(9,30,87);
  REASON(NEWYEAR,2,3)=10;
end;
```

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if ID=10280 then do;
  PERIODSTART(NEWYEAR,2,3)=WEEK(8,1,88);    PERIODSTOP(NEWYEAR,2,3)=WEEK(8,8,88);
  REASON(NEWYEAR,2,3)= 6;
end;
if ID=12520 then do;
  PERIODSTART(NEWYEAR,1,3)=WEEK(2,14,88);   PERIODSTOP(NEWYEAR,1,3)=WEEK(2,22,88);
  REASON(NEWYEAR,1,3)= 4;              ALL(NEWYEAR,1,3)=1;       LOOK(NEWYEAR,1,3)=10;
end;
if ID =11569 then do;
  BSTART(88,5) = WEEK(3,11,86);         BSTOP(88,5)  = WEEK(8,24,86);         BALL(88,5)  = 3;
end;
if Q7BEGMO1>-4 then do;
  BSTART(NEWYEAR,1)=WEEK(Q7BEGMO1,Q7BEGDY1,Q7BEGYR1);
  BSTOP(NEWYEAR,1)=WEEK(Q7ENDMO1,Q7ENDDY1,Q7ENDYR1);
end;
if Q7BEGMO2>-4 then do;
  BSTART(NEWYEAR,2)=WEEK(Q7BEGMO2,Q7BEGDY2,Q7BEGYR2);
  BSTOP(NEWYEAR,2)=WEEK(Q7ENDMO2,Q7ENDDY2,Q7ENDYR2);
end;
if Q7BEGMO3>-4 then do;
  BSTART(NEWYEAR,3)=WEEK(Q7BEGMO3,Q7BEGDY3,Q7BEGYR3);
  BSTOP(NEWYEAR,3)=WEEK(Q7ENDMO3,Q7ENDDY3,Q7ENDYR3);
end;
if Q7BEGMO4>-4 then do;
  BSTART(NEWYEAR,4)=WEEK(Q7BEGMO4,Q7BEGDY4,Q7BEGYR4);
  BSTOP(NEWYEAR,4)=WEEK(Q7ENDMO4,Q7ENDDY4,Q7ENDYR4);
end;
BALL(NEWYEAR,1)=Q7B1;                        BALL(NEWYEAR,2)=Q7B2;
BALL(NEWYEAR,3)=Q7B3;                        BALL(NEWYEAR,4)=Q7B4;
BLOOK(NEWYEAR,1)=Q7_4G1;                     BLOOK(NEWYEAR,2)=Q7_4G2;
BLOOK(NEWYEAR,3)=Q7_4G3;                     BLOOK(NEWYEAR,4)=Q7_4G4;
BREASON(NEWYEAR,1)=Q7_4I1;                   BREASON(NEWYEAR,2)=Q7_4I2;
BREASON(NEWYEAR,3)=Q7_4I3;                   BREASON(NEWYEAR,4)=Q7_4I4;


CURAMIL = 0;
if (Q4_3A = 1) | (Q4_9A = 1) then CURAMIL = 1;
if Q4_1=1 & IS07>=1 & IS07<=4 then do;
  if CURAMIL=1 then MSTOP1(NEWYEAR)=INT(NEWYEAR);
  else MSTOP1(NEWYEAR)=WEEK(Q4_4MO,Q4_4B,Q4_4YR);
  MSTART1(NEWYEAR)=LASTINT(NEWYEAR);
  if MSTART1(NEWYEAR)>=0 & MSTOP1(NEWYEAR)>=MSTART1(NEWYEAR) then
    call FILL(MSTART1(NEWYEAR),MSTOP1(NEWYEAR),7,0);
end;
if Q4_7>=1 & Q4_7<=4 then do;
  if Q4_8=1 then do;
    MSTART2(NEWYEAR)=WEEK(Q4_9MO,Q4_9B,Q4_9YR);
    MSTOP2(NEWYEAR)=INT(NEWYEAR);
  end;
  else if Q4_10=1 then do;
    MSTART2(NEWYEAR)=WEEK(Q4_10MO,Q4_10DAY,Q4_10YR);
    MSTOP2(NEWYEAR)=WEEK(Q4_11MO,Q4_11DAY,Q4_11YR);
  end;
  if MSTART2(NEWYEAR)>=0 & MSTOP2(NEWYEAR)>=MSTART2(NEWYEAR) then
    call FILL(MSTART2(NEWYEAR),MSTOP2(NEWYEAR),7,0);
end;
if MSTART1(NEWYEAR)>-4 | MSTART2(NEWYEAR)>-4 | MSTOP1(NEWYEAR)>-4
```

```
    | MSTOP2(NEWYEAR)>-4 then do;
    if MSTART1(NEWYEAR)=-3 | MSTART2(NEWYEAR)=-3 | MSTOP1(NEWYEAR)=-3
      | MSTOP2(NEWYEAR)=-3 then do;
      MILWKSL(NEWYEAR)=-3;
      MILWKSC(NEWYEAR)=-3;
    end;
    else do;
      MILWKSL(NEWYEAR)=0;
      MILWKSC(NEWYEAR)=0;
      if MSTART1(NEWYEAR)>=0 then MILWKSL(NEWYEAR)=
        MSTOP1(NEWYEAR) - MSTART1(NEWYEAR) + 1;
      if MSTART2(NEWYEAR)>=0 then MILWKSL(NEWYEAR)=
        MILWKSL(NEWYEAR) + MSTOP2(NEWYEAR) - MSTART2(NEWYEAR) + 1;
      MILWKSL(NEWYEAR)=FLOOR(MILWKSL(NEWYEAR)+.5);
    end;
  end;
end;

 /************    ADDITIONAL JOBS / EMPLOYMENT SUPPLEMENT    ************/
NUMVAR=126;  /* number of variables in the supplement */

if ID=709    | ID=1012  | ID=1044  | ID=1106  | ID=1695  | ID=2052  | ID=2057  | ID=2802   |
  ID=3218  | ID=3236  | ID=3771  | ID=3788  | ID=3920  | ID=3994  | ID=4706  | ID=4795   |
  ID=5173  | ID=6023  | ID=6149  | ID=6646  | ID=7843  | ID=7879  | ID=7935  | ID=8306   |
  ID=8307  | ID=8436  | ID=8690  | ID=8817  | ID=8945  | ID=9187  | ID=9798  | ID=11441 |
  ID=11834  | ID=11871  | ID=12340  | ID=12364 | ID=12485 then do;
  read file(ADDJOBS) into (ADDJVBLS);
  kountadd=kountadd+1;
  STARTM(NEWYEAR,6)=ADDJVBLS(20);
  STARTD(NEWYEAR,6)=ADDJVBLS(21);
  STARTY(NEWYEAR,6)=ADDJVBLS(22);
  STARTM(NEWYEAR,7)=ADDJVBLS(NUMVAR+20);
  STARTD(NEWYEAR,7)=ADDJVBLS(NUMVAR+21);
  STARTY(NEWYEAR,7)=ADDJVBLS(NUMVAR+22);
  STARTM(NEWYEAR,8)=ADDJVBLS((2*NUMVAR)+20);
  STARTD(NEWYEAR,8)=ADDJVBLS((2*NUMVAR)+21);
  STARTY(NEWYEAR,8)=ADDJVBLS((2*NUMVAR)+22);
  STARTM(NEWYEAR,9)=ADDJVBLS((3*NUMVAR)+20);
  STARTD(NEWYEAR,9)=ADDJVBLS((3*NUMVAR)+21);
  STARTY(NEWYEAR,9)=ADDJVBLS((3*NUMVAR)+22);
  STARTM(NEWYEAR,10)=ADDJVBLS((4*NUMVAR)+20);
  STARTD(NEWYEAR,10)=ADDJVBLS((4*NUMVAR)+21);
  STARTY(NEWYEAR,10)=ADDJVBLS((4*NUMVAR)+22);
  STOPM(NEWYEAR,6)=ADDJVBLS(24);
  STOPD(NEWYEAR,6)=ADDJVBLS(25);
  STOPY(NEWYEAR,6)=ADDJVBLS(26);
  STOPM(NEWYEAR,7)=ADDJVBLS(NUMVAR+24);
  STOPD(NEWYEAR,7)=ADDJVBLS(NUMVAR+25);
  STOPY(NEWYEAR,7)=ADDJVBLS(NUMVAR+26);
  STOPM(NEWYEAR,8)=ADDJVBLS((2*NUMVAR)+24);
  STOPD(NEWYEAR,8)=ADDJVBLS((2*NUMVAR)+25);
  STOPY(NEWYEAR,8)=ADDJVBLS((2*NUMVAR)+26);
  STOPM(NEWYEAR,9)=ADDJVBLS((3*NUMVAR)+24);
  STOPD(NEWYEAR,9)=ADDJVBLS((3*NUMVAR)+25);
  STOPY(NEWYEAR,9)=ADDJVBLS((3*NUMVAR)+26);
  STOPM(NEWYEAR,10)=ADDJVBLS((4*NUMVAR)+24);
  STOPD(NEWYEAR,10)=ADDJVBLS((4*NUMVAR)+25);
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STOPY(NEWYEAR,10)=ADDJVBLS((4*NUMVAR)+26);
if ADDJVBLS(7)>-4 then PREVIOUSEMP#(NEWYEAR,6)=ADDJVBLS(7);
else PREVIOUSEMP#(NEWYEAR,6)=ADDJVBLS(13);
if ADDJVBLS(133)>-4 then PREVIOUSEMP#(NEWYEAR,7)=ADDJVBLS(133);
else PREVIOUSEMP#(NEWYEAR,7)=ADDJVBLS(139);
if ADDJVBLS(259)>-4 then PREVIOUSEMP#(NEWYEAR,8)=ADDJVBLS(259);
else PREVIOUSEMP#(NEWYEAR,8)=ADDJVBLS(265);
if ADDJVBLS(385)>-4 then PREVIOUSEMP#(NEWYEAR,9)=ADDJVBLS(385);
else PREVIOUSEMP#(NEWYEAR,9)=ADDJVBLS(391);
if ADDJVBLS(511)>-4 then PREVIOUSEMP#(NEWYEAR,10)=ADDJVBLS(511);
else PREVIOUSEMP#(NEWYEAR,10)=ADDJVBLS(517);
PRETEN(NEWYEAR,6)=ADDJVBLS(19);
PRETEN(NEWYEAR,7)=ADDJVBLS(NUMVAR+19);
PRETEN(NEWYEAR,8)=ADDJVBLS((2*NUMVAR)+19);
PRETEN(NEWYEAR,9)=ADDJVBLS((3*NUMVAR)+19);
PRETEN(NEWYEAR,10)=ADDJVBLS((4*NUMVAR)+19);
OCCUPATION(NEWYEAR,6)=ADDJVBLS(107);
OCCUPATION(NEWYEAR,7)=ADDJVBLS(NUMVAR+107);
OCCUPATION(NEWYEAR,8)=ADDJVBLS((2*NUMVAR)+107);
OCCUPATION(NEWYEAR,9)=ADDJVBLS((3*NUMVAR)+107);
OCCUPATION(NEWYEAR,10)=ADDJVBLS((4*NUMVAR)+107);
INDUSTRY(NEWYEAR,6)=ADDJVBLS(108);
INDUSTRY(NEWYEAR,7)=ADDJVBLS(NUMVAR+108);
INDUSTRY(NEWYEAR,8)=ADDJVBLS((2*NUMVAR)+108);
INDUSTRY(NEWYEAR,9)=ADDJVBLS((3*NUMVAR)+108);
INDUSTRY(NEWYEAR,10)=ADDJVBLS((4*NUMVAR)+108);
CLASSWORKER(NEWYEAR,6)=ADDJVBLS(109);
CLASSWORKER(NEWYEAR,7)=ADDJVBLS(NUMVAR+109);
CLASSWORKER(NEWYEAR,8)=ADDJVBLS((2*NUMVAR)+109);
CLASSWORKER(NEWYEAR,9)=ADDJVBLS((3*NUMVAR)+109);
CLASSWORKER(NEWYEAR,10)=ADDJVBLS((4*NUMVAR)+109);
HOURDAY(NEWYEAR,6)=ADDJVBLS(99);
HOURDAY(NEWYEAR,7)=ADDJVBLS(NUMVAR+99);
HOURDAY(NEWYEAR,8)=ADDJVBLS((2*NUMVAR)+99);
HOURDAY(NEWYEAR,9)=ADDJVBLS((3*NUMVAR)+99);
HOURDAY(NEWYEAR,10)=ADDJVBLS((4*NUMVAR)+99);
PAYRATE(NEWYEAR,6)=ADDJVBLS(112);
PAYRATE(NEWYEAR,7)=ADDJVBLS(NUMVAR+112);
PAYRATE(NEWYEAR,8)=ADDJVBLS((2*NUMVAR)+112);
PAYRATE(NEWYEAR,9)=ADDJVBLS((3*NUMVAR)+112);
PAYRATE(NEWYEAR,10)=ADDJVBLS((4*NUMVAR)+112);
TIMERATE(NEWYEAR,6)=ADDJVBLS(113);
TIMERATE(NEWYEAR,7)=ADDJVBLS(NUMVAR+113);
TIMERATE(NEWYEAR,8)=ADDJVBLS((2*NUMVAR)+113);
TIMERATE(NEWYEAR,9)=ADDJVBLS((3*NUMVAR)+113);
TIMERATE(NEWYEAR,10)=ADDJVBLS((4*NUMVAR)+113);
UNION(NEWYEAR,6)=ADDJVBLS(121);
UNION(NEWYEAR,7)=ADDJVBLS(NUMVAR+121);
UNION(NEWYEAR,8)=ADDJVBLS((2*NUMVAR)+121);
UNION(NEWYEAR,9)=ADDJVBLS((3*NUMVAR)+121);
UNION(NEWYEAR,10)=ADDJVBLS((4*NUMVAR)+121);
GOVTJOB(NEWYEAR,6)=-4;
GOVTJOB(NEWYEAR,7)=-4;
GOVTJOB(NEWYEAR,8)=-4;
GOVTJOB(NEWYEAR,9)=-4;
GOVTJOB(NEWYEAR,10)=-4;
```

```
   N=20;
   do J=6 to 10;
     if ADDJVBLS(N)>-4 then do;
       START(NEWYEAR,J)=WEEK(ADDJVBLS(N),ADDJVBLS(N+1),ADDJVBLS(N+2));
       STOP(NEWYEAR,J)=WEEK(ADDJVBLS(N+4),ADDJVBLS(N+5),ADDJVBLS(N+6));
     end;
     N=N+126;
   end;
   N=23;
   do J=6 to 10;
     CURRENT(NEWYEAR,J)=ADDJVBLS(N);
     if ADDJVBLS(N+81)=-4 then
       HOURSWEEK(NEWYEAR,J)=ADDJVBLS(N+78);
     else if ADDJVBLS(N+78)>-4 then HOURSWEEK(NEWYEAR,J)=ADDJVBLS(N+78);
     WEEKSNOTWORKED(NEWYEAR,J)=ADDJVBLS(N+14);
     PAST(NEWYEAR,J)=ADDJVBLS(N-6);
     P=N;
     do K=1 to 2;
       if ADDJVBLS(P+15)>-4 then do;
         PERIODSTART(NEWYEAR,J,K)=
           WEEK(ADDJVBLS(P+16),ADDJVBLS(P+17),ADDJVBLS(P+18));
         PERIODSTOP(NEWYEAR,J,K)=
           WEEK(ADDJVBLS(P+19),ADDJVBLS(P+20),ADDJVBLS(P+21));
       end;
       REASON(NEWYEAR,J,K)=ADDJVBLS(P+22);
       ALL(NEWYEAR,J,K)=ADDJVBLS(P+23);
       LOOK(NEWYEAR,J,K)=ADDJVBLS(P+27);
       P=P+15;
     end;
     N=N+126;
   end;
 end;
 end NEWVARIABLES;

1WEEK:PROC(MONTH,DAY,YEAR) RETURNS(float dec);
/******* The purpose of the week function is to take a date passed to it and to convert that date into a week
          number relative to 1-1-78. Note that dates prior to 1-1-78 are assigned to week 0, missing days are
          assigned to day 15 of the month and a '-3' is returned if the date is not valid. **************/
dcl (MONTH,DAY,YEAR) float dec(6);
dcl MON(12) float dec(6) INIT(0,31,59,90,120,151,181,212,243,273,304,334);
if YEAR>0 & YEAR<MAXYEAR then MAXYEAR=YEAR;
if YEAR>0 & YEAR<78 then RETURN(0);
else if MONTH>0 & YEAR>0 & DAY<0 then DAY=15;
if MONTH>0 & MONTH<=12 & DAY>0 & DAY<32 & YEAR>=78 & YEAR<97 then do;
  LEAP=0;
  if YEAR>=80 then do;
    LEAP=CEIL((YEAR-80)/4);
    if MOD(YEAR,4)=0 & MONTH>2 then LEAP=LEAP+1;
  end;
  RETURN(((YEAR-78) *365 + MON(MONTH) + DAY + LEAP)/7);
end;
else RETURN(-3);
end WEEK;

1CALC: PROC(YR);
dcl YR float dec(6);
```

```
dcl CODE float dec(6);
CODE=-4;
LASTINT_JOBS(YR)=0;
do J=1 to 10;
  FLAG=0;
  if START(YR,J)>-4 | STOP(YR,J)>-4 then do;
    LASTINT_JOBS(YR)=LASTINT_JOBS(YR)+1;
    NUMBER(YR,J)=YR*100+J;
    HOURLYWAGE(YR,J)=HRP(J);
    if PAST(YR,J)=1 | PAST(YR,J)=2 then START(YR,J)=LASTINT(YR);
    if CURRENT(YR,J)=1 then STOP(YR,J)=INT(YR);
    else if STOP(YR,J)>0 & STOP(YR,J)>INT(YR) then STOP(YR,J)=INT(YR);
    if START(YR,J)>=0 & STOP(YR,J)>=START(YR,J) then do;
      START(YR,J)=CEIL(START(YR,J));
      STOP(YR,J)=CEIL(STOP(YR,J));
      TENURE(YR,J)=STOP(YR,J) - START(YR,J) + 1;
      call FILL(START(YR,J),STOP(YR,J),NUMBER(YR,J),HOURSWEEK(YR,J));
    end;
    else TENURE(YR,J)=-3;
    FLAG=1;
    if WEEKSNOTWORKED(YR,J)^=0 & WEEKSNOTWORKED(YR,J)^=-4 then do K=1 to 4;
      if PERIODSTOP(YR,J,K)>=0 & PERIODSTOP(YR,J,K)>INT(YR) then
        PERIODSTOP(YR,J,K)=INT(YR);
      if PERIODSTART(YR,J,K)>=0 & PERIODSTOP(YR,J,K)>=PERIODSTART(YR,J,K)
        then do;
        if REASON(YR,J,K)=2 then CODE=4;
        else if REASON(YR,J,K)>0 then do;
          if REASON(YR,J,K)^=3 & REASON(YR,J,K)^=4 then CODE=5;
          else do;
            if ALL(YR,J,K)=1 then CODE=5;
            else if ALL(YR,J,K)=3 then CODE=4;
            else if ALL(YR,J,K)=2 & LOOK(YR,J,K)>=0 then do;
              CODE=9;
              #WEEKS=LOOK(YR,J,K);
            end;
            else CODE=2;
          end;
        end;
        else CODE=2;
        call FILL(PERIODSTART(YR,J,K),PERIODSTOP(YR,J,K),CODE,HOURSWEEK(YR,J));
      end;
      else if K=1 then call FILL(START(YR,J),STOP(YR,J),3,HOURSWEEK(YR,J));
    end;
    if PREVIOUSEMP#(YR,J)>0 then do;
     if TENURE(YR,J)>0 & OLDHIST.OJOB(PR,PREVIOUSEMP#(YR,J),46)>0 then
     TENURE(YR,J)=TENURE(YR,J)+OLDHIST.OJOB(PR,PREVIOUSEMP#(YR,J),46);
      else TENURE(YR,J)=-3;
    end;
    if PRETEN(YR,J)>-4 then do;
      if TENURE(YR,J)>=0 & PRETEN(YR,J)>=0 then TENURE(YR,J)=TENURE(YR,J) + 4.3 *
          PRETEN(YR,J);
      else TENURE(YR,J)=-3;
     end;
    if TENURE(YR,J)<0 then TENURE(YR,J)=-3;
    else TENURE(YR,J)=FLOOR(TENURE(YR,J) + .5);
  end;
```

```
end;
FLAG=0;
do K=1 to 6;
   if BSTOP(YR,K)>=0 & BSTOP(YR,K)>INT(YR) then BSTOP(YR,K)=INT(YR);
   if BSTART(YR,K)>=0 & BSTOP(YR,K)>=BSTART(YR,K) then do;
      if BALL(YR,K)=1 then CODE=5;
      else if BALL(YR,K)=3 then CODE=4;
      else if BALL(YR,K)=2 & BLOOK(YR,K)>=0 then do;
         CODE=9;
         #WEEKS=BLOOK(YR,K);
      end;
      else CODE=2;
      call FILL(BSTART(YR,K),BSTOP(YR,K),CODE,0);
   end;
end;
PR=YR;
end CALC;

1FILL:PROC(WEEK_BEGAN,WEEK_ENDED,COD,HOURS);
dcl (WEEK_BEGAN,WEEK_ENDED,COD,HOURS) float dec;
if HOURS<0 then HOURS=-3;
else if HOURS=99 | HOURS=98 | HOURS=97 then HOURS=-3;
FILLER=0;WEEK_BEGAN=CEIL(WEEK_BEGAN);WEEK_ENDED=CEIL(WEEK_ENDED);
if WEEK_BEGAN>=0 & WEEK_ENDED>=WEEK_BEGAN then do F=WEEK_BEGAN to WEEK_ENDED;
   JJ = 1;
   if A(F)>100 & COD>100 & PR*100+PREVIOUSEMP#((FLOOR(COD/100)),(MOD(COD,100))) ^=A(F) then
            do;
      DUP=0;
      if DUALJOB(F,1)>0 then do;
         KK = 1;
         do WHILE ((KK <= 4) & (DUALJOB(F,KK) ^= 0));
            if PR*100+PREVIOUSEMP#((FLOOR(COD/100)),(MOD(COD,100)))=
               DUALJOB(F,KK) then DUP=1;
            KK = KK + 1;
         end;
      end;
      if DUP=0 then do;
         if HOURS>0 & HOUR(F)>=0 then do;
            HOUR(F)=HOUR(F) + HOURS;
            if HOUR(F)>96 then HOUR(F)=96;
         end;
         else if HOUR(F)<96 then HOUR(F)=-3;
         if (MOD(COD,100)) = 0 | (MOD(COD,100)) > 10 then do;
            put file(sysprint)
               edit('*** (error) IN CREATING DUALJOB> ID = ',ID, '...COD = ',COD)
                  (skip(1),A,F(7,0),A,F(7,0));
         end;
         else do;
            KK = 1;
            do WHILE (KK <= 4);
               if DUALJOB(F,KK) = 0 then do;
                  if KK > 1 then do;
                     DUALJOB(F,KK) = DUALJOB(F,KK-1);
                     DUALJOB(F,KK-1) = COD;
                  end;
                  else DUALJOB(F,1) = COD;
```

```
        KK = 9;
      end;
      KK = KK + 1;
    end;
   end;
  end;
 end;
 else if DUALJOB(F,1)=0 & (FLAG=1 | A(F)<100) then do;
  if COD=9 then do;
   if HOURS>0 & HOUR(F)>0 & (HOUR(F) - HOURS>=0) then HOUR(F)=HOUR(F) - HOURS;
   else if HOURS>0 then HOUR(F)=0;
   else HOUR(F)=HOURS;
   if FILLER<#WEEKS & F>(WEEK_ENDED-WEEK_BEGAN-#WEEKS)/2 + WEEK_BEGAN
     then do;
     A(F)=4;
     FILLER=FILLER+1;
    end;
   else if A(F)^=4 then A(F)=5;
  end;
  else if (A(F)^=4 | COD>100) then do;
   A(F)=COD;
   if COD>100 then HOUR(F)=HOURS;
   else if HOURS>0 & COD^=3 then HOUR(F)=0;
   else HOUR(F)=HOURS;
  end;
 end;
 else if DUALJOB(F,1)>0  & FLAG=1 & (COD=2 | COD=4 | COD=5 | COD=9) then do;
  KK = 1;
  do WHILE (KK <= 4);
   if DUALJOB(F,KK) = 0 then do;
     if KK > 1 then DUALJOB(F,KK-1) = 0;
     KK = 9;
   end;
   KK = KK + 1;
   if KK = 5 then DUALJOB(F,4) = 0;
  end;
  if HOURS>0 & HOUR(F)>0 & (HOUR(F) - HOURS >=0) then HOUR(F)=HOUR(F) - HOURS;
  else if HOURS>0 then HOUR(F)=0;
  else HOUR(F)=HOURS;
 end;
end;
end FILL;

1SUMMER:PROC(YEAR);
dcl YEAR float dec;
CALENDAR_YEAR_SUM(YEAR)=0;
WORKL(YEAR),HOURL(YEAR),WOLFL(YEAR),WUMPL(YEAR),MISSL(YEAR), NWMISSL(YEAR)=0;
do K=LASTINT(YEAR) to INT(YEAR);
  if A(K)>100 then do;
   WORKL(YEAR)=WORKL(YEAR)+1;
   if HOURL(YEAR)^=-3 & HOUR(K)>0 then HOURL(YEAR)=HOURL(YEAR)+HOUR(K);
   else HOURL(YEAR)=-3;
  end;
  else if A(K)=4 then do;
   if WUMPL(YEAR)^=-3 then WUMPL(YEAR)=WUMPL(YEAR)+1;
  end;
```

```
      else if A(K)=2 then do;
        NWMISSL(YEAR)=NWMISSL(YEAR)+1;
        WUMPL(YEAR),WOLFL(YEAR)=-3;
      end;
      else if A(K)=5 | A(K)=7 then do;
        if WOLFL(YEAR)^=-3 then WOLFL(YEAR)=WOLFL(YEAR)+1;
      end;
      else if A(K)=3 then do;
        WORKL(YEAR)=WORKL(YEAR)+1;
        MISSL(YEAR)=MISSL(YEAR)+1;
        if HOURL(YEAR)^=-3 & HOUR(K)>0 then HOURL(YEAR)=HOURL(YEAR)+HOUR(K);
        else HOURL(YEAR)=-3;
        WUMPL(YEAR),WOLFL(YEAR)=-3;
      end;
      else do;
        MISSL(YEAR)=MISSL(YEAR)+1;
        WOLFL(YEAR),WUMPL(YEAR)=-3;
      end;
    end;
SUMOUT:WBID(YEAR)=INT(YEAR)-LASTINT(YEAR)+1;
dcl PICKJOB float dec(6);
do K=1+(YEAR-1)*52 to YEAR*52;
    if A(K)>100 then do;
      WORKC(YEAR)=WORKC(YEAR)+1;
      if HOURC(YEAR)^=-3 & HOUR(K)>0 then HOURC(YEAR)=HOURC(YEAR)+HOUR(K);
      else HOURC(YEAR)=-3;
      if CAL_YEAR_JOBS(YEAR)=0 then do;
        CAL_YEAR_JOBS(YEAR)=CAL_YEAR_JOBS(YEAR)+1;
        CAL_YEAR_JOB#(YEAR,CAL_YEAR_JOBS(YEAR))=A(K);
      end;
      else do;
        do J=CAL_YEAR_JOBS(YEAR) to 1 by -1;
          if FLOOR(A(K)/100) < YEAR then
            PICKJOB=OLDHIST.OJOB(FLOOR(A(K)/100),MOD(A(K),100),43);
            else PICKJOB=PREVIOUSEMP#(FLOOR(A(K)/100),MOD(A(K),100));
          if A(K)=CAL_YEAR_JOB#(YEAR,J) | PR*100 + PICKJOB
            =CAL_YEAR_JOB#(YEAR,J) then go to NOCOUNT;
        end;
        CAL_YEAR_JOBS(YEAR)=CAL_YEAR_JOBS(YEAR)+1;
        CAL_YEAR_JOB#(YEAR,CAL_YEAR_JOBS(YEAR))=A(K);
      end;
      NOCOUNT:
    end;
    else if A(K)=4 then do;
      if WUMPC(YEAR)^=-3 then WUMPC(YEAR)=WUMPC(YEAR)+1;
    end;
    else if A(K)=2 then do;
      NWMISSC(YEAR)=NWMISSC(YEAR)+1;
      WUMPC(YEAR),WOLFC(YEAR)=-3;
    end;
    else if A(K)=5 | A(K)=7 then do;
      if WOLFC(YEAR)^=-3 then WOLFC(YEAR)=WOLFC(YEAR)+1;
      if A(K)=7 & MILWKSC(YEAR)>=0 then MILWKSC(YEAR)=MILWKSC(YEAR)+1;
    end;
    else if A(K)=3 then do;
      WORKC(YEAR)=WORKC(YEAR)+1;
```

```
    MISSC(YEAR)=MISSC(YEAR)+1;
    if HOURC(YEAR)^=-3 & HOUR(K)>0 then HOURC(YEAR)=HOURC(YEAR)+HOUR(K);
    else HOURC(YEAR)=-3;
    WUMPC(YEAR),WOLFC(YEAR)=-3;
  end;
  else do;
    MISSC(YEAR)=MISSC(YEAR)+1;
    WOLFC(YEAR),WUMPC(YEAR)=-3;
  end;
end;
if MILWKSC(YEAR)=0 then MILWKSC(YEAR)=-4;
CALOUT:
MISSL(YEAR)=FLOOR((MISSL(YEAR)/(INT(YEAR)-LASTINT(YEAR)+1)*100));
NWMISSL(YEAR)=FLOOR((NWMISSL(YEAR)/(INT(YEAR)-LASTINT(YEAR)+1)*100));
MISSC(YEAR)=FLOOR((MISSC(YEAR)/52)*100);
NWMISSC(YEAR)=FLOOR((NWMISSC(YEAR)/52)*100);
end SUMMER;

HRP:PROC(JOBNO) RETURNS(float dec(6));  /* modified 7/24/90 */
dcl (JOBNO) float dec(6);
if PAYRATE(NEWYEAR,JOBNO)>0 & TIMERATE(NEWYEAR,JOBNO)>0 then do;
  if TIMERATE(NEWYEAR,JOBNO)=1 then RETURN(PAYRATE(NEWYEAR,JOBNO));
  else if TIMERATE(NEWYEAR,JOBNO)=2 & HOURDAY(NEWYEAR,JOBNO)>0 then
    RETURN((FLOOR(PAYRATE(NEWYEAR,JOBNO)/HOURDAY(NEWYEAR,JOBNO))));
  else if TIMERATE(NEWYEAR,JOBNO)>=3 & TIMERATE(NEWYEAR,JOBNO)<7 &
  HOURSWEEK(NEWYEAR,JOBNO)>0
    then do;
    if TIMERATE(NEWYEAR,JOBNO)=3 then
     RETURN((FLOOR(PAYRATE(NEWYEAR,JOBNO)/HOURSWEEK(NEWYEAR,JOBNO))));
    else if TIMERATE(NEWYEAR,JOBNO)=4 then
     RETURN((FLOOR(PAYRATE(NEWYEAR,JOBNO)/ (HOURSWEEK(NEWYEAR,JOBNO)*2))));
    else if TIMERATE(NEWYEAR,JOBNO)=5 then
     RETURN((FLOOR(PAYRATE(NEWYEAR,JOBNO)/ (HOURSWEEK(NEWYEAR,JOBNO)*4.3))));
    else if TIMERATE(NEWYEAR,JOBNO)=6 then
     RETURN((FLOOR(PAYRATE(NEWYEAR,JOBNO)/ (HOURSWEEK(NEWYEAR,JOBNO)*52))));
  end;
  else RETURN(-4);
end;
else RETURN(-4);   end HRP;
```

/***1989**/

```
default RANGE(I:N) float;
 dcl WORKTAP file record input;        /* current work history tape  */
 dcl OLDXVAR file record input;        /* current extra work history variables */
 dcl FIXVAR  file record input;        /* fixes and additions for 1989 wh    */
 dcl VARSNYR file record input;        /* new year data-12686 cases, inc. wt */
 dcl ADDJOBS file record input;        /* new year add jobs file */
 dcl NEWWORK file record output;       /* writes new updated work history tape */
 dcl NEWXVAR file record output;       /* writes additional work history vars */
 dcl OUTDISK file stream output;       /* writes 89 key vars file on disk */
 dcl (MOD,FLOOR,CEIL,SUBSTR) BUILTIN, sysprint file;
 dcl (OLDA,ALIM,J,K,KK,JJ,N,I,NUMVAR) fixed bin(15);
 on endfile(WORKTAP) go to done;
 on error go to done;
OLDA=575; ALIM=627; NEWYEAR=11; SURVEY_YR=89; /* note: update this line for arrays limit & year */
```

```
dcl 1 VARYR,                          /* vars for new workhistory */
   2 X(1:1741) float dec(6);
dcl 1 STRUCTIN controlled,
   2 INFO(8)        float dec(6),       /*CURRENT WORKHISTORY record */
   2 HISTYRS(NEWYEAR-1),
    5 OWT           float dec(6),
    5 OLASTINT       float dec(6),
    5 OINT          float dec(6),
    5 OINTM          float dec(6),
    5 OINTD          float dec(6),
    5 OINTY          float dec(6),
    5 OJOB(10,47)      float dec(6),
    5 OBTWNJOBS(6,5)    float dec(6),
    5 OMILIT(6)        float dec(6),
    5 OCALENDAR(17)     float dec(6),
    5 OLASTSUM(8)       float dec(6);
dcl 1 XSTRUCT controlled,
   2 ARRAY1(0:OLDA)     fixed bin(15,0),
   2 ARRAY2(0:OLDA)     fixed bin(15,0),
   2 ARRAY3(0:OLDA,4)   fixed bin(15,0);
dcl 1 XVARS controlled,
   2 PUBLICID         fixed bin(31,0),
   2 A(0:ALIM)         fixed bin(15,0),
   2 HOUR(0:ALIM)      fixed bin(15,0),
   2 DUALJOB(0:ALIM,4)  fixed bin(15,0);
dcl CPS_HOURLYWAGE(NEWYEAR) float dec(6) controlled;
dcl 1 VARIABLES controlled,
   2 ID            float dec(6),      /* ID number of respondent, X(1) */
   2 SAMPLE_ID      float dec(6),      /* sample type, X(1561) */
   2 SEX           float dec(6),
   2 RACE          float dec(6),
   2 BIRTHM_79      float dec(6),
   2 BIRTHD_79      float dec(6),
   2 BIRTHY_79      float dec(6),
   2 BIRTHM_81      float dec(6),
   2 BIRTHD_81      float dec(6),
   2 BIRTHY_81      float dec(6),
   2 OLDHIST(NEWYEAR-1),
    5 OWT           float dec(6),
    5 OLASTINT      float dec(6),
    5 OINT          float dec(6),
    5 OINTM         float dec(6),
    5 OINTD         float dec(6),
    5 OINTY         float dec(6),
    5 OJOB(10,47)    float dec(6),
    5 OBTWNJOBS(6,5) float dec(6),
    5 OMILIT(6)      float dec(6),
    5 OCALENDAR(17)  float dec(6),
    5 OLASTSUM(8)    float dec(6),
    5 OJOBEVER       float dec(6),
   2 WORK_HISTORY(NEWYEAR:NEWYEAR),
    5 WEIGHT,                     /* sampling weight   */
    5 LASTINT,                    /* week number of last interview */
    5 INT,                        /* week number of current interview */
    5 INTM,                       /* month of the interview */
    5 INTD,                       /* day of the interview */
```

```
 5 INTY,                         /* year of the interview */
 5 JOB(10),                      /* 10 possible jobs for each interview */
  10 START,                      /* starting week of the job */
  10 STARTM,                     /* starting month of the job */
  10 STARTD,                     /* starting day of the job */
  10 STARTY,                     /* starting year of the job */
  10 STOP,                       /* stopping week of the job */
  10 STOPM,                      /* stopping month of the job */
  10 STOPD,                      /* stopping day of the job */
  10 STOPY,                      /* stopping year of the job */
  10 PAST,                       /* has R worked at job before last interview */
  10 CURRENT,                    /* working at job at interview date */
  10 WHYLEFT,                    /* reason left job if not currently working */
  10 CPSJOB,                     /* is this job same as the cps job */
  10 HOURSWEEK,                  /* usual hours per week at this job */
  10 OCCUPATION,                 /* usual occupation at this job */
  10 INDUSTRY,                   /* usual industry at this job */
  10 CLASSWORKER,                /* class of worker at this job */
  10 HOURDAY,                    /* usual hours per day worked at this job */
  10 PAYRATE,                    /* usual wage or salary at this job */
  10 TIMERATE,                   /* time unit to interpret payrate */
  10 HOURLYWAGE,                 /* usual wage converted to hourly wage */
  10 UNION,                      /* wages set by collective bargaining */
  10 GOVTJOB,                    /* is this job government-sponsored */
  10 WEEKSNOTWORKED,             /* any weeks not working at this job */
  10 PERIOD_IN_JOB(4),           /* information on each period not working */
   15 PERIODSTART,               /* starting wk number of period not working */
   15 PERIODSTOP,                /* stopping wk number of period not working */
   15 REASON,                    /* reason not working for this period */
   15 ALL,                       /* how much time unemployed in this period */
   15 LOOK,                      /* number of weeks unemployed in this period */
  10 PREVIOUSEMP#,               /* job number of employer from last int */
  10 PRETEN,                     /* months worked for employer before lastint */
  10 TENURE,                     /* total weeks tenure as of interview date */
  10 NUMBER,                     /* job number which is loaded into 'A' array */
 5 BETWEEN_JOBS(6),              /* information about periods not working between jobs and military
    service */
  10 BSTART,                     /* week started this period not working */
  10 BSTOP,                      /* week stopped this period not working */
  10 BALL,                       /* how much of period not worked unemployed */
  10 BLOOK,                      /* number of weeks unemployed in this period */
  10 BREASON,                    /* reason not looking for work this period */
 5 MILITARY,                     /* information about active military service */
  10 MSTART1,                    /* starting week of first period of service */
  10 MSTART2,                    /* starting week of second period of service */
  10 MSTOP1,                     /* stopping week of first period of service */
  10 MSTOP2,                     /* stopping week of second period of service */
  10 MILWKSL,                    /* weeks active military service as of int */
  10 MILWKSC,                    /* weeks active military service in the calendar year */
 5 CALENDAR_YEAR_SUM,            /* key variables for the calendar year */
  10 WORKC,                      /* weeks worked in the calendar year */
  10 HOURC,                      /* hours worked in the calendar year */
  10 WUMPC,                      /* weeks unemployed in the calendar year */
  10 WOLFC,                      /* weeks out of labor force in calendar year */
  10 CAL_YEAR_JOBS,              /* number of jobs in the calendar year */
  10 CAL_YEAR_JOB#(10),          /* job numbers in the calendar year */
```

```
        10 MISSC,                      /* % of weeks unaccounted for in year */
        10 NWMISSC,                    /* % weeks not employed that can't be split */
      5 LASTINT_SUM,                   /* key variables calculated since last int */
        10 LASTINT_JOBS,               /* number of jobs since last interview */
        10 WORKL,                      /* number of weeks worked since last int */
        10 HOURL,                      /* number of hours worked since last int */
        10 WUMPL,                      /* number of weeks unemployed since last int */
        10 WOLFL,                      /* weeks out of labor force since last int */
        10 WBID,                       /* number of weeks since last int */
        10 MISSL,                      /* % of weeks unaccounted for since last int */
        10 NWMISSL,                    /* % weeks not employed that can't be split */
        10 JOBEVER;                    /* number of different jobs ever held */
dcl 1 FIXER,
   2 PUBID      float dec(6),
   2 TENUR(10)  float dec(6),
   2 HOURSWK(5)  float dec(6),
   2 JOBSEV(10)  float dec(6);
dcl (NA,DK,MAX,MAXYEAR,MAXDUAL,MAXINT,PR,SURVEY_YR,
    P,LEAP,FILLER,F,DUP,DUA,DIV,NEWYEAR,FLAG,#WEEKS)  float dec(6);
dcl(kount,kountadd,kountnew,kountold,kount_out,kount_XVR) fixed bin(15);
dcl (kountfix,WTZERO) fixed bin(15);


NA=-4; DK=-3; kount=0; kountadd=0; kountnew=0; kountold=0; kount_out=0; kount_XVR=0; kountfix=0;
          WTZERO=0; MAX=0; MAXYEAR=100; MAXDUAL=0; MAXINT=0;
allocate VARIABLES,STRUCTIN, XSTRUCT, XVARS, CPS_HOURLYWAGE;

1READ1:  read file (WORKTAP) into (STRUCTIN);
        read file (OLDXVAR) into (XSTRUCT);
  kount=kount+1;
  ID=INFO(1);
  PUBLICID = ID;      /*** PUBLIC ID FOR XVAR ***/
  SAMPLE_ID=INFO(2);
  BIRTHM_79=INFO(3);        BIRTHD_79=INFO(4);        BIRTHY_79=INFO(5);
  BIRTHM_81=INFO(6);        BIRTHD_81=INFO(7);        BIRTHY_81=INFO(8);
  A=0; HOUR=0; DUALJOB=0;

  do J=0 to OLDA;  /* copy old array info into the current array struct */
    A(J)=ARRAY1(J); HOUR(J)=ARRAY2(J);
   do K = 1 to 4;
     DUALJOB(J,K) = ARRAY3(J,K);
   end;
  end;

  OLDHIST=HISTYRS, by NAME;

 /* hand edits for 1989 only  - fixes for 1988 hand edits that were not incorporated in 1979-1988 work history */
if ID=7407 | ID=9687 | ID=12064  then do;
   OLDHIST.OJOB(10,2,1)=-3;            OLDHIST.OJOB(10,2,5)=-3;
end;
if ID = 1755 | ID = 6785 | ID = 10264 then do;
   OLDHIST.OJOB(10,2,1) = -3;                    OLDHIST.OJOB(10,2,5)  = -3;
end;
if ID = 8339  then do;
   OLDHIST.OJOB(10,3,1) = -3;                    OLDHIST.OJOB(10,3,5) = -3;
end;
if ID = 6023 then do;
```

```
  OLDHIST.OJOB(10,6,29) = -4;              OLDHIST.OJOB(10,6,30) = -4;
  OLDHIST.OJOB(10,6,31) = -4;              OLDHIST.OJOB(10,6,44) = -3;
  OLDHIST.OJOB(10,6,45) = -3;              OLDHIST.OJOB(10,6,46) = -3;
  OLDHIST.OJOB(10,6,47) = -3;              OLDHIST.OJOB(10,7,9) = -3;
  OLDHIST.OJOB(10,7,10) = -3;              OLDHIST.OJOB(10,7,13) = -3;
  OLDHIST.OJOB(10,7,14) = -3;              OLDHIST.OJOB(10,7,15) = -3;
  OLDHIST.OJOB(10,7,16) = -3;              OLDHIST.OJOB(10,7,17) = -3;
  OLDHIST.OJOB(10,7,18) = -3;              OLDHIST.OJOB(10,7,19) = -3;
  OLDHIST.OJOB(10,7,20) = -3;              OLDHIST.OJOB(10,7,21) = -3;
  OLDHIST.OJOB(10,7,23) = -3;              OLDHIST.OJOB(10,7,26) = -3;
  OLDHIST.OJOB(10,7,27) = -3;              OLDHIST.OJOB(10,7,28) = -3;
  OLDHIST.OJOB(10,7,31) = -3;              OLDHIST.OJOB(10,7,32) = -3;
  OLDHIST.OJOB(10,7,33) = -3;              OLDHIST.OJOB(10,7,39) = -3;
  OLDHIST.OJOB(10,7,40) = -3;              OLDHIST.OJOB(10,7,41) = -3;
  OLDHIST.OJOB(10,7,42) = -3;              OLDHIST.OJOB(10,7,43) = -3;
  OLDHIST.OJOB(10,7,44) = -3;              OLDHIST.OJOB(10,7,45) = -3;
  OLDHIST.OJOB(10,7,47) = -3;
 end;

/*  fix third within job gap for 1988    */
 if ID=148 then do;
   OLDHIST.OJOB(10,2,34)=WEEK(12,15,87);    OLDHIST.OJOB(10,2,35)=WEEK(12,27,87);
   OLDHIST.OJOB(10,2,36)=4;                 OLDHIST.OJOB(10,2,37)=1;
 end;
 if ID=153 then do;
   OLDHIST.OJOB(10,1,34)=WEEK(12,6,88);     OLDHIST.OJOB(10,1,35)=WEEK(12,12,88);
   OLDHIST.OJOB(10,1,36)=1;
 end;
 if ID=411 then do;
   OLDHIST.OJOB(10,1,34)=WEEK(7,-3,88);     OLDHIST.OJOB(10,1,35)=WEEK(11,-3,88);
   OLDHIST.OJOB(10,1,36)=2;
 end;
 if ID=442 then do;
   OLDHIST.OJOB(10,1,34)=WEEK(9,23,88);     OLDHIST.OJOB(10,1,35)=WEEK(10,12,88);
   OLDHIST.OJOB(10,1,36)=14;
 end;
 if ID=490 then do;
   OLDHIST.OJOB(10,2,34)=WEEK(-3,-3,-3);    OLDHIST.OJOB(10,2,35)=WEEK(-3,-3,-3);
   OLDHIST.OJOB(10,2,36)=-3;                OLDHIST.OJOB(10,2,37)=-3;
   OLDHIST.OJOB(10,2,38)=-3;                OLDHIST.OJOB(10,4,34)=WEEK(-3,-3,-3);
   OLDHIST.OJOB(10,4,35)=WEEK(-3,-3,-3);    OLDHIST.OJOB(10,4,36)=-3;
   OLDHIST.OJOB(10,4,37)=-3;                OLDHIST.OJOB(10,4,38)=-3;
   OLDHIST.OJOB(10,5,34)=WEEK(-3,-3,-3);    OLDHIST.OJOB(10,5,35)=WEEK(-3,-3,-3);
   OLDHIST.OJOB(10,5,36)=-3;                OLDHIST.OJOB(10,5,37)=-3;
   OLDHIST.OJOB(10,5,38)=-3;
 end;
 if ID=706 then do;
   OLDHIST.OJOB(10,1,34)=WEEK(7,1,88);      OLDHIST.OJOB(10,1,35)=WEEK(7,11,88);
   OLDHIST.OJOB(10,1,36)=14;
 end;
 if ID=774 then do;
   OLDHIST.OJOB(10,2,34)=WEEK(-3,-3,-3);    OLDHIST.OJOB(10,2,35)=WEEK(-3,-3,-3);
   OLDHIST.OJOB(10,2,36)=-3;
 end;
 if ID=826 then do;
   OLDHIST.OJOB(10,2,34)=WEEK(6,20,88);     OLDHIST.OJOB(10,2,35)=WEEK(6,30,88);
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   OLDHIST.OJOB(10,2,36)=4;                 OLDHIST.OJOB(10,2,37)=1;
end;
if ID=842 then do;
   OLDHIST.OJOB(10,1,34)=WEEK(4,29,88);     OLDHIST.OJOB(10,1,35)=WEEK(7,21,88);
   OLDHIST.OJOB(10,1,36)=1;
end;
if ID=1083 then do;
   OLDHIST.OJOB(10,2,34)=WEEK(5,26,88);     OLDHIST.OJOB(10,2,35)=WEEK(6,24,88);
   OLDHIST.OJOB(10,2,36)=4;                 OLDHIST.OJOB(10,2,37)=1;
end;
if ID=1104 then do;
   OLDHIST.OJOB(10,1,34)=WEEK(5,29,88);     OLDHIST.OJOB(10,1,35)=WEEK(7,6,88);
   OLDHIST.OJOB(10,1,36)=4;                 OLDHIST.OJOB(10,1,37)=1;
end;
if ID=1139 then do;
   OLDHIST.OJOB(10,2,34)=WEEK(3,21,88);     OLDHIST.OJOB(10,2,35)=WEEK(4,8,88);
   OLDHIST.OJOB(10,2,36)=4;                 OLDHIST.OJOB(10,2,37)=1;
end;
if ID=1230 then do;
   OLDHIST.OJOB(10,1,34)=WEEK(10,5,87);     OLDHIST.OJOB(10,1,35)=WEEK(11,9,87);
   OLDHIST.OJOB(10,1,36)=4;                 OLDHIST.OJOB(10,1,37)=1;
end;
if ID=1300 then do;
   OLDHIST.OJOB(10,1,34)=WEEK(9,12,88);     OLDHIST.OJOB(10,1,35)=WEEK(9,22,88);
   OLDHIST.OJOB(10,1,36)=14;
end;
if ID=1476 then do;
   OLDHIST.OJOB(10,1,34)=WEEK(7,11,88);     OLDHIST.OJOB(10,1,35)=WEEK(7,20,88);
   OLDHIST.OJOB(10,1,36)=13;
end;
if ID=1486 then do;
   OLDHIST.OJOB(10,2,34)=WEEK(12,2,87);     OLDHIST.OJOB(10,2,35)=WEEK(12,19,87);
   OLDHIST.OJOB(10,2,36)=14;
end;
if ID=1675 then do;
   OLDHIST.OJOB(10,1,34)=WEEK(3,3,88);      OLDHIST.OJOB(10,1,35)=WEEK(3,30,88);
   OLDHIST.OJOB(10,1,36)=14;
end;
if ID=1710 then do;
   OLDHIST.OJOB(10,2,34)=WEEK(-2,-2,-2);    OLDHIST.OJOB(10,2,35)=WEEK(-2,-2,-2);
   OLDHIST.OJOB(10,2,36)=-2;
end;
if ID=1765 then do;
   OLDHIST.OJOB(10,2,34)=WEEK(12,17,87);    OLDHIST.OJOB(10,2,35)=WEEK(12,29,87);
   OLDHIST.OJOB(10,2,36)=4;                 OLDHIST.OJOB(10,2,37)=1;
end;
if ID=1938 then do;
   OLDHIST.OJOB(10,1,34)=WEEK(5,11,87);     OLDHIST.OJOB(10,1,35)=WEEK(5,25,87);
   OLDHIST.OJOB(10,1,36)=4;                 OLDHIST.OJOB(10,1,37)=1;
end;
if ID=2000 then do;
   OLDHIST.OJOB(10,1,34)=WEEK(6,14,87);     OLDHIST.OJOB(10,1,35)=WEEK(6,28,87);
   OLDHIST.OJOB(10,1,36)=4;                 OLDHIST.OJOB(10,1,37)=2;
   OLDHIST.OJOB(10,1,38)=1;
end;
if ID=2148 then do;
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  OLDHIST.OJOB(10,2,34)=WEEK(6,15,87);      OLDHIST.OJOB(10,2,35)=WEEK(6,23,87);
  OLDHIST.OJOB(10,2,36)=4;                   OLDHIST.OJOB(10,2,37)=1;
end;
if ID=2242 then do;
  OLDHIST.OJOB(10,1,34)=WEEK(5,21,88);      OLDHIST.OJOB(10,1,35)=WEEK(5,31,88);
  OLDHIST.OJOB(10,1,36)=6;
end;
if ID=2407 then do;
  OLDHIST.OJOB(10,1,34)=WEEK(4,4,88);       OLDHIST.OJOB(10,1,35)=WEEK(4,11,88);
  OLDHIST.OJOB(10,1,36)=4;                   OLDHIST.OJOB(10,1,37)=2;
  OLDHIST.OJOB(10,1,38)=0;
end;
if ID=2524 then do;
  OLDHIST.OJOB(10,1,34)=WEEK(12,27,87);     OLDHIST.OJOB(10,1,35)=WEEK(1,3,88);
  OLDHIST.OJOB(10,1,36)=4;                   OLDHIST.OJOB(10,1,37)=1;
end;
if ID=2541 then do;
  OLDHIST.OJOB(10,1,34)=WEEK(6,8,87);       OLDHIST.OJOB(10,1,35)=WEEK(7,12,87);
  OLDHIST.OJOB(10,1,36)=1;
end;
if ID=2692 then do;
  OLDHIST.OJOB(10,1,34)=WEEK(6,20,88);      OLDHIST.OJOB(10,1,35)=WEEK(6,29,88);
  OLDHIST.OJOB(10,1,36)=4;                   OLDHIST.OJOB(10,1,37)=3;
end;
if ID=2802 then do;
  OLDHIST.OJOB(10,2,34)=WEEK(1,1,88);       OLDHIST.OJOB(10,2,35)=WEEK(1,31,88);
  OLDHIST.OJOB(10,2,36)=2;
end;
if ID=2870 then do;
  OLDHIST.OJOB(10,2,34)=WEEK(3,30,88);      OLDHIST.OJOB(10,2,35)=WEEK(6,15,88);
  OLDHIST.OJOB(10,2,36)=-3;
end;
if ID=3011 then do;
  OLDHIST.OJOB(10,1,34)=WEEK(7,17,88);      OLDHIST.OJOB(10,1,35)=WEEK(7,24,88);
  OLDHIST.OJOB(10,1,36)=11;                  OLDHIST.OJOB(10,2,34)=WEEK(7,17,88);
  OLDHIST.OJOB(10,2,35)=WEEK(7,24,88);      OLDHIST.OJOB(10,2,36)=11;
end;
if ID=3198 then do;
  OLDHIST.OJOB(10,1,34)=WEEK(5,30,88);      OLDHIST.OJOB(10,1,35)=WEEK(9,18,88);
  OLDHIST.OJOB(10,1,36)=12;
end;
if ID=3243 then do;
  OLDHIST.OJOB(10,1,34)=WEEK(-3,-3,-3);     OLDHIST.OJOB(10,1,35)=WEEK(-3,-3,-3);
  OLDHIST.OJOB(10,1,36)=-3;                  OLDHIST.OJOB(10,1,37)=-3;
  OLDHIST.OJOB(10,1,38)=-3;
end;
if ID=3261 then do;
  OLDHIST.OJOB(10,3,34)=WEEK(-3,-3,-3);     OLDHIST.OJOB(10,3,35)=WEEK(-3,-3,-3);
  OLDHIST.OJOB(10,3,36)=-3;                  OLDHIST.OJOB(10,3,37)=-3;
  OLDHIST.OJOB(10,3,38)=-3;
end;
if ID=3366 then do;
  OLDHIST.OJOB(10,1,34)=WEEK(6,4,88);       OLDHIST.OJOB(10,1,35)=WEEK(7,11,88);
  OLDHIST.OJOB(10,1,36)=4;                   OLDHIST.OJOB(10,1,37)=1;
end;
if ID=3473 then do;
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  OLDHIST.OJOB(10,1,34)=WEEK(8,22,88);        OLDHIST.OJOB(10,1,35)=WEEK(8,29,88);
  OLDHIST.OJOB(10,1,36)=4;                    OLDHIST.OJOB(10,1,37)=1;
end;
if ID=3543 then do;
  OLDHIST.OJOB(10,2,34)=WEEK(12,7,87);        OLDHIST.OJOB(10,2,35)=WEEK(12,11,87);
  OLDHIST.OJOB(10,2,36)=4;                    OLDHIST.OJOB(10,2,37)=1;
end;
if ID=3741 then do;
  OLDHIST.OJOB(10,2,34)=WEEK(6,17,88);        OLDHIST.OJOB(10,2,35)=WEEK(7,9,88);
  OLDHIST.OJOB(10,2,36)=6;
end;
if ID=3765 then do;
  OLDHIST.OJOB(10,1,34)=WEEK(3,15,88);        OLDHIST.OJOB(10,1,35)=WEEK(3,30,88);
  OLDHIST.OJOB(10,1,36)=2;
end;
if ID=3883 then do;
  OLDHIST.OJOB(10,2,34)=WEEK(12,7,87);        OLDHIST.OJOB(10,2,35)=WEEK(12,11,87);
  OLDHIST.OJOB(10,2,36)=4;                    OLDHIST.OJOB(10,2,37)=1;
end;
if ID=3911 then do;
  OLDHIST.OJOB(10,1,34)=WEEK(5,26,88);        OLDHIST.OJOB(10,1,35)=WEEK(6,4,88);
  OLDHIST.OJOB(10,1,36)=14;
end;
if ID=3912 then do;
  OLDHIST.OJOB(10,2,34)=WEEK(-3,-3,-3);       OLDHIST.OJOB(10,2,35)=WEEK(-3,-3,-3);
  OLDHIST.OJOB(10,2,36)=13;
end;
if ID=3962 then do;
  OLDHIST.OJOB(10,1,34)=WEEK(1,4,88);         OLDHIST.OJOB(10,1,35)=WEEK(1,11,88);
  OLDHIST.OJOB(10,1,36)=2;
end;
if ID=4245 then do;
  OLDHIST.OJOB(10,1,34)=WEEK(2,4,88);         OLDHIST.OJOB(10,1,35)=WEEK(2,11,88);
  OLDHIST.OJOB(10,1,36)=11;
end;
if ID=4367 then do;
  OLDHIST.OJOB(10,1,34)=WEEK(8,6,88);         OLDHIST.OJOB(10,1,35)=WEEK(8,20,88);
  OLDHIST.OJOB(10,1,36)=4;                    OLDHIST.OJOB(10,1,37)=1;
end;
if ID=4501 then do;
  OLDHIST.OJOB(10,2,34)=WEEK(5,1,88);         OLDHIST.OJOB(10,2,35)=WEEK(7,31,88);
  OLDHIST.OJOB(10,2,36)=14;
end;
if ID=4553 then do;
  OLDHIST.OJOB(10,2,34)=WEEK(2,-2,87);        OLDHIST.OJOB(10,2,35)=WEEK(2,-2,87);
  OLDHIST.OJOB(10,2,36)=-3;                   OLDHIST.OJOB(10,3,34)=WEEK(2,-2,87);
  OLDHIST.OJOB(10,3,35)=WEEK(2,-2,87);        OLDHIST.OJOB(10,3,36)=-3;
end;
if ID=4589 then do;
  OLDHIST.OJOB(10,1,34)=WEEK(7,13,88);        OLDHIST.OJOB(10,1,35)=WEEK(8,11,88);
  OLDHIST.OJOB(10,1,36)=2;
end;
if ID=4590 then do;
  OLDHIST.OJOB(10,2,34)=WEEK(10,15,88);       OLDHIST.OJOB(10,2,35)=WEEK(10,22,88);
  OLDHIST.OJOB(10,2,36)=14;
end;
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if ID=4748 then do;
  OLDHIST.OJOB(10,1,34)=WEEK(5,4,88);          OLDHIST.OJOB(10,1,35)=WEEK(6,10,88);
  OLDHIST.OJOB(10,1,36)=9;
end;
if ID=4802 then do;
  OLDHIST.OJOB(10,1,34)=WEEK(2,16,88);         OLDHIST.OJOB(10,1,35)=WEEK(5,16,88);
  OLDHIST.OJOB(10,1,36)=9;
end;
if ID=4929 then do;
  OLDHIST.OJOB(10,1,34)=WEEK(1,4,88);          OLDHIST.OJOB(10,1,35)=WEEK(1,9,88);
  OLDHIST.OJOB(10,1,36)=2;
end;
if ID=4968 then do;
  OLDHIST.OJOB(10,2,34)=WEEK(7,1,87);          OLDHIST.OJOB(10,2,35)=WEEK(7,16,87);
  OLDHIST.OJOB(10,2,36)=14;
end;
if ID=5124 then do;
  OLDHIST.OJOB(10,2,34)=WEEK(4,6,88);          OLDHIST.OJOB(10,2,35)=WEEK(4,14,88);
  OLDHIST.OJOB(10,2,36)=4;                     OLDHIST.OJOB(10,2,37)=1;
end;
if ID=5295 then do;
  OLDHIST.OJOB(10,1,34)=WEEK(4,1,88);          OLDHIST.OJOB(10,1,35)=WEEK(4,7,88);
  OLDHIST.OJOB(10,1,36)=12;
end;
if ID=5359 then do;
  OLDHIST.OJOB(10,2,34)=WEEK(8,1,88);          OLDHIST.OJOB(10,2,35)=WEEK(9,12,88);
  OLDHIST.OJOB(10,2,36)=4;                     OLDHIST.OJOB(10,2,37)=1;
end;
if ID=5406 then do;
  OLDHIST.OJOB(10,1,34)=WEEK(6,24,88);         OLDHIST.OJOB(10,1,35)=WEEK(8,12,88);
  OLDHIST.OJOB(10,1,36)=4;                     OLDHIST.OJOB(10,1,37)=1;
end;
if ID=5552 then do;
  OLDHIST.OJOB(10,1,34)=WEEK(8,21,87);         OLDHIST.OJOB(10,1,35)=WEEK(8,31,87);
  OLDHIST.OJOB(10,1,36)=2;
end;
if ID=5572 then do;
  OLDHIST.OJOB(10,1,34)=WEEK(3,11,88);         OLDHIST.OJOB(10,1,35)=WEEK(3,21,88);
  OLDHIST.OJOB(10,1,36)=2;
end;
if ID=5602 then do;
  OLDHIST.OJOB(10,2,34)=WEEK(1,16,88);         OLDHIST.OJOB(10,2,35)=WEEK(1,31,88);
  OLDHIST.OJOB(10,2,36)=13;
end;
if ID=5616 then do;
  OLDHIST.OJOB(10,2,34)=WEEK(5,19,88);         OLDHIST.OJOB(10,2,35)=WEEK(6,30,88);
  OLDHIST.OJOB(10,2,36)=4;                     OLDHIST.OJOB(10,2,37)=1;
end;
if ID=5624 then do;
  OLDHIST.OJOB(10,2,34)=WEEK(6,30,88);         OLDHIST.OJOB(10,2,35)=WEEK(7,31,88);
  OLDHIST.OJOB(10,2,36)=4;                     OLDHIST.OJOB(10,2,37)=2;
  OLDHIST.OJOB(10,2,38)=4;
end;
if ID=5627 then do;
  OLDHIST.OJOB(10,1,34)=WEEK(6,1,88);          OLDHIST.OJOB(10,1,35)=WEEK(6,15,88);
  OLDHIST.OJOB(10,1,36)=14;
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end;
if ID=5793 then do;
  OLDHIST.OJOB(10,4,34)=WEEK(-3,-3,-3);        OLDHIST.OJOB(10,4,35)=WEEK(-3,-3,-3);
  OLDHIST.OJOB(10,4,36)=-3;                    OLDHIST.OJOB(10,4,37)=-3;
  OLDHIST.OJOB(10,4,38)=-3;
end;
if ID=5839 then do;
  OLDHIST.OJOB(10,1,34)=WEEK(2,1,88);          OLDHIST.OJOB(10,1,35)=WEEK(2,26,88);
  OLDHIST.OJOB(10,1,36)=2;
end;
if ID=5936 then do;
  OLDHIST.OJOB(10,1,34)=WEEK(7,29,88);         OLDHIST.OJOB(10,1,35)=WEEK(8,6,88);
  OLDHIST.OJOB(10,1,36)=8;
end;
if ID=6009 then do;
  OLDHIST.OJOB(10,1,34)=WEEK(4,19,87);         OLDHIST.OJOB(10,1,35)=WEEK(4,26,87);
  OLDHIST.OJOB(10,1,36)=4;                      OLDHIST.OJOB(10,1,37)=3;
end;
if ID=6262 then do;
  OLDHIST.OJOB(10,4,34)=WEEK(-3,-3,-3);        OLDHIST.OJOB(10,4,35)=WEEK(-3,-3,-3);
  OLDHIST.OJOB(10,4,36)=-3;                    OLDHIST.OJOB(10,4,37)=-3;
end;
if ID=6282 then do;
  OLDHIST.OJOB(10,1,34)=WEEK(5,10,88);         OLDHIST.OJOB(10,1,35)=WEEK(9,1,88);
  OLDHIST.OJOB(10,1,36)=-3;
end;
if ID=6491 then do;
  OLDHIST.OJOB(10,2,34)=WEEK(-3,-3,-3);        OLDHIST.OJOB(10,2,35)=WEEK(-3,-3,-3);
  OLDHIST.OJOB(10,2,36)=-3;                    OLDHIST.OJOB(10,2,37)=-3;
  OLDHIST.OJOB(10,2,38)=-3;
end;
if ID=6553 then do;
  OLDHIST.OJOB(10,1,34)=WEEK(9,1,88);          OLDHIST.OJOB(10,1,35)=WEEK(9,30,88);
  OLDHIST.OJOB(10,1,36)=10;
end;
if ID=6577 then do;
  OLDHIST.OJOB(10,1,34)=WEEK(1,21,88);         OLDHIST.OJOB(10,1,35)=WEEK(1,28,88);
  OLDHIST.OJOB(10,1,36)=9;
end;
if ID=6628 then do;
  OLDHIST.OJOB(10,1,34)=WEEK(6,17,88);         OLDHIST.OJOB(10,1,35)=WEEK(8,18,88);
  OLDHIST.OJOB(10,1,36)=12;
end;
if ID=6694 then do;
  OLDHIST.OJOB(10,1,34)=WEEK(5,1,87);          OLDHIST.OJOB(10,1,35)=WEEK(6,2,87);
  OLDHIST.OJOB(10,1,36)=2;
end;
if ID=6915 then do;
  OLDHIST.OJOB(10,2,34)=WEEK(5,19,88);         OLDHIST.OJOB(10,2,35)=WEEK(6,30,88);
  OLDHIST.OJOB(10,2,36)=4;                      OLDHIST.OJOB(10,2,37)=1;
end;
if ID=7038 then do;
  OLDHIST.OJOB(10,1,34)=WEEK(5,18,88);         OLDHIST.OJOB(10,1,35)=WEEK(8,4,88);
  OLDHIST.OJOB(10,1,36)=4;                      OLDHIST.OJOB(10,1,37)=1;
end;
if ID=7061 then do;
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  OLDHIST.OJOB(10,2,34)=WEEK(6,20,88);        OLDHIST.OJOB(10,2,35)=WEEK(7,2,88);
  OLDHIST.OJOB(10,2,36)=4;                    OLDHIST.OJOB(10,2,37)=1;
end;
if ID=7078 then do;
  OLDHIST.OJOB(10,1,34)=WEEK(9,5,88);         OLDHIST.OJOB(10,1,35)=WEEK(9,14,88);
  OLDHIST.OJOB(10,1,36)=4;                    OLDHIST.OJOB(10,1,37)=3;
end;
if ID=7136 then do;
  OLDHIST.OJOB(10,1,34)=WEEK(-3,-3,-3);       OLDHIST.OJOB(10,1,35)=WEEK(-3,-3,-3);
  OLDHIST.OJOB(10,1,36)=-3;                   OLDHIST.OJOB(10,1,37)=-3;
end;
if ID=7205 then do;
  OLDHIST.OJOB(10,1,34)=WEEK(10,31,86);       OLDHIST.OJOB(10,1,35)=WEEK(2,25,87);
  OLDHIST.OJOB(10,1,36)=4;                    OLDHIST.OJOB(10,1,37)=1;
end;
if ID=7302 then do;
  OLDHIST.OJOB(10,1,34)=WEEK(-3,-3,-3);       OLDHIST.OJOB(10,1,35)=WEEK(-3,-3,-3);
  OLDHIST.OJOB(10,1,36)=-3;                   OLDHIST.OJOB(10,1,37)=-3;
  OLDHIST.OJOB(10,1,38)=-3;
end;
if ID=7379 then do;
  OLDHIST.OJOB(10,1,34)=WEEK(10,7,87);        OLDHIST.OJOB(10,1,35)=WEEK(10,18,87);
  OLDHIST.OJOB(10,1,36)=4;                    OLDHIST.OJOB(10,1,37)=-3;
  OLDHIST.OJOB(10,1,38)=-3;
end;
if ID=7534 then do;
  OLDHIST.OJOB(10,1,34)=WEEK(-3,-3,-3);       OLDHIST.OJOB(10,1,35)=WEEK(-3,-3,-3);
  OLDHIST.OJOB(10,1,36)=4;                    OLDHIST.OJOB(10,1,37)=1;
end;
if ID=7543 then do;
  OLDHIST.OJOB(10,1,34)=WEEK(3,20,88);        OLDHIST.OJOB(10,1,35)=WEEK(10,23,88);
  OLDHIST.OJOB(10,1,36)=2;
end;
if ID=7566 then do;
  OLDHIST.OJOB(10,1,34)=WEEK(-3,-3,-3);       OLDHIST.OJOB(10,1,35)=WEEK(-3,-3,-3);
  OLDHIST.OJOB(10,1,36)=-3;                   OLDHIST.OJOB(10,1,37)=-3;
  OLDHIST.OJOB(10,1,38)=-3;
end;
if ID=7699 then do;
  OLDHIST.OJOB(10,2,34)=WEEK(7,18,88);        OLDHIST.OJOB(10,2,35)=WEEK(8,11,88);
  OLDHIST.OJOB(10,2,36)=4;                    OLDHIST.OJOB(10,2,37)=2;
  OLDHIST.OJOB(10,2,38)=2;
end;
if ID=7886 then do;
  OLDHIST.OJOB(10,1,34)=WEEK(7,14,88);        OLDHIST.OJOB(10,1,35)=WEEK(7,23,88);
  OLDHIST.OJOB(10,1,36)=9;
end;
if ID=8201 then do;
  OLDHIST.OJOB(10,1,34)=WEEK(1,7,88);         OLDHIST.OJOB(10,1,35)=WEEK(5,1,88);
  OLDHIST.OJOB(10,1,36)=13;
end;
if ID=8328 then do;
  OLDHIST.OJOB(10,1,34)=WEEK(11,1,87);        OLDHIST.OJOB(10,1,35)=WEEK(4,1,88);
  OLDHIST.OJOB(10,1,36)=-3;
end;
if ID=8368 then do;
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    OLDHIST.OJOB(10,1,34)=WEEK(2,22,88);        OLDHIST.OJOB(10,1,35)=WEEK(2,24,88);
    OLDHIST.OJOB(10,1,36)=2;
  end;
  if ID=8417 then do;
    OLDHIST.OJOB(10,1,34)=WEEK(6,5,88);         OLDHIST.OJOB(10,1,35)=WEEK(6,15,88);
    OLDHIST.OJOB(10,1,36)=4;                     OLDHIST.OJOB(10,1,37)=1;
  end;
  if ID=8669 then do;
    OLDHIST.OJOB(10,2,34)=WEEK(-3,-3,-3);       OLDHIST.OJOB(10,2,35)=WEEK(-3,-3,-3);
    OLDHIST.OJOB(10,2,36)=4;                     OLDHIST.OJOB(10,2,37)=1;
  end;
  if ID=8791 then do;
    OLDHIST.OJOB(10,1,34)=WEEK(6,8,88);         OLDHIST.OJOB(10,1,35)=WEEK(6,22,88);
    OLDHIST.OJOB(10,1,36)=3;                     OLDHIST.OJOB(10,1,37)=3;
  end;
  if ID=8808 then do;
    OLDHIST.OJOB(10,1,34)=WEEK(6,6,88);         OLDHIST.OJOB(10,1,35)=WEEK(6,10,88);
    OLDHIST.OJOB(10,1,36)=9;
  end;
  if ID=8894 then do;
    OLDHIST.OJOB(10,1,34)=WEEK(9,5,88);         OLDHIST.OJOB(10,1,35)=WEEK(9,9,88);
    OLDHIST.OJOB(10,1,36)=2;
  end;
  if ID=9045 then do;
    OLDHIST.OJOB(10,2,34)=WEEK(5,21,88);        OLDHIST.OJOB(10,2,35)=WEEK(5,28,88);
    OLDHIST.OJOB(10,2,36)=4;                     OLDHIST.OJOB(10,2,37)=1;
  end;
  if ID=9138 then do;
    OLDHIST.OJOB(10,1,34)=WEEK(6,30,88);        OLDHIST.OJOB(10,1,35)=WEEK(7,11,88);
    OLDHIST.OJOB(10,1,36)=2;
  end;
  if ID=9270 then do;
    OLDHIST.OJOB(10,1,34)=WEEK(7,9,88);         OLDHIST.OJOB(10,1,35)=WEEK(7,23,88);
    OLDHIST.OJOB(10,1,36)=7;
  end;
  if ID=9452 then do;
    OLDHIST.OJOB(10,2,34)=WEEK(8,1,88);         OLDHIST.OJOB(10,2,35)=WEEK(8,8,88);
    OLDHIST.OJOB(10,2,36)=4;                     OLDHIST.OJOB(10,2,37)=1;
  end;
  if ID=9512 then do;
    OLDHIST.OJOB(10,1,34)=WEEK(7,1,88);         OLDHIST.OJOB(10,1,35)=WEEK(8,1,88);
    OLDHIST.OJOB(10,1,36)=2;
  end;
  if ID=9617 then do;
    OLDHIST.OJOB(10,1,34)=WEEK(-3,-3,-3);       OLDHIST.OJOB(10,1,35)=WEEK(-3,-3,-3);
    OLDHIST.OJOB(10,1,36)=-3;
  end;
  if ID=9789 then do;
    OLDHIST.OJOB(10,2,34)=WEEK(8,1,87);         OLDHIST.OJOB(10,2,35)=WEEK(8,31,87);
    OLDHIST.OJOB(10,2,36)=8;
  end;
  if ID=9921 then do;
    OLDHIST.OJOB(10,1,34)=WEEK(6,9,88);         OLDHIST.OJOB(10,1,35)=WEEK(6,20,88);
    OLDHIST.OJOB(10,1,36)=11;
  end;
  if ID=10001 then do;
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  OLDHIST.OJOB(10,2,34)=WEEK(-3,-3,-3);        OLDHIST.OJOB(10,2,35)=WEEK(-3,-3,-3);
  OLDHIST.OJOB(10,2,36)=-3;                    OLDHIST.OJOB(10,2,37)=-3;
  OLDHIST.OJOB(10,2,38)=-3;
end;
if ID=10166 then do;
  OLDHIST.OJOB(10,2,34)=WEEK(9,15,87);         OLDHIST.OJOB(10,2,35)=WEEK(9,30,87);
  OLDHIST.OJOB(10,2,36)=4;                     OLDHIST.OJOB(10,2,37)=1;
end;
if ID=10182 then do;
  OLDHIST.OJOB(10,2,34)=WEEK(8,11,88);         OLDHIST.OJOB(10,2,35)=WEEK(8,16,88);
  OLDHIST.OJOB(10,2,36)=4;                     OLDHIST.OJOB(10,2,37)=1;
end;
if ID=10280 then do;
  OLDHIST.OJOB(10,2,34)=WEEK(7,3,88);          OLDHIST.OJOB(10,2,35)=WEEK(7,10,88);
  OLDHIST.OJOB(10,2,36)=14;
end;
if ID=10396 then do;
  OLDHIST.OJOB(10,1,34)=WEEK(6,12,88);         OLDHIST.OJOB(10,1,35)=WEEK(6,18,88);
  OLDHIST.OJOB(10,1,36)=4;                     OLDHIST.OJOB(10,1,37)=3;
end;
if ID=10537 then do;
  OLDHIST.OJOB(10,2,34)=WEEK(6,17,88);         OLDHIST.OJOB(10,2,35)=WEEK(6,27,88);
  OLDHIST.OJOB(10,2,36)=2;
end;
if ID=11441 then do;
  OLDHIST.OJOB(10,3,34)=WEEK(-3,-3,-3);        OLDHIST.OJOB(10,3,35)=WEEK(-3,-3,-3);
  OLDHIST.OJOB(10,3,36)=-3;                    OLDHIST.OJOB(10,3,37)=-3;
  OLDHIST.OJOB(10,3,38)=-3;
end;
if ID=11816 then do;
  OLDHIST.OJOB(10,1,34)=WEEK(3,18,88);         OLDHIST.OJOB(10,1,35)=WEEK(3,27,88);
  OLDHIST.OJOB(10,1,36)=14;                    OLDHIST.OJOB(10,3,34)=WEEK(4,2,88);
  OLDHIST.OJOB(10,3,35)=WEEK(4,10,88);         OLDHIST.OJOB(10,3,36)=12;
end;
if ID=12052 then do;
  OLDHIST.OJOB(10,3,34)=WEEK(11,23,87);        OLDHIST.OJOB(10,3,35)=WEEK(11,30,87);
  OLDHIST.OJOB(10,3,36)=14;
end;
if ID=12069 then do;
  OLDHIST.OJOB(10,1,34)=WEEK(6,12,88);         OLDHIST.OJOB(10,1,35)=WEEK(6,19,88);
  OLDHIST.OJOB(10,1,36)=2;                     OLDHIST.OJOB(10,2,34)=WEEK(1,1,88);
  OLDHIST.OJOB(10,2,35)=WEEK(3,1,88);          OLDHIST.OJOB(10,2,36)=2;
end;
if ID=12404 then do;
  OLDHIST.OJOB(10,1,34)=WEEK(9,1,88);          OLDHIST.OJOB(10,1,35)=WEEK(10,3,88);
  OLDHIST.OJOB(10,1,36)=4;                     OLDHIST.OJOB(10,1,37)=1;
end;
if ID=12470 then do;
  OLDHIST.OJOB(10,1,34)=WEEK(7,16,88);         OLDHIST.OJOB(10,1,35)=WEEK(9,5,88);
  OLDHIST.OJOB(10,1,36)=11;
end;
if ID=12519 then do;
  OLDHIST.OJOB(10,1,34)=WEEK(6,7,88);          OLDHIST.OJOB(10,1,35)=WEEK(8,19,88);
  OLDHIST.OJOB(10,1,36)=12;
end;
if ID=12520 then do;
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   OLDHIST.OJOB(10,1,34)=WEEK(12,21,87);      OLDHIST.OJOB(10,1,35)=WEEK(1,3,88);
   OLDHIST.OJOB(10,1,36)=4;                   OLDHIST.OJOB(10,1,37)=1;
 end;
 /*** end fix of third gap for 1988 ***/

/* fix fourth within job gap for 1988    */
if ID=1083 then do;
   OLDHIST.OJOB(10,1,39)=WEEK(6,26,88);       OLDHIST.OJOB(10,1,40)=WEEK(8,2,88);
   OLDHIST.OJOB(10,1,41)= 4;                  OLDHIST.OJOB(10,1,42)=1;
   OLDHIST.OJOB(10,1,43)=13;
 end;
 if ID=1139 then do;
   OLDHIST.OJOB(10,2,39)=WEEK(7,01,88);       OLDHIST.OJOB(10,2,40)=WEEK(7,20,88);
   OLDHIST.OJOB(10,2,41)= 4;                  OLDHIST.OJOB(10,2,42)=2;
   OLDHIST.OJOB(10,2,43)=14;
 end;
 if ID=1476 then do;
   OLDHIST.OJOB(10,1,39)=WEEK(8,11,87);       OLDHIST.OJOB(10,1,40)=WEEK(9,18,87);
   OLDHIST.OJOB(10,1,41)=13;
 end;
 if ID=2000 then do;
   OLDHIST.OJOB(10,1,39)=WEEK(7,04,87);       OLDHIST.OJOB(10,1,40)=WEEK(7,18,88);
   OLDHIST.OJOB(10,1,41)= 4;                  OLDHIST.OJOB(10,1,42)=2;
   OLDHIST.OJOB(10,1,43)=13;
 end;
 if ID=2541 then do;
   OLDHIST.OJOB(10,1,39)=WEEK(1,22,88);       OLDHIST.OJOB(10,1,40)=WEEK(2,16,88);
   OLDHIST.OJOB(10,1,41)= 1;
 end;
 if ID=3883 then do;
   OLDHIST.OJOB(10,1,39)=WEEK(7,16,88);       OLDHIST.OJOB(10,1,40)=WEEK(7,25,88);
   OLDHIST.OJOB(10,1,41)= 6;
 end;
 if ID=4527 then do;
   OLDHIST.OJOB(10,2,39)=WEEK(11,-3,88);      OLDHIST.OJOB(10,2,40)=WEEK(11,27,88);
   OLDHIST.OJOB(10,2,41)=3;
 end;
 if ID=4929 then do;
   OLDHIST.OJOB(10,1,39)=WEEK(1,25,88);       OLDHIST.OJOB(10,1,40)=WEEK(1,31,88);
   OLDHIST.OJOB(10,1,41)= 2;
 end;
 if ID=5295 then do;
   OLDHIST.OJOB(10,1,39)=WEEK(6,08,88);       OLDHIST.OJOB(10,1,40)=WEEK(8,19,88);
   OLDHIST.OJOB(10,1,41)=12;
 end;
 if ID=5602 then do;
   OLDHIST.OJOB(10,2,39)=WEEK(4,09,88);       OLDHIST.OJOB(10,2,40)=WEEK(5,21,88);
   OLDHIST.OJOB(10,2,41)=13;
 end;
 if ID=5839 then do;
   OLDHIST.OJOB(10,1,39)=WEEK(4,04,88);       OLDHIST.OJOB(10,1,40)=WEEK(4,15,88);
   OLDHIST.OJOB(10,1,41)= 2;
 end;
 if ID=6577 then do;
   OLDHIST.OJOB(10,1,39)=WEEK(4,17,88);       OLDHIST.OJOB(10,1,40)=WEEK(4,24,88);
   OLDHIST.OJOB(10,1,41)=10;
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end;
if ID=6694 then do;
  OLDHIST.OJOB(10,1,39)=WEEK(1,02,88);          OLDHIST.OJOB(10,1,40)=WEEK(12,06,88);
  OLDHIST.OJOB(10,1,41)= 2;                     OLDHIST.OJOB(10,1,42)=2;
  OLDHIST.OJOB(10,1,43)=10;
end;
if ID=7205 then do;
  OLDHIST.OJOB(10,1,39)=WEEK(10,30,87);         OLDHIST.OJOB(10,1,40)=WEEK(2,24,88);
  OLDHIST.OJOB(10,1,41)= 4;                     OLDHIST.OJOB(10,1,42)=1;
  OLDHIST.OJOB(10,1,43)=1 ;
end;
if ID=8329 then do;
  OLDHIST.OJOB(10,2,39)=WEEK(10,18,87);         OLDHIST.OJOB(10,2,40)=WEEK(10,30,87);
  OLDHIST.OJOB(10,2,41)= 4;                     OLDHIST.OJOB(10,2,42)=1;
  OLDHIST.OJOB(10,2,43)=13;
end;
if ID=9789 then do;
  OLDHIST.OJOB(10,2,39)=WEEK(9,20,87);          OLDHIST.OJOB(10,2,40)=WEEK(9,30,87);
  OLDHIST.OJOB(10,2,41)=10;
end;
if ID=10280 then do;
  OLDHIST.OJOB(10,2,39)=WEEK(8,1,88);           OLDHIST.OJOB(10,2,40)=WEEK(8,8,88);
  OLDHIST.OJOB(10,2,41)= 6;
end;
if ID=12520 then do;
  OLDHIST.OJOB(10,1,39)=WEEK(2,14,88);          OLDHIST.OJOB(10,1,40)=WEEK(2,22,88);
  OLDHIST.OJOB(10,1,41)= 4;                     OLDHIST.OJOB(10,1,42)=1;
  OLDHIST.OJOB(10,1,43)=10;
end;
/*** end fix of fourth gap for 1988 ***/


/* corrections made to tenure variables (first 5 jobs), for 1987 and 1988; */
/* corrections made to hours worked per week (incl home hrs) for first 5 jobs in 1988;     */
/* addition of jobs ever held key variable for 1979-1988                */

read file (FIXVAR) into (FIXER);
kountfix=kountfix+1;
OLDHIST.OJOB(9,1,46)=TENUR(1);                  OLDHIST.OJOB(9,2,46)=TENUR(2);
OLDHIST.OJOB(9,3,46)=TENUR(3);                  OLDHIST.OJOB(9,4,46)=TENUR(4);
OLDHIST.OJOB(9,5,46)=TENUR(5);                  OLDHIST.OJOB(10,1,46)=TENUR(6);
OLDHIST.OJOB(10,2,46)=TENUR(7);                 OLDHIST.OJOB(10,3,46)=TENUR(8);
OLDHIST.OJOB(10,4,46)=TENUR(9);                 OLDHIST.OJOB(10,5,46)=TENUR(10);
if ID=709  then OLDHIST.OJOB(10,1,46)=1;        if ID=709 then OLDHIST.OJOB(10,5,46)=-3;
if ID=3019 then OLDHIST.OJOB(10,3,46)=446;      if ID=4429 then OLDHIST.OJOB(9,1,46)=82;
if ID=4229 then OLDHIST.OJOB(10,1,46)=148;      if ID=4718 then OLDHIST.OJOB(9,1,46)=311;
if ID=43   then OLDHIST.OJOB(9,6,46)=129;
if ID=1044 then do;
   OLDHIST.OJOB(10,6,46)=22;          OLDHIST.OJOB(10,7,46)=8;
end;
if ID=1106 then do;
  OLDHIST.OJOB(9,7,46)=47;            OLDHIST.OJOB(10,6,46)=21;
end;
if ID=1326 then OLDHIST.OJOB(9,6,46)=68;        if ID=1695 then OLDHIST.OJOB(10,6,46)=9;
if ID=2057 then OLDHIST.OJOB(10,6,46)=30;       if ID=2626 then OLDHIST.OJOB(9,6,46)=65;
if ID=2802 then OLDHIST.OJOB(10,10,46)=13; if ID=3019 then OLDHIST.OJOB(9,6,46)=392;
if ID=3157 then OLDHIST.OJOB(9,7,46)=10;        if ID=3218 then OLDHIST.OJOB(10,6,46)=34;
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if ID=3236 then OLDHIST.OJOB(10,6,46)=6;        if ID=3771 then OLDHIST.OJOB(10,6,46)=258;
if ID=3788 then OLDHIST.OJOB(10,6,46)=253; if ID=3920 then OLDHIST.OJOB(10,9,46)=11;
if ID=3994 then OLDHIST.OJOB(10,6,46)=17;       if ID=4706 then OLDHIST.OJOB(10,7,46)=9;
if ID=5173 then OLDHIST.OJOB(10,6,46)=63;       if ID=5932 then OLDHIST.OJOB(9,6,46)=24;
if ID=6981 then OLDHIST.OJOB(9,6,46)=26;        if ID=7024 then OLDHIST.OJOB(9,8,46)=85;
if ID=7485 then OLDHIST.OJOB(9,7,46)=10;        if ID=7589 then OLDHIST.OJOB(9,6,46)=77;
if ID=7879 then do;
   OLDHIST.OJOB(10,6,46)=50;            OLDHIST.OJOB(10,7,46)=75;
end;
if ID=8307 then OLDHIST.OJOB(10,6,46) =37; if ID=8331 then OLDHIST.OJOB(9,7,46)  =6;
if ID=8436 then OLDHIST.OJOB(10,7,46) =29; if ID=8690 then OLDHIST.OJOB(10,6,46) =13;
if ID=8945 then OLDHIST.OJOB(10,6,46) =144; if ID=9105 then OLDHIST.OJOB(9,6,46)  =62;
if ID=9187 then OLDHIST.OJOB(10,6,46) =40; if ID=9759 then OLDHIST.OJOB(9,6,46)  =17;
if ID=9798 then OLDHIST.OJOB(10,6,46) =33; if ID=10133 then OLDHIST.OJOB(9,7,46) =136;
if ID=11441 then OLDHIST.OJOB(10,6,46)=40; if ID=11834 then OLDHIST.OJOB(10,6,46)=8;
if ID=11882 then do;
   OLDHIST.OJOB(9,6,46)=18;            OLDHIST.OJOB(9,7,46)=49;
end;
if ID=12038 then OLDHIST.OJOB(9,6,46)=57; if ID=12485 then OLDHIST.OJOB(10,6,46)=74;
OLDHIST.OJOB(10,1,13)=HOURSWK(1);            OLDHIST.OJOB(10,2,13)=HOURSWK(2);
OLDHIST.OJOB(10,3,13)=HOURSWK(3);            OLDHIST.OJOB(10,4,13)=HOURSWK(4);
OLDHIST.OJOB(10,5,13)=HOURSWK(5);
OJOBEVER(1)=JOBSEV(1);   OJOBEVER(2)=JOBSEV(2);
OJOBEVER(3)=JOBSEV(3);   OJOBEVER(4)=JOBSEV(4);
OJOBEVER(5)=JOBSEV(5);   OJOBEVER(6)=JOBSEV(6);
OJOBEVER(7)=JOBSEV(7);   OJOBEVER(8)=JOBSEV(8);
OJOBEVER(9)=JOBSEV(9);   OJOBEVER(10)=JOBSEV(10);

do I = 1 to (NEWYEAR-1);
  if OLDHIST.OWT(I)=-5 then OLDHIST.OWT(I)= 0;
  if OLDHIST.OWT(I)=0  then OJOBEVER(I)=-5;
end;
/* end updates and additions for tenure, hoursworked and jobs ever held for 1987, 1988 and 1989    */

read file (VARSNYR) into (VARYR);
kountnew=kountnew+1;
NORCID   = X(  1);          /* case identification number            */
Q3049   = X(  8);          /* military status at last interview       */
Q0746   = X( 271);          /* R serving in military at last interview    */
Q0752   = X( 276);          /* is R currently in the active forces  (curamil) */
Q0773   = X( 290);          /* when sworn in,did R enter active forces?(curamil) */
Q0753   = X( 277);          /* month R separated from armed srvc branch   */
Q0755   = X( 278);          /* year R separated from armed srvcs branch   */
Q0758   = X( 280);          /* day of separation               */
Q0764   = X( 284);          /* branch R sworn into             */
Q0768   = X( 287);          /* R currently serving most recent branch     */
Q0769   = X( 288);          /* month R entered most recent branch       */
Q0771   = X( 289);          /* year R entered most recent branch        */
Q0774   = X( 291);          /* day R entered active forces          */
Q0810   = X( 292);          /* did R serve any time on active duty?      */
Q0811   = X( 293);          /* mo_ entered active-not currently serving   */
Q0813   = X( 294);          /* day entered active-not currently serving   */
Q0815   = X( 295);          /* yr R entered active-not currntly serving   */
Q0818   = X( 297);          /* month separated from military           */
Q0820   = X( 298);          /* day R separated from military         */
Q0822   = X( 299);          /* year R separated from the military       */
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Q1042   = X( 376);            /* type of industry worked for          */
Q1045   = X( 377);            /* type of work doing last week         */
Q1055   = X( 381);            /* category of industry R worked for    */
Q1058   = X( 384);            /* number of hours per week usually work */
Q1063   = X( 387);            /* num hrs/wk worked at job-home hrs incl */
Q1223   = X(1104);            /* month began most recnt non-emplymnt per_ */
Q1225   = X(1105);            /* day began most recent non-employmnt per_ */
Q1227   = X(1106);            /* year began most recent non-employmnt per_ */
Q1229   = X(1107);            /* month ended most recent non-employmnt per_ */
Q1231   = X(1108);            /* day ended most recent non-employmnt per_ */
Q1233   = X(1109);            /* year ended most recent non-employmnt per_ */
Q1235   = X(1110);            /* period 1:# weeks looking for work,layoff */
Q1245   = X(1114);            /* period1 number of weeks looking,layoff */
Q1251   = X(1116);            /* period1 reason not looking           */
Q1254   = X(1118);            /* month began 2nd recnt non-emplymnt per_ */
Q1256   = X(1119);            /* day began 2nd recent non-employmnt per_ */
Q1258   = X(1120);            /* year R began 2nd recnt non-emplymnt per_ */
Q1260   = X(1121);            /* month ended 2nd recent non-emplymnt per_ */
Q1262   = X(1122);            /* day ended 2nd recent non-emplymnt per_ */
Q1264   = X(1123);            /* year ended 2nd recent non-emplymnt per_ */
Q1266   = X(1124);            /* period 2:# weeks looking for work,layoff */
Q1310   = X(1128);            /* period2 number of weeks looking,layoff */
Q1316   = X(1130);            /* period2 reason not looking           */
Q1319   = X(1132);            /* month began 3rd recent non-emplymnt per_ */
Q1321   = X(1133);            /* day began 3rd recent non-employment per_ */
Q1323   = X(1134);            /* year began 3rd recent non-employmnt per_ */
Q1325   = X(1135);            /* month ended 3rd recent non-emplymnt per_ */
Q1327   = X(1136);            /* day ended 3rd recent non-employment per_ */
Q1329   = X(1137);            /* year ended 3rd recent non-employmnt per_ */
Q1331   = X(1138);            /* period 3:# weeks looking for work,layoff */
Q1341   = X(1142);            /* period3 number of weeks looking,layoff */
Q1347   = X(1144);            /* period3 reason not looking           */
Q1350   = X(1146);            /* month began 4th recent non-emplymnt per_ */
Q1352   = X(1147);            /* day began 4th recent non-employment per_ */
Q1354   = X(1148);            /* year began 4th recent non-emplymnt per_ */
Q1356   = X(1149);            /* month ended 4th recent non-emplymnt per_ */
Q1358   = X(1150);            /* day ended 4th recent non-employment per_ */
Q1360   = X(1151);            /* year ended 4th recent non-employmnt per_ */
Q1362   = X(1152);            /* period 4:# weeks looking for work,layoff */
Q1372   = X(1156);            /* period4 number of weeks looking,layoff */
Q1378   = X(1158);            /* period4 reason not looking           */
Q2813   = X(1698);            /* month of interview                   */
Q2815   = X(1699);            /* day of interview                     */
QB145   = X( 450);            /* employer # from item  7              */
QB152   = X( 456);            /* employer # from item  8              */
QB160   = X( 460);            /* code for date in question 3 (esb_3)  */
QB162   = X( 462);            /* tot mnths wrking before date last intrvw */
QB164   = X( 463);            /* month last interview                 */
QB166   = X( 464);            /* day   last interview                 */
QB168   = X( 465);            /* year  last interview                 */
QB170   = X( 466);            /* currently working for this employer  */
QB171   = X( 467);            /* month R stopped working for employer */
QB173   = X( 468);            /* day R stopped working for employer   */
QB175   = X( 469);            /* year R stopped working for employer  */
QB177   = X( 470);            /* reason R happened to leave this job  */
QB227   = X( 480);            /* periods of week/more not working     */
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QB230  = X( 482);        /* begin month gap within job period 1      */
QB232  = X( 483);        /* begin day gap within job period 1        */
QB234  = X( 484);        /* begin year gap within job period 1       */
QB236  = X( 485);        /* ending month gap within job period 1     */
QB238  = X( 486);        /* ending day gap within job period 1       */
QB240  = X( 487);        /* ending year gap within job period 1      */
QB242  = X( 488);        /* reason not working                       */
QB244  = X( 489);        /* R looking for wrk some,none,or all weeks */
QB254  = X( 493);        /* # of wks looking for work or on layoff   */
QB263  = X( 497);        /* begin month gap within job period 2      */
QB265  = X( 498);        /* begin day gap within job period 2        */
QB267  = X( 499);        /* begin year gap within job period 2       */
QB269  = X( 500);        /* ending month gap within job period 2     */
QB271  = X( 501);        /* ending day gap within job period 2       */
QB273  = X( 502);        /* ending year gap within job period 2      */
QB275  = X( 503);        /* reason not working                       */
QB277  = X( 504);        /* R looking for wrk some,none,or all weeks */
QB319  = X( 508);        /* # of wks looking or on layoff period 2   */
QB328  = X( 512);        /* begin month gap within job period 3      */
QB330  = X( 513);        /* begin day gap within job period 3        */
QB332  = X( 514);        /* begin year gap within job period 3       */
QB334  = X( 515);        /* ending month gap within job period 3     */
QB336  = X( 516);        /* ending day gap within job period 3       */
QB338  = X( 517);        /* ending year gap within job period 3      */
QB340  = X( 518);        /* reason not working                       */
QB342  = X( 519);        /* R looking for wrk some,none,or all weeks */
QB352  = X( 523);        /* # of wks looking or on layoff period 3   */
QB422  = X( 542);        /* nmbr of hours/day R worked at this job   */
QB424  = X( 543);        /* is this employer recorded in Q_24 sec 5  */
QB425  = X( 544);        /* number of hrs/week R worked at this job  */
QB430  = X( 547);        /* num hrs/wk worked at job-home hrs incl   */
QB432  = X( 548);        /* R wk 10 hr or more a wk?                 */
QB434  = X( 550);        /* R's occupation code                     */
QB437  = X( 551);        /* R's industry code                       */
QB440  = X( 552);        /* R's employment category                 */
QB443  = X( 555);        /* amt R was paid including tips,bonus,etc_ */
QB449  = X( 556);        /* amount paid - cents, job #1             */
QB451  = X( 557);        /* pay period for R on job                 */
QB471  = X( 566);        /* R work less than 10 hrs-wk at this job  */
QB473  = X( 568);        /* R's wages set by collective bargaining  */
QB474  = X( 569);        /* is/was R a member of a union/emp assctn */
QC145  = X( 581);        /* employer # from item  7                 */
QC152  = X( 587);        /* employer # from item  8                 */
QC160  = X( 591);        /* code for date in question 3 (esc_3)     */
QC162  = X( 593);        /* tot mnths wrking before date last intrvw */
QC164  = X( 594);        /* month last interview                    */
QC166  = X( 595);        /* day   last interview                    */
QC168  = X( 596);        /* year  last interview                    */
QC170  = X( 597);        /* currently working for this employer     */
QC171  = X( 598);        /* month R stopped working for employer    */
QC173  = X( 599);        /* day R stopped working for employer      */
QC175  = X( 600);        /* year R stopped working for employer     */
QC177  = X( 601);        /* reason R happened to leave this job     */
QC227  = X( 611);        /* periods of week/more not working        */
QC230  = X( 613);        /* begin month gap within job period 1     */
QC232  = X( 614);        /* begin day gap within job period 1       */
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QC234   = X( 615);          /* begin year gap within job period 1        */
QC236   = X( 616);          /* ending month gap within job period 1        */
QC238   = X( 617);          /* ending day gap within job period 1        */
QC240   = X( 618);          /* ending year gap within job period 1        */
QC242   = X( 619);          /* reason not working                    */
QC244   = X( 620);          /* R looking for wrk some,none,or all weeks    */
QC254   = X( 624);          /* # of wks looking for work or on layoff     */
QC263   = X( 628);          /* begin month gap within job period 2        */
QC265   = X( 629);          /* begin day gap within job period 2         */
QC267   = X( 630);          /* begin year gap within job period 2         */
QC269   = X( 631);          /* ending month gap within job period 2        */
QC271   = X( 632);          /* ending day gap within job period 2         */
QC273   = X( 633);          /* ending year gap within job period 2         */
QC275   = X( 634);          /* reason not working                    */
QC277   = X( 635);          /* R looking for wrk some,none,or all weeks    */
QC319   = X( 639);          /* # of wks looking or on layoff period 2      */
QC328   = X( 643);          /* begin month gap within job period 3        */
QC330   = X( 644);          /* begin day gap within job period 3         */
QC332   = X( 645);          /* begin year gap within job period 3         */
QC334   = X( 646);          /* ending month gap within job period 3        */
QC336   = X( 647);          /* ending day gap within job period 3         */
QC338   = X( 648);          /* ending year gap within job period 3         */
QC340   = X( 649);          /* reason not working                    */
QC342   = X( 650);          /* R looking for wrk some,none,or all weeks    */
QC352   = X( 654);          /* # of wks looking or on layoff period 3      */
QC422   = X( 673);          /* nmbr of hours/day R worked at this job     */
QC424   = X( 674);          /* is this employer recorded in Q_24 sec 5    */
QC425   = X( 675);          /* number of hrs/week R worked at this job     */
QC430   = X( 678);          /* num hrs/wk worked at job-home hrs incl    */
QC434   = X( 681);          /* R's occupation code                    */
QC437   = X( 682);          /* R's industry code                     */
QC440   = X( 683);          /* R's employment category                */
QC443   = X( 686);          /* amt R was paid including tips,bonus,etc_    */
QC449   = X( 687);          /* amount paid - cents, job #2            */
QC451   = X( 688);          /* pay period for R on job                */
QC473   = X( 699);          /* R's wages set by collective bargaining     */
QC474   = X( 700);          /* is/was R a member of a union/emp assctn    */
QD145   = X( 712);          /* employer # from item  7              */
QD152   = X( 718);          /* employer # from item  8              */
QD160   = X( 722);          /* code for date in question 3 (esd_3)      */
QD162   = X( 724);          /* tot mnths wrking before date last intrvw   */
QD164   = X( 725);          /* month last interview                 */
QD166   = X( 726);          /* day   last interview                 */
QD168   = X( 727);          /* year  last interview                 */
QD170   = X( 728);          /* currently working for this employer      */
QD171   = X( 729);          /* month R stopped working for employer     */
QD173   = X( 730);          /* day R stopped working for employer      */
QD175   = X( 731);          /* year R stopped working for employer      */
QD177   = X( 732);          /* reason R happened to leave this job      */
QD227   = X( 742);          /* periods of week/more not working        */
QD230   = X( 744);          /* begin month gap within job period 1       */
QD232   = X( 745);          /* begin day gap within job period 1        */
QD234   = X( 746);          /* begin year gap within job period 1        */
QD236   = X( 747);          /* ending month gap within job period 1       */
QD238   = X( 748);          /* ending day gap within job period 1        */
QD240   = X( 749);          /* ending year gap within job period 1       */
```

```
QD242   = X( 750);          /* reason not working                 */
QD244   = X( 751);          /* R looking for wrk some,none,or all weeks   */
QD254   = X( 755);          /* # of wks looking for work or on layoff    */
QD263   = X( 759);          /* begin month gap within job period 2       */
QD265   = X( 760);          /* begin day gap within job period 2         */
QD267   = X( 761);          /* begin year gap within job period 2        */
QD269   = X( 762);          /* ending month gap within job period 2      */
QD271   = X( 763);          /* ending day gap within job period 2        */
QD273   = X( 764);          /* ending year gap within job period 2       */
QD275   = X( 765);          /* reason not working                 */
QD277   = X( 766);          /* R looking for wrk some,none,or all weeks   */
QD319   = X( 770);          /* # of wks looking or on layoff period 2    */
QD328   = X( 774);          /* begin month gap within job period 3       */
QD330   = X( 775);          /* begin day gap within job period 3         */
QD332   = X( 776);          /* begin year gap within job period 3        */
QD334   = X( 777);          /* ending month gap within job period 3      */
QD336   = X( 778);          /* ending day gap within job period 3        */
QD338   = X( 779);          /* ending year gap within job period 3       */
QD340   = X( 780);          /* reason not working                 */
QD342   = X( 781);          /* R looking for wrk some,none,or all weeks   */
QD352   = X( 785);          /* # of wks looking or on layoff period 3    */
QD422   = X( 804);          /* nmbr of hours/day R worked at this job    */
QD424   = X( 805);          /* is this employer recorded in Q_24 sec 5   */
QD425   = X( 806);          /* number of hrs/week R worked at this job   */
QD430   = X( 809);          /* num hrs/wk worked at job-home hrs incl    */
QD434   = X( 812);          /* R's occupation code                */
QD437   = X( 813);          /* R's industry code                  */
QD440   = X( 814);          /* R's employment category            */
QD443   = X( 817);          /* amt R was paid including tips,bonus,etc_  */
QD449   = X( 818);          /* amount paid - cents, job #3         */
QD451   = X( 819);          /* pay period for R on job            */
QD473   = X( 830);          /* R's wages set by collective bargaining    */
QD474   = X( 831);          /* is/was R a member of a union/emp assctn   */
QE145   = X( 843);          /* employer # from item  7            */
QE152   = X( 849);          /* employer # from item  8            */
QE160   = X( 853);          /* code for date in question 3 (ese_3)      */
QE162   = X( 855);          /* tot mnths wrking before date last intrvw  */
QE164   = X( 856);          /* month last interview               */
QE166   = X( 857);          /* day   last interview               */
QE168   = X( 858);          /* year  last interview               */
QE170   = X( 859);          /* currently working for this employer      */
QE171   = X( 860);          /* month R stopped working for employer     */
QE173   = X( 861);          /* day R stopped working for employer       */
QE175   = X( 862);          /* year R stopped working for employer      */
QE177   = X( 863);          /* reason R happened to leave this job      */
QE227   = X( 873);          /* periods of week/more not working         */
QE230   = X( 875);          /* begin month gap within job period 1      */
QE232   = X( 876);          /* begin day gap within job period 1        */
QE234   = X( 877);          /* begin year gap within job period 1       */
QE236   = X( 878);          /* ending month gap within job period 1     */
QE238   = X( 879);          /* ending day gap within job period 1       */
QE240   = X( 880);          /* ending year gap within job period 1      */
QE242   = X( 881);          /* reason not working                 */
QE244   = X( 882);          /* R looking for wrk some,none,or all weeks   */
QE254   = X( 886);          /* # of wks looking for work or on layoff    */
QE263   = X( 890);          /* begin month gap within job period 2       */
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```
QE265   = X( 891);        /* begin day gap within job period 2        */
QE267   = X( 892);        /* begin year gap within job period 2       */
QE269   = X( 893);        /* ending month gap within job period 2      */
QE271   = X( 894);        /* ending day gap within job period 2       */
QE273   = X( 895);        /* ending year gap within job period 2       */
QE275   = X( 896);        /* reason not working                  */
QE277   = X( 897);        /* R looking for wrk some,none,or all weeks   */
QE319   = X( 901);        /* # of wks looking or on layoff period 2     */
QE328   = X( 905);        /* begin month gap within job period 3       */
QE330   = X( 906);        /* begin day gap within job period 3        */
QE332   = X( 907);        /* begin year gap within job period 3       */
QE334   = X( 908);        /* ending month gap within job period 3      */
QE336   = X( 909);        /* ending day gap within job period 3       */
QE338   = X( 910);        /* ending year gap within job period 3       */
QE340   = X( 911);        /* reason not working                  */
QE342   = X( 912);        /* R looking for wrk some,none,or all weeks   */
QE352   = X( 916);        /* # of wks looking or on layoff period 3     */
QE422   = X( 935);        /* nmbr of hours/day R worked at this job    */
QE424   = X( 936);        /* is this employer recorded in Q_24 sec 5   */
QE425   = X( 937);        /* number of hrs/week R worked at this job    */
QE430   = X( 940);        /* num hrs/wk worked at job-home hrs incl    */
QE434   = X( 943);        /* R's occupation code                  */
QE437   = X( 944);        /* R's industry code                   */
QE440   = X( 945);        /* R's employment category               */
QE443   = X( 948);        /* amt R was paid including tips,bonus,etc_   */
QE449   = X( 949);        /* amount paid - cents, job #4            */
QE451   = X( 950);        /* pay period for R on job               */
QE473   = X( 961);        /* R's wages set by collective bargaining    */
QE474   = X( 962);        /* is/was R a member of a union/emp assctn    */
QF145   = X( 974);        /* employer # from item  7              */
QF152   = X( 980);        /* employer # from item  8              */
QF160   = X( 984);        /* code for date in question 3 (esf_3)      */
QF162   = X( 986);        /* tot mnths wrking before date last intrvw   */
QF164   = X( 987);        /* month last interview                 */
QF166   = X( 988);        /* day   last interview                */
QF168   = X( 989);        /* year  last interview                */
QF170   = X( 990);        /* currently working for this employer      */
QF171   = X( 991);        /* month R stopped working for employer      */
QF173   = X( 992);        /* day R stopped working for employer       */
QF175   = X( 993);        /* year R stopped working for employer      */
QF177   = X( 994);        /* reason R happened to leave this job      */
QF227   = X(1004);        /* periods of week/more not working        */
QF230   = X(1006);        /* begin month gap within job period 1      */
QF232   = X(1007);        /* begin day gap within job period 1       */
QF234   = X(1008);        /* begin year gap within job period 1       */
QF236   = X(1009);        /* ending month gap within job period 1      */
QF238   = X(1010);        /* ending day gap within job period 1       */
QF240   = X(1011);        /* ending year gap within job period 1       */
QF242   = X(1012);        /* reason not working                  */
QF244   = X(1013);        /* R looking for wrk some,none,or all weeks   */
QF254   = X(1017);        /* # of wks looking for work or on layoff    */
QF263   = X(1021);        /* begin month gap within job period 2      */
QF265   = X(1022);        /* begin day gap within job period 2       */
QF267   = X(1023);        /* begin year gap within job period 2       */
QF269   = X(1024);        /* ending month gap within job period 2      */
QF271   = X(1025);        /* ending day gap within job period 2       */
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QF273   = X(1026);          /* ending year gap within job period 2      */
QF275   = X(1027);          /* reason not working                 */
QF277   = X(1028);          /* R looking for wrk some,none,or all weeks   */
QF319   = X(1032);          /* # of wks looking or on layoff period 2     */
QF328   = X(1036);          /* begin month gap within job period 3        */
QF330   = X(1037);          /* begin day gap within job period 3        */
QF332   = X(1038);          /* begin year gap within job period 3        */
QF334   = X(1039);          /* ending month gap within job period 3      */
QF336   = X(1040);          /* ending day gap within job period 3        */
QF338   = X(1041);          /* ending year gap within job period 3       */
QF340   = X(1042);          /* reason not working                */
QF342   = X(1043);          /* R looking for wrk some,none,or all weeks   */
QF352   = X(1047);          /* # of wks looking or on layoff period 3     */
QF422   = X(1066);          /* nmbr of hours/day R worked at this job     */
QF424   = X(1067);          /* is this employer recorded in Q_24 sec 5    */
QF425   = X(1068);          /* number of hrs/week R worked at this job    */
QF430   = X(1071);          /* num hrs/wk worked at job-home hrs incl     */
QF434   = X(1074);          /* R's occupation code              */
QF437   = X(1075);          /* R's industry code               */
QF440   = X(1076);          /* R's employment category           */
QF443   = X(1079);          /* amt R was paid including tips,bonus,etc_   */
QF449   = X(1080);          /* amount paid - cents, job #5          */
QF451   = X(1081);          /* pay period for R on job            */
QF473   = X(1092);          /* R's wages set by collective bargaining     */
QF474   = X(1093);          /* is/was R a member of a union/emp assctn    */
PUBID   = X(1738);          /* public ID                    */
WT89    = X(1739);          /* weight for 89                 */
WHRACE  = X(1740);
WHSEX   = X(1741);


/*  rewrites to 1989 data tape */
if ID=3265 then Q0752=0;                    if ID=9030 then Q1045=-3;
if ID=2918  then Q1055=2;                   if ID=6719  then Q1063=-4;
if ID=4648 | ID=6827 then QB227=1;          if QB443=999997 then QB443=-1;
if QB443=999998 then QB443=-2;              if QB443=999999 then QB443=-3;
if (QB471 = 1 & QB432 ^= 1 & Q1055 ^= 3) then QB473=-3;
if (QB471 = 1 & QB432 ^= 1 & Q1055 ^= 3) then QB474=-3;
if ID=2258 then QC164=11;                   if ID=2258 then QC166=1;
if QC443=999997 then QC443=-1;              if QC443=999998 then QC443=-2;
if QC443=999999 then QC443=-3;
if ID=619 | ID=1659 | ID=2182 | ID=2881 | ID=3502 | ID=3889 | ID=5376 | ID=7164 | ID=7645
   | ID=8001 | ID=8382 | ID=8785 | ID=11014 | ID=11892 | ID=11971 then QC473=-3;
if ID=6697 | ID=8668  then QC473=-1;
if ID=619 | ID=1659 | ID=2182 | ID=2881 | ID=3502 | ID=3889 | ID=5376 | ID=7164 | ID=7645
   | ID=8001 | ID=8382 | ID=8785 | ID=11014 | ID=11892 | ID=11971  then QC474=-3;
if QD443=999997 then QD443=-1;              if QD443=999998 then QD443=-2;
if QD443=999999 then QD443=-3;              if QE443=999997 then QE443=-1;
if QE443=999998 then QE443=-2;              if QE443=999999 then QE443=-3;
if QF443=999997 then QF443=-1;              if QF443=999998 then QF443=-2;
if QF443=999999 then QF443=-3;
if ID=1172 then Q1235=2;
if ID=2258 then do;
   Q1235=1; Q1245=-4; Q1251=15; Q1254=9; Q1256=29; Q1258=88;
   Q1260=10; Q1262=31; Q1264=88; Q1266=1; Q1316=13; end;
if ID=218 | ID=8001 | ID=1135 | ID=1188 | ID=1659 | ID=1662 | ID=2352 | ID=2881 | ID=2933 | ID=3380 |
       ID=3547 | ID=3689 | ID=4233 | ID=4485 | ID=5072 | ID=6023 | ID=6370 | ID=6974 | ID=7173 |
```

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          ID=7418 | ID=7645 | ID=7997 | ID=8191 | ID=8382 | ID=8634 | ID=8942 | ID=9096 | ID=9766 |
          ID=9886 | ID=9983 | ID=10084 | ID=10164 | ID=10249 | ID=11014 | ID=11892 | ID=11971 | ID=12070
          then do;
   QC424=0; QC425=-3; QC430=-3; QC434=-3; QC437=-3; QC440=-3;
 end;
if ID=826 | ID=1556 | ID=2328 | ID=2481 | ID=2773 | ID=6809  then do;
    QE424=0; QE425=-3; QE430=-3; QE434=-3; QE437=-3; QE440=-3;
  end;
if ID=1483 | ID=1586 | ID=2481 | ID=3056 | ID=4879 | ID=6786 | ID=8001 | ID=8266 |
  ID=9216 | ID=12253  then do;
    QD424=0; QD425=-3; QD430=-3; QD434=-3; QD437=-3; QD440=-3;
  end;
  if QB443 = 999996 then QB443 = -3;
   else if QB443>=0 then do;
    if QB449=-3 then QB443=QB443*100 + 99;
    else if QB449=-2 then QB443=QB443*100 + 98;
    else if QB449=-1 then QB443=QB443*100 + 97;
    else if QB449>=0 then QB443=QB443*100 + QB449;
    else QB443=-3;
    end;
   else QB443=QB449;
   QB449=-4;
 if QB443 > 9999999 then do;
  put skip edit (NORCID,QB443,QB449) (F(10));
  QB443=9999995;
 end;


 if QC443 = 999996 then QC443 = -3;
  else if QC443>=0 then do;
   if QC449=-3 then QC443=QC443*100 + 99;
   else if QC449=-2 then QC443=QC443*100 + 98;
   else if QC449=-1 then QC443=QC443*100 + 97;
   else if QC449>=0 then QC443=QC443*100 + QC449;
   else QC443=-3;
  end;
 else QC443=QC449;
 QC449=-4;
if QC443 > 9999999 then do;
 put skip edit (NORCID,QC443,QC449) (F(10));
 QC443=9999995;
end;

 if QD443 = 999996 then QD443 = -3;
  else if QD443>=0 then do;
   if QD449=-3 then QD443=QD443*100 + 99;
   else if QD449=-2 then QD443=QD443*100 + 98;
   else if QD449=-1 then QD443=QD443*100 + 97;
   else if QD449>=0 then QD443=QD443*100 + QD449;
   else QD443=-3;
  end;
 else QD443=QD449;
 QD449=-4;
if QD443 > 9999999 then do;
 put skip edit (NORCID,QD443,QD449) (F(10));
 QD443=9999995;
end;
```

```
 if QE443 = 999996 then QE443 = -3;
 else if QE443>=0 then do;
    if QE449=-3 then QE443=QE443*100 + 99;
    else if QE449=-2 then QE443=QE443*100 + 98;
    else if QE449=-1 then QE443=QE443*100 + 97;
    else if QE449>=0 then QE443=QE443*100 + QE449;
    else QE443=-3;
 end;
 else QE443=QE449;
 QE449=-4;
 if QE443 > 9999999 then do;
   put skip edit (NORCID,QE443,QE449) (F(10));
   QE443=9999995;
 end;

 if QF443 = 999996 then QF443 = -3;
 else if QF443>=0 then do;
   if QF449=-3 then QF443=QF443*100 + 99;
   else if QF449=-2 then QF443=QF443*100 + 98;
   else if QF449=-1 then QF443=QF443*100 + 97;
   else if QF449>=0 then QF443=QF443*100 + QF449;
   else QF443=-3;
 end;
 else QF443=QF449;
 QF449=-4;
 if QF443 > 9999999 then do;
   put skip edit (NORCID,QF443,QF449) (F(10));
   QF443=9999995;
 end;
/* end rewrite to 1989 data tape */

 if PUBID ^= INFO(1) then do;
   put file (sysprint) edit ('error IDS do NOT MATCH. PUBID=', PUBID,'   INFO(1)ID=',INFO(1))
                    (skip(1),A,F(5),skip(1),A,F(5));
   go to done;
 end;
 else do;
  PR=1;
  do J=2 to NEWYEAR-1;
    if OLDHIST(J).OWT > 0 then PR=J;
  end;
  WORK_HISTORY(NEWYEAR)=-4;
  CPS_HOURLYWAGE(NEWYEAR)=-4;
  if WT89 < 0 then WT89 = 0;
  WEIGHT(NEWYEAR)=WT89;
  if WEIGHT(NEWYEAR)=0 then do;
    CPS_HOURLYWAGE(NEWYEAR)=-5;
    WORK_HISTORY(NEWYEAR)=-5;
    WEIGHT(NEWYEAR)=0
    WTZERO=WTZERO+1;
  end;
  else do;
    call NEWVARIABLES;     /* read addjob variables */
    call CALC(NEWYEAR);
    call SUMMER(NEWYEAR);
```

```
  do I = 1 to 5;  /** compute cps hourly wage **/
    if CPSJOB(NEWYEAR,I)=1 then CPS_HOURLYWAGE(NEWYEAR) =
      HOURLYWAGE(NEWYEAR,I);
  end;

  /*** compute current jobever() ***/
  JOBEVER(NEWYEAR)=0;          /* find greatest job cnt in hold hist */
  do I = (NEWYEAR-1) to 1 by -1 WHILE(JOBEVER(NEWYEAR)=0);
    if OJOBEVER(I)= -3 then JOBEVER(NEWYEAR)=-3;
    else if OJOBEVER(I)>0 then JOBEVER(NEWYEAR)= OJOBEVER(I);
  end;
  if JOBEVER(NEWYEAR)>=0 then do; /* add any additional jobs ?        */
    do I=1 to 10;
      if NUMBER(NEWYEAR,I)>100 & (PREVIOUSEMP#(NEWYEAR,I)=-3 |
        PREVIOUSEMP#(NEWYEAR,I)=0) then JOBEVER(NEWYEAR)=-3;
      else if NUMBER(NEWYEAR,I)>100 & PREVIOUSEMP#(NEWYEAR,I)=-4 then
        JOBEVER(NEWYEAR)=JOBEVER(NEWYEAR)+1;
    end;
  end;
end;

SEX  = WHSEX;     RACE = WHRACE;

write file(NEWXVAR) from (XVARS);
kount_XVR=kount_XVR+1;
write file(NEWWORK) from (VARIABLES);
kount_out=kount_out+1;
put file(OUTDISK) edit (
  ID,MILWKSL(NEWYEAR),MILWKSC(NEWYEAR),WORKC(NEWYEAR),
      HOURC(NEWYEAR),WUMPC(NEWYEAR),WOLFC(NEWYEAR),MISSC(NEWYEAR),
      WORKL(NEWYEAR),HOURL(NEWYEAR),WUMPL(NEWYEAR),WOLFL(NEWYEAR),
      WBID(NEWYEAR),MISSL(NEWYEAR),CPS_HOURLYWAGE(NEWYEAR),
      HOURLYWAGE(NEWYEAR,1),HOURLYWAGE(NEWYEAR,2),
      HOURLYWAGE(NEWYEAR,3),HOURLYWAGE(NEWYEAR,4),
      HOURLYWAGE(NEWYEAR,5),JOBEVER(NEWYEAR))(COL(1),21(F(7)));
go to READ1;  /*** MAIN LOOP ***/
end;

1NEWVARIABLES:PROC;
dcl ADDJVBLS(769) float dec(6);
STARTM(NEWYEAR,1)=QB164;          STARTD(NEWYEAR,1)=QB166;
STARTY(NEWYEAR,1)=QB168;          STARTM(NEWYEAR,2)=QC164;
STARTD(NEWYEAR,2)=QC166;          STARTY(NEWYEAR,2)=QC168;
STARTM(NEWYEAR,3)=QD164;          STARTD(NEWYEAR,3)=QD166;
STARTY(NEWYEAR,3)=QD168;          STARTM(NEWYEAR,4)=QE164;
STARTD(NEWYEAR,4)=QE166;          STARTY(NEWYEAR,4)=QE168;
STARTM(NEWYEAR,5)=QF164;          STARTD(NEWYEAR,5)=QF166;
STARTY(NEWYEAR,5)=QF168;          STOPM(NEWYEAR,1)=QB171;
STOPD(NEWYEAR,1)=QB173;          STOPY(NEWYEAR,1)=QB175;
STOPM(NEWYEAR,2)=QC171;          STOPD(NEWYEAR,2)=QC173;
STOPY(NEWYEAR,2)=QC175;          STOPM(NEWYEAR,3)=QD171;
STOPD(NEWYEAR,3)=QD173;          STOPY(NEWYEAR,3)=QD175;
STOPM(NEWYEAR,4)=QE171;          STOPD(NEWYEAR,4)=QE173;
STOPY(NEWYEAR,4)=QE175;          STOPM(NEWYEAR,5)=QF171;
STOPD(NEWYEAR,5)=QF173;          STOPY(NEWYEAR,5)=QF175;
LASTINT(NEWYEAR)=
```

```
  CEIL(WEEK(OLDHIST(PR).OINTM,OLDHIST(PR).OINTD,OLDHIST(PR).OINTY)+1/7);
INT(NEWYEAR)=FLOOR(WEEK(Q2813,Q2815,SURVEY_YR));
INTM(NEWYEAR)=Q2813;
INTD(NEWYEAR)=Q2815;
 /* if int(newyear)=-3 then int(newyear)=-3; */
if WEIGHT(NEWYEAR)>0 then INTY(NEWYEAR)=SURVEY_YR;
HOURDAY(NEWYEAR,1)=QB422;        HOURDAY(NEWYEAR,2)=QC422;
HOURDAY(NEWYEAR,3)=QD422;        HOURDAY(NEWYEAR,4)=QE422;
HOURDAY(NEWYEAR,5)=QF422;
PAYRATE(NEWYEAR,1)=QB443;        PAYRATE(NEWYEAR,2)=QC443;
PAYRATE(NEWYEAR,3)=QD443;        PAYRATE(NEWYEAR,4)=QE443;
PAYRATE(NEWYEAR,5)=QF443;
TIMERATE(NEWYEAR,1)=QB451;       TIMERATE(NEWYEAR,2)=QC451;
TIMERATE(NEWYEAR,3)=QD451;       TIMERATE(NEWYEAR,4)=QE451;
TIMERATE(NEWYEAR,5)=QF451;
UNION(NEWYEAR,1)=QB473;          UNION(NEWYEAR,2)=QC473;
UNION(NEWYEAR,3)=QD473;          UNION(NEWYEAR,4)=QE473;
UNION(NEWYEAR,5)=QF473;
GOVTJOB(NEWYEAR,1)=-4;           GOVTJOB(NEWYEAR,2)=-4;
GOVTJOB(NEWYEAR,3)=-4;           GOVTJOB(NEWYEAR,4)=-4;
GOVTJOB(NEWYEAR,5)=-4;
if QB145>-4 then PREVIOUSEMP#(NEWYEAR,1)=QB145; else PREVIOUSEMP#(NEWYEAR,1)=QB152;
if QC145>-4 then PREVIOUSEMP#(NEWYEAR,2)=QC145; else PREVIOUSEMP#(NEWYEAR,2)=QC152;
if QD145>-4 then PREVIOUSEMP#(NEWYEAR,3)=QD145; else PREVIOUSEMP#(NEWYEAR,3)=QD152;
if QE145>-4 then PREVIOUSEMP#(NEWYEAR,4)=QE145; else PREVIOUSEMP#(NEWYEAR,4)=QE152;
if QF145>-4 then PREVIOUSEMP#(NEWYEAR,5)=QF145; else PREVIOUSEMP#(NEWYEAR,5)=QF152;
PRETEN(NEWYEAR,1)=QB162;         PRETEN(NEWYEAR,2)=QC162;
PRETEN(NEWYEAR,3)=QD162;         PRETEN(NEWYEAR,4)=QE162;
PRETEN(NEWYEAR,5)=QF162;
if QB164>-4 then do;
  START(NEWYEAR,1)=WEEK(QB164,QB166,QB168);
  STOP(NEWYEAR,1)=WEEK(QB171,QB173,QB175);
end;
if QC164>-4 then do;
  START(NEWYEAR,2)=WEEK(QC164,QC166,QC168);
  STOP(NEWYEAR,2)=WEEK(QC171,QC173,QC175);
end;
if QD164>-4 then do;
  START(NEWYEAR,3)=WEEK(QD164,QD166,QD168);
  STOP(NEWYEAR,3)=WEEK(QD171,QD173,QD175);
end;
if QE164>-4 then do;
  START(NEWYEAR,4)=WEEK(QE164,QE166,QE168);
  STOP(NEWYEAR,4)=WEEK(QE171,QE173,QE175);
end;
if QF164>-4 then do;
  START(NEWYEAR,5)=WEEK(QF164,QF166,QF168);
  STOP(NEWYEAR,5)=WEEK(QF171,QF173,QF175);
end;

PAST(NEWYEAR,1)=QB160;           PAST(NEWYEAR,2)=QC160;
PAST(NEWYEAR,3)=QD160;           PAST(NEWYEAR,4)=QE160;
PAST(NEWYEAR,5)=QF160;
CURRENT(NEWYEAR,1)=QB170;                CURRENT(NEWYEAR,2)=QC170;
CURRENT(NEWYEAR,3)=QD170;                CURRENT(NEWYEAR,4)=QE170;
CURRENT(NEWYEAR,5)=QF170;
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WHYLEFT(NEWYEAR,1)=QB177;                    WHYLEFT(NEWYEAR,2)=QC177;
WHYLEFT(NEWYEAR,3)=QD177;                    WHYLEFT(NEWYEAR,4)=QE177;
WHYLEFT(NEWYEAR,5)=QF177;
WEEKSNOTWORKED(NEWYEAR,1)=QB227;             WEEKSNOTWORKED(NEWYEAR,2)=QC227;
WEEKSNOTWORKED(NEWYEAR,3)=QD227;             WEEKSNOTWORKED(NEWYEAR,4)=QE227;
WEEKSNOTWORKED(NEWYEAR,5)=QF227;
CPSJOB(NEWYEAR,1)=QB424;                     CPSJOB(NEWYEAR,2)=QC424;
CPSJOB(NEWYEAR,3)=QD424;                     CPSJOB(NEWYEAR,4)=QE424;
CPSJOB(NEWYEAR,5)=QF424;
if QB424=1 then do;
  INDUSTRY(NEWYEAR,1)=Q1042;                 OCCUPATION(NEWYEAR,1)=Q1045;
  CLASSWORKER(NEWYEAR,1)=Q1055;
  if Q1063=-4 then HOURSWEEK(NEWYEAR,1)=Q1058;
  else if Q1063^=-4 then HOURSWEEK(NEWYEAR,1)=Q1063;
end;
else do;
  INDUSTRY(NEWYEAR,1)=QB437;                 OCCUPATION(NEWYEAR,1)=QB434;
  CLASSWORKER(NEWYEAR,1)=QB440;
  if QB430=-4 then HOURSWEEK(NEWYEAR,1)=QB425;
  else if QB430^=-4 then HOURSWEEK(NEWYEAR,1)=QB425;
end;
if QC424=1 then do;
  INDUSTRY(NEWYEAR,2)=Q1042;                 OCCUPATION(NEWYEAR,2)=Q1045;
  CLASSWORKER(NEWYEAR,2)=Q1055;
  if Q1063=-4 then HOURSWEEK(NEWYEAR,2)=Q1058;
  else if Q1063^=-4 then HOURSWEEK(NEWYEAR,2)=Q1063;
end;
else do;
  INDUSTRY(NEWYEAR,2)=QC437;                 OCCUPATION(NEWYEAR,2)=QC434;
  CLASSWORKER(NEWYEAR,2)=QC440;
  if QC430=-4 then HOURSWEEK(NEWYEAR,2)=QC425;
  else if QC430^=-4 then HOURSWEEK(NEWYEAR,2)=QC425;
end;
if QD424=1 then do;
  INDUSTRY(NEWYEAR,3)=Q1042;                 OCCUPATION(NEWYEAR,3)=Q1045;
  CLASSWORKER(NEWYEAR,3)=Q1055;
  if Q1063=-4 then HOURSWEEK(NEWYEAR,3)=Q1058;
  else if Q1063^=-4 then HOURSWEEK(NEWYEAR,3)=Q1063;
end;
else do;
  INDUSTRY(NEWYEAR,3)=QD437;                 OCCUPATION(NEWYEAR,3)=QD434;
  CLASSWORKER(NEWYEAR,3)=QD440;
  if QD430=-4 then HOURSWEEK(NEWYEAR,3)=QD425;
  else if QD430^=-4 then HOURSWEEK(NEWYEAR,3)=QD425;
end;
if QE424=1 then do;
  INDUSTRY(NEWYEAR,4)=Q1042;                 OCCUPATION(NEWYEAR,4)=Q1045;
  CLASSWORKER(NEWYEAR,4)=Q1055;
  if Q1063=-4 then HOURSWEEK(NEWYEAR,4)=Q1058;
  else if Q1063^=-4 then HOURSWEEK(NEWYEAR,4)=Q1063;
end;
else do;
  INDUSTRY(NEWYEAR,4)=QE437;                 OCCUPATION(NEWYEAR,4)=QE434;
  CLASSWORKER(NEWYEAR,4)=QE440;
  if QE430=-4 then HOURSWEEK(NEWYEAR,4)=QE425;
  else if QE430^=-4 then HOURSWEEK(NEWYEAR,4)=QE425;
```

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end;
if QF424=1 then do;
  INDUSTRY(NEWYEAR,5)=Q1042;              OCCUPATION(NEWYEAR,5)=Q1045;
  CLASSWORKER(NEWYEAR,5)=Q1055;
  if Q1063=-4 then HOURSWEEK(NEWYEAR,5)=Q1058;
  else if Q1063^=-4 then HOURSWEEK(NEWYEAR,5)=Q1063;
end;
else do;
  INDUSTRY(NEWYEAR,5)=QF437;              OCCUPATION(NEWYEAR,5)=QF434;
  CLASSWORKER(NEWYEAR,5)=QF440;
  if QF430=-4 then HOURSWEEK(NEWYEAR,5)=QF425;
  else if QF430^=-4 then HOURSWEEK(NEWYEAR,5)=QF425;
end;
if QB230>-4 then do;
  PERIODSTART(NEWYEAR,1,1)=WEEK(QB230,QB232,QB234);
  PERIODSTOP(NEWYEAR,1,1)=WEEK(QB236,QB238,QB240);
end;
if QB263>-4 then do;
  PERIODSTART(NEWYEAR,1,2)=WEEK(QB263,QB265,QB267);
  PERIODSTOP(NEWYEAR,1,2)=WEEK(QB269,QB271,QB273);
end;
if QB328>-4 then do;
  PERIODSTART(NEWYEAR,1,3)=WEEK(QB328,QB330,QB332);
  PERIODSTOP(NEWYEAR,1,3)=WEEK(QB334,QB336,QB338);
end;
if QC230>-4 then do;
  PERIODSTART(NEWYEAR,2,1)=WEEK(QC230,QC232,QC234);
  PERIODSTOP(NEWYEAR,2,1)=WEEK(QC236,QB238,QB240);
end;
if QC263>-4 then do;
  PERIODSTART(NEWYEAR,2,2)=WEEK(QC263,QC265,QC267);
  PERIODSTOP(NEWYEAR,2,2)=WEEK(QC269,QC271,QC273);
end;
if QC328>-4 then do;
  PERIODSTART(NEWYEAR,2,3)=WEEK(QC328,QC330,QC332);
  PERIODSTOP(NEWYEAR,2,3)=WEEK(QC334,QC336,QC338);
end;
if QD230>-4 then do;
  PERIODSTART(NEWYEAR,3,1)=WEEK(QD230,QD232,QD234);
  PERIODSTOP(NEWYEAR,3,1)=WEEK(QD236,QD238,QD240);
end;
if QD263>-4 then do;
  PERIODSTART(NEWYEAR,3,2)=WEEK(QD263,QD265,QD267);
  PERIODSTOP(NEWYEAR,3,2)=WEEK(QD269,QD271,QD273);
end;
if QD328>-4 then do;
  PERIODSTART(NEWYEAR,3,3)=WEEK(QD328,QD330,QD332);
  PERIODSTOP(NEWYEAR,3,3)=WEEK(QD334,QD336,QD338);
end;
if QE230>-4 then do;
  PERIODSTART(NEWYEAR,4,1)=WEEK(QE230,QE232,QE234);
  PERIODSTOP(NEWYEAR,4,1)=WEEK(QE236,QE238,QE240);
end;
if QE263>-4 then do;
  PERIODSTART(NEWYEAR,4,2)=WEEK(QE263,QE265,QE267);
  PERIODSTOP(NEWYEAR,4,2)=WEEK(QE269,QE271,QE273);
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end;
if QE328>-4 then do;
  PERIODSTART(NEWYEAR,4,3)=WEEK(QE328,QE330,QE332);
  PERIODSTOP(NEWYEAR,4,3)=WEEK(QE334,QE336,QE338);
end;
if QF230>-4 then do;
  PERIODSTART(NEWYEAR,5,1)=WEEK(QF230,QF232,QF234);
  PERIODSTOP(NEWYEAR,5,1)=WEEK(QF236,QF238,QF240);
end;
if QF263>-4 then do;
  PERIODSTART(NEWYEAR,5,2)=WEEK(QF263,QF265,QF267);
  PERIODSTOP(NEWYEAR,5,2)=WEEK(QF269,QF271,QF273);
end;
if QF328>-4 then do;
  PERIODSTART(NEWYEAR,5,3)=WEEK(QF328,QF330,QF332);
  PERIODSTOP(NEWYEAR,5,3)=WEEK(QF334,QF336,QF338);
end;

REASON(NEWYEAR,1,1)=QB242;        REASON(NEWYEAR,1,2)=QB275;
REASON(NEWYEAR,1,3)=QB340;        REASON(NEWYEAR,2,1)=QC242;
REASON(NEWYEAR,2,2)=QC275;        REASON(NEWYEAR,2,3)=QC340;
REASON(NEWYEAR,3,1)=QD242;        REASON(NEWYEAR,3,2)=QD275;
REASON(NEWYEAR,3,3)=QD340;        REASON(NEWYEAR,4,1)=QE242;
REASON(NEWYEAR,4,2)=QE275;        REASON(NEWYEAR,4,3)=QE340;
REASON(NEWYEAR,5,1)=QF242;        REASON(NEWYEAR,5,2)=QF275;
REASON(NEWYEAR,5,3)=QF340;        ALL(NEWYEAR,1,1)=QB244;
ALL(NEWYEAR,1,2)=QB277;           ALL(NEWYEAR,1,3)=QB342;
ALL(NEWYEAR,2,1)=QC244;           ALL(NEWYEAR,2,2)=QC277;
ALL(NEWYEAR,2,3)=QC342;           ALL(NEWYEAR,3,1)=QD244;
ALL(NEWYEAR,3,2)=QD277;           ALL(NEWYEAR,3,3)=QD342;
ALL(NEWYEAR,4,1)=QE244;           ALL(NEWYEAR,4,2)=QE277;
ALL(NEWYEAR,4,3)=QE342;           ALL(NEWYEAR,5,1)=QF244;
ALL(NEWYEAR,5,2)=QF277;           ALL(NEWYEAR,5,3)=QF342;
LOOK(NEWYEAR,1,1)=QB254;          LOOK(NEWYEAR,1,2)=QB319;
LOOK(NEWYEAR,1,3)=QB352;          LOOK(NEWYEAR,2,1)=QC254;
LOOK(NEWYEAR,2,2)=QC319;          LOOK(NEWYEAR,2,3)=QC352;
LOOK(NEWYEAR,3,1)=QD254;          LOOK(NEWYEAR,3,2)=QD319;
LOOK(NEWYEAR,3,3)=QD352;          LOOK(NEWYEAR,4,1)=QE254;
LOOK(NEWYEAR,4,2)=QE319;          LOOK(NEWYEAR,4,3)=QE352;
LOOK(NEWYEAR,5,1)=QF254;          LOOK(NEWYEAR,5,2)=QF319;
LOOK(NEWYEAR,5,3)=QF352;

/*        extra gaps             */
if ID=230 then do;
  PERIODSTART(NEWYEAR,2,4)=WEEK(7,1,89);   PERIODSTOP(NEWYEAR,2,4)=WEEK(7,22,89);
  REASON(NEWYEAR,2,4)=13;            ALL(NEWYEAR,2,4)=-4;
end;
if ID=582 then do;
  PERIODSTART(NEWYEAR,2,4)=WEEK(3,19,89);   PERIODSTOP(NEWYEAR,2,4)=WEEK(4,30,89);
  REASON(NEWYEAR,2,4)= 4;            ALL(NEWYEAR,2,4)=1;
end;
if ID=912 then do;
  PERIODSTART(NEWYEAR,1,4)=WEEK(4,6,89);   PERIODSTOP(NEWYEAR,1,4)=WEEK(5,2,89);
  REASON(NEWYEAR,1,4)= 4;            ALL(NEWYEAR,1,4)=1;
end;
if ID=2242 then do;
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    PERIODSTART(NEWYEAR,1,4)=WEEK(8,19,88);    PERIODSTOP(NEWYEAR,1,4)=WEEK(8,27,88);
    REASON(NEWYEAR,1,4)= 6;
end;
if ID=3614 then do;
    PERIODSTART(NEWYEAR,1,4)=WEEK(7,3,89);    PERIODSTOP(NEWYEAR,1,4)=WEEK(7,8,89);
    REASON(NEWYEAR,1,4)=11;
end;
if ID=3702 then do;
    PERIODSTART(NEWYEAR,1,4)=WEEK(7,3,89);    PERIODSTOP(NEWYEAR,1,4)=WEEK(7,8,89);
    REASON(NEWYEAR,1,4)= 2;
end;
if ID=3837 then do;
    PERIODSTART(NEWYEAR,1,4)=WEEK(3,13,89);    PERIODSTOP(NEWYEAR,1,4)=WEEK(6,20,89);
    REASON(NEWYEAR,1,4)= 4;           ALL(NEWYEAR,1,4)=1;
end;
if ID=4622 then do;
    PERIODSTART(NEWYEAR,2,4)=WEEK(1,23,89);    PERIODSTOP(NEWYEAR,2,4)=WEEK(1,29,89);
    REASON(NEWYEAR,2,4)= 11;
end;
if ID=4772 then do;
    PERIODSTART(NEWYEAR,1,4)=WEEK(6,05,89);    PERIODSTOP(NEWYEAR,1,4)=WEEK(6,10,89);
    REASON(NEWYEAR,1,4)=13;
end;
if ID=5200 then do;
    PERIODSTART(NEWYEAR,1,4)=WEEK(1,13,89);    PERIODSTOP(NEWYEAR,1,4)=WEEK(1,21,89);
    REASON(NEWYEAR,1,4)=11;
end;
if ID=5339 then do;
    PERIODSTART(NEWYEAR,1,4)=WEEK(1,25,89);    PERIODSTOP(NEWYEAR,1,4)=WEEK(2,8,89);
    REASON(NEWYEAR,1,4)= 2;
end;
if ID=5552 then do;
    PERIODSTART(NEWYEAR,1,4)=WEEK(5,27,89);    PERIODSTOP(NEWYEAR,1,4)=WEEK(6,05,89);
    REASON(NEWYEAR,1,4)=2;
end;
if ID=6789 then do;
    PERIODSTART(NEWYEAR,1,4)=WEEK(11,12,88);    PERIODSTOP(NEWYEAR,1,4)=WEEK(11,30,88);
    REASON(NEWYEAR,1,4)= 9;
end;
if ID=7956 then do;
    PERIODSTART(NEWYEAR,2,4)=WEEK(4,9,89);    PERIODSTOP(NEWYEAR,2,4)=WEEK(6,27,89);
    REASON(NEWYEAR,2,4)= 13;
end;
if ID=7997 then do;
    PERIODSTART(NEWYEAR,2,4)=WEEK(5,24,89);    PERIODSTOP(NEWYEAR,2,4)=WEEK(6,7,89);
    REASON(NEWYEAR,2,4)= 4;           ALL(NEWYEAR,2,4)=1;
end;
if ID=8917 then do;
    PERIODSTART(NEWYEAR,1,4)=WEEK(7,3,89);    PERIODSTOP(NEWYEAR,1,4)=WEEK(7,24,89);
    REASON(NEWYEAR,1,4)=2;
end;
if ID=9502 then do;
    PERIODSTART(NEWYEAR,1,4)=WEEK(8,13,89);    PERIODSTOP(NEWYEAR,1,4)=WEEK(8,19,89);
    REASON(NEWYEAR,1,4)= 4;           ALL(NEWYEAR,1,4)=1;
end;
if ID=9665 then do;
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      PERIODSTART(NEWYEAR,1,4)=WEEK(6,19,89);   PERIODSTOP(NEWYEAR,1,4)=WEEK(7,08,89);
      REASON(NEWYEAR,1,4)= 12;
   end;
   if ID=10514 then do;
      PERIODSTART(NEWYEAR,3,4)=WEEK(4,3,89);    PERIODSTOP(NEWYEAR,3,4)=WEEK(5,18,89);
      REASON(NEWYEAR,3,4)= 4;              ALL(NEWYEAR,3,4)=1;
   end;
   if ID=11927 then do;
      PERIODSTART(NEWYEAR,2,4)=WEEK(3,23,89);   PERIODSTOP(NEWYEAR,2,4)=WEEK(5,15,89);
      REASON(NEWYEAR,2,4)= 4;              ALL(NEWYEAR,2,4)=1;
   end;
   if ID=11986 then do;
      PERIODSTART(NEWYEAR,1,4)=WEEK(8,6,89);    PERIODSTOP(NEWYEAR,1,4)=WEEK(8,26,89);
      REASON(NEWYEAR,1,4)= 14;
   end;
   if ID=12069 then do;
      PERIODSTART(NEWYEAR,2,4)=WEEK(8,15,88);   PERIODSTOP(NEWYEAR,2,4)=WEEK(8,23,88);
      REASON(NEWYEAR,2,4)= 4;              ALL(NEWYEAR,2,4)=1;
   end;
   if ID=12091 then do;
      PERIODSTART(NEWYEAR,1,4)=WEEK(10,10,88);   PERIODSTOP(NEWYEAR,1,4)=WEEK(10,17,88);
      REASON(NEWYEAR,1,4)= 2;
   end;
   if ID=6393 then do;
      BSTART(NEWYEAR,5) = WEEK(2,28,86);          BSTOP(NEWYEAR,5)  = WEEK(1,11,87);
      BALL(NEWYEAR,5)   = 3;
   end;
   if ID=8447 then do;
      BSTART(NEWYEAR,5)=WEEK(6,4,89);             BSTOP(NEWYEAR,5)=WEEK(7,24,89);
      BALL(NEWYEAR,5)=3;                          BSTART(NEWYEAR,6)=WEEK(5,25,89);
      BSTOP(NEWYEAR,6)=WEEK(5,31,89);             BALL(NEWYEAR,6)=3;
   end;


   if Q1223>-4 then do;
      BSTART(NEWYEAR,1)=WEEK(Q1223,Q1225,Q1227);
      BSTOP(NEWYEAR,1)=WEEK(Q1229,Q1231,Q1233);
   end;
   if Q1254>-4 then do;
      BSTART(NEWYEAR,2)=WEEK(Q1254,Q1256,Q1258);
      BSTOP(NEWYEAR,2)=WEEK(Q1260,Q1262,Q1264);
   end;
   if Q1319>-4 then do;
      BSTART(NEWYEAR,3)=WEEK(Q1319,Q1321,Q1323);
      BSTOP(NEWYEAR,3)=WEEK(Q1325,Q1327,Q1329);
   end;
   if Q1350>-4 then do;
      BSTART(NEWYEAR,4)=WEEK(Q1350,Q1352,Q1354);
      BSTOP(NEWYEAR,4)=WEEK(Q1356,Q1358,Q1360);
   end;
   BALL(NEWYEAR,1)=Q1235;            BALL(NEWYEAR,2)=Q1266;
   BALL(NEWYEAR,3)=Q1331;            BALL(NEWYEAR,4)=Q1362;
   BLOOK(NEWYEAR,1)=Q1245;           BLOOK(NEWYEAR,2)=Q1310;
   BLOOK(NEWYEAR,3)=Q1341;           BLOOK(NEWYEAR,4)=Q1372;
   BREASON(NEWYEAR,1)=Q1251;         BREASON(NEWYEAR,2)=Q1316;
   BREASON(NEWYEAR,3)=Q1347;         BREASON(NEWYEAR,4)=Q1378;
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 CURAMIL = 0;
 if (Q0752 = 1) | (Q0773 = 1) then CURAMIL = 1;
 if Q0746=1 & Q3049>=1 & Q3049<=4 then do;
   if CURAMIL=1 then MSTOP1(NEWYEAR)=INT(NEWYEAR);
   else MSTOP1(NEWYEAR)=WEEK(Q0753,Q0758,Q0755);
   MSTART1(NEWYEAR)=LASTINT(NEWYEAR);
   if MSTART1(NEWYEAR)>=0 & MSTOP1(NEWYEAR)>=MSTART1(NEWYEAR) then
     call FILL(MSTART1(NEWYEAR),MSTOP1(NEWYEAR),7,0);
 end;
 if Q0764>=1 & Q0764<=4 then do;
   if Q0768=1 then do;
     MSTART2(NEWYEAR)=WEEK(Q0769,Q0774,Q0771);
     MSTOP2(NEWYEAR)=INT(NEWYEAR);
   end;
   else if Q0810=1 then do;
     MSTART2(NEWYEAR)=WEEK(Q0811,Q0813,Q0815);
     MSTOP2(NEWYEAR)=WEEK(Q0818,Q0820,Q0822);
   end;
   if MSTART2(NEWYEAR)>=0 & MSTOP2(NEWYEAR)>=MSTART2(NEWYEAR) then
     call FILL(MSTART2(NEWYEAR),MSTOP2(NEWYEAR),7,0);
 end;
 if MSTART1(NEWYEAR)>-4 | MSTART2(NEWYEAR)>-4 | MSTOP1(NEWYEAR)>-4
   | MSTOP2(NEWYEAR)>-4 then do;
   if MSTART1(NEWYEAR)=-3 | MSTART2(NEWYEAR)=-3 | MSTOP1(NEWYEAR)=-3
     | MSTOP2(NEWYEAR)=-3 then do;
     MILWKSL(NEWYEAR)=-3;
     MILWKSC(NEWYEAR)=-3;
   end;
 /* else if MSTART1(NEWYEAR) > MSTOP1(NEWYEAR) | MSTART2(NEWYEAR) >
          MSTOP2(NEWYEAR) then do;
     MILWKSL(NEWYEAR)=-3;
     MILWKSC(NEWYEAR)=-3;
   end; */
   else do;
     MILWKSL(NEWYEAR)=0;
     MILWKSC(NEWYEAR)=0;
     if MSTART1(NEWYEAR)>=0 then MILWKSL(NEWYEAR)=
       MSTOP1(NEWYEAR) - MSTART1(NEWYEAR) + 1;
     if MSTART2(NEWYEAR)>=0 then MILWKSL(NEWYEAR)=
       MILWKSL(NEWYEAR) + MSTOP2(NEWYEAR) - MSTART2(NEWYEAR) + 1;
     MILWKSL(NEWYEAR)=FLOOR(MILWKSL(NEWYEAR)+.5);
   end;
 end;


 /*    ADDITIONAL JOBS / EMPLOYMENT SUPPLEMENT              */
NUMVAR=128; /* number of variables in the supplement */
 if ID=229  | ID=293  | ID=484  | ID=1326   | ID=1942 | ID=3087 | ID=3541 | ID=6728   |
   ID=8447 | ID=9397 | ID=10133 | ID=10417   | ID=11014 | ID=11805 then do;
   read file(ADDJOBS) into (ADDJVBLS);
   kountadd=kountadd+1;
   STARTM(NEWYEAR,6)=ADDJVBLS(20);
   STARTD(NEWYEAR,6)=ADDJVBLS(21);
   STARTY(NEWYEAR,6)=ADDJVBLS(22);
   STARTM(NEWYEAR,7)=ADDJVBLS(NUMVAR+20);
   STARTD(NEWYEAR,7)=ADDJVBLS(NUMVAR+21);
   STARTY(NEWYEAR,7)=ADDJVBLS(NUMVAR+22);
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STARTM(NEWYEAR,8)=ADDJVBLS((2*NUMVAR)+20);
STARTD(NEWYEAR,8)=ADDJVBLS((2*NUMVAR)+21);
STARTY(NEWYEAR,8)=ADDJVBLS((2*NUMVAR)+22);
STARTM(NEWYEAR,9)=ADDJVBLS((3*NUMVAR)+20);
STARTD(NEWYEAR,9)=ADDJVBLS((3*NUMVAR)+21);
STARTY(NEWYEAR,9)=ADDJVBLS((3*NUMVAR)+22);
STARTM(NEWYEAR,10)=ADDJVBLS((4*NUMVAR)+20);
STARTD(NEWYEAR,10)=ADDJVBLS((4*NUMVAR)+21);
STARTY(NEWYEAR,10)=ADDJVBLS((4*NUMVAR)+22);
STOPM(NEWYEAR,6)=ADDJVBLS(24);
STOPD(NEWYEAR,6)=ADDJVBLS(25);
STOPY(NEWYEAR,6)=ADDJVBLS(26);
STOPM(NEWYEAR,7)=ADDJVBLS(NUMVAR+24);
STOPD(NEWYEAR,7)=ADDJVBLS(NUMVAR+25);
STOPY(NEWYEAR,7)=ADDJVBLS(NUMVAR+26);
STOPM(NEWYEAR,8)=ADDJVBLS((2*NUMVAR)+24);
STOPD(NEWYEAR,8)=ADDJVBLS((2*NUMVAR)+25);
STOPY(NEWYEAR,8)=ADDJVBLS((2*NUMVAR)+26);
STOPM(NEWYEAR,9)=ADDJVBLS((3*NUMVAR)+24);
STOPD(NEWYEAR,9)=ADDJVBLS((3*NUMVAR)+25);
STOPY(NEWYEAR,9)=ADDJVBLS((3*NUMVAR)+26);
STOPM(NEWYEAR,10)=ADDJVBLS((4*NUMVAR)+24);
STOPD(NEWYEAR,10)=ADDJVBLS((4*NUMVAR)+25);
STOPY(NEWYEAR,10)=ADDJVBLS((4*NUMVAR)+26);

if ADDJVBLS(7)>-4 then PREVIOUSEMP#(NEWYEAR,6)=ADDJVBLS(7);
else PREVIOUSEMP#(NEWYEAR,6)=ADDJVBLS(13);
if ADDJVBLS(135)>-4 then PREVIOUSEMP#(NEWYEAR,7)=ADDJVBLS(135);
else PREVIOUSEMP#(NEWYEAR,7)=ADDJVBLS(141);
if ADDJVBLS(263)>-4 then PREVIOUSEMP#(NEWYEAR,8)=ADDJVBLS(263);
else PREVIOUSEMP#(NEWYEAR,8)=ADDJVBLS(269);
if ADDJVBLS(391)>-4 then PREVIOUSEMP#(NEWYEAR,9)=ADDJVBLS(391);
else PREVIOUSEMP#(NEWYEAR,9)=ADDJVBLS(397);
if ADDJVBLS(519)>-4 then PREVIOUSEMP#(NEWYEAR,10)=ADDJVBLS(519);
else PREVIOUSEMP#(NEWYEAR,10)=ADDJVBLS(525);
PRETEN(NEWYEAR,6)=ADDJVBLS(19);
PRETEN(NEWYEAR,7)=ADDJVBLS(NUMVAR+19);
PRETEN(NEWYEAR,8)=ADDJVBLS((2*NUMVAR)+19);
PRETEN(NEWYEAR,9)=ADDJVBLS((3*NUMVAR)+19);
PRETEN(NEWYEAR,10)=ADDJVBLS((4*NUMVAR)+19);
OCCUPATION(NEWYEAR,6)=ADDJVBLS(107);
OCCUPATION(NEWYEAR,7)=ADDJVBLS(NUMVAR+107);
OCCUPATION(NEWYEAR,8)=ADDJVBLS((2*NUMVAR)+107);
OCCUPATION(NEWYEAR,9)=ADDJVBLS((3*NUMVAR)+107);
OCCUPATION(NEWYEAR,10)=ADDJVBLS((4*NUMVAR)+107);
INDUSTRY(NEWYEAR,6)=ADDJVBLS(108);
INDUSTRY(NEWYEAR,7)=ADDJVBLS(NUMVAR+108);
INDUSTRY(NEWYEAR,8)=ADDJVBLS((2*NUMVAR)+108);
INDUSTRY(NEWYEAR,9)=ADDJVBLS((3*NUMVAR)+108);
INDUSTRY(NEWYEAR,10)=ADDJVBLS((4*NUMVAR)+108);
CLASSWORKER(NEWYEAR,6)=ADDJVBLS(109);
CLASSWORKER(NEWYEAR,7)=ADDJVBLS(NUMVAR+109);
CLASSWORKER(NEWYEAR,8)=ADDJVBLS((2*NUMVAR)+109);
CLASSWORKER(NEWYEAR,9)=ADDJVBLS((3*NUMVAR)+109);
CLASSWORKER(NEWYEAR,10)=ADDJVBLS((4*NUMVAR)+109);
HOURDAY(NEWYEAR,6)=ADDJVBLS(99);
```

```
HOURDAY(NEWYEAR,7)=ADDJVBLS(NUMVAR+99);
HOURDAY(NEWYEAR,8)=ADDJVBLS((2*NUMVAR)+99);
HOURDAY(NEWYEAR,9)=ADDJVBLS((3*NUMVAR)+99);
HOURDAY(NEWYEAR,10)=ADDJVBLS((4*NUMVAR)+99);
PAYRATE(NEWYEAR,6)=ADDJVBLS(112);
PAYRATE(NEWYEAR,7)=ADDJVBLS(NUMVAR+112);
PAYRATE(NEWYEAR,8)=ADDJVBLS((2*NUMVAR)+112);
PAYRATE(NEWYEAR,9)=ADDJVBLS((3*NUMVAR)+112);
PAYRATE(NEWYEAR,10)=ADDJVBLS((4*NUMVAR)+112);
TIMERATE(NEWYEAR,6)=ADDJVBLS(113);
TIMERATE(NEWYEAR,7)=ADDJVBLS(NUMVAR+113);
TIMERATE(NEWYEAR,8)=ADDJVBLS((2*NUMVAR)+113);
TIMERATE(NEWYEAR,9)=ADDJVBLS((3*NUMVAR)+113);
TIMERATE(NEWYEAR,10)=ADDJVBLS((4*NUMVAR)+113);
UNION(NEWYEAR,6)=ADDJVBLS(122);
UNION(NEWYEAR,7)=ADDJVBLS(NUMVAR+122);
UNION(NEWYEAR,8)=ADDJVBLS((2*NUMVAR)+122);
UNION(NEWYEAR,9)=ADDJVBLS((3*NUMVAR)+122);
UNION(NEWYEAR,10)=ADDJVBLS((4*NUMVAR)+122);
GOVTJOB(NEWYEAR,6)=-4;
GOVTJOB(NEWYEAR,7)=-4;
GOVTJOB(NEWYEAR,8)=-4;
GOVTJOB(NEWYEAR,9)=-4;
GOVTJOB(NEWYEAR,10)=-4;
N=20;
do J=6 to 10;
  if ADDJVBLS(N)>-4 then do;
    START(NEWYEAR,J)=WEEK(ADDJVBLS(N),ADDJVBLS(N+1),ADDJVBLS(N+2));
    STOP(NEWYEAR,J)=WEEK(ADDJVBLS(N+4),ADDJVBLS(N+5),ADDJVBLS(N+6));
  end;
  N=N+128;
end;
N=23;
do J=6 to 10;
  CURRENT(NEWYEAR,J)=ADDJVBLS(N);
  WHYLEFT(NEWYEAR,J)=ADDJVBLS(N+4);
  if ADDJVBLS(N+81)=-4 then HOURSWEEK(NEWYEAR,J)=ADDJVBLS(N+78);
  else if ADDJVBLS(N+78)>-4 then HOURSWEEK(NEWYEAR,J)=ADDJVBLS(N+78);
  WEEKSNOTWORKED(NEWYEAR,J)=ADDJVBLS(N+14);
  PAST(NEWYEAR,J)=ADDJVBLS(N-6);
  P=N;
  do K=1 to 2;
    if ADDJVBLS(P+15)>-4 then do;
      PERIODSTART(NEWYEAR,J,K)=
        WEEK(ADDJVBLS(P+16),ADDJVBLS(P+17),ADDJVBLS(P+18));
      PERIODSTOP(NEWYEAR,J,K)=
        WEEK(ADDJVBLS(P+19),ADDJVBLS(P+20),ADDJVBLS(P+21));
    end;
    REASON(NEWYEAR,J,K)=ADDJVBLS(P+22);
    ALL(NEWYEAR,J,K)=ADDJVBLS(P+23);
    LOOK(NEWYEAR,J,K)=ADDJVBLS(P+27);
    P=P+15;
  end;
  N=N+128;
end;
end;
```

```
if HOURDAY(NEWYEAR,7)=97 then HOURDAY(NEWYEAR,7)=-1;
if HOURSWEEK(NEWYEAR,7)=97 then HOURSWEEK(NEWYEAR,7)=-1;
if PAYRATE(NEWYEAR,7)=999999797 then PAYRATE(NEWYEAR,7)=-1;
if TIMERATE(NEWYEAR,7)=97 then TIMERATE(NEWYEAR,7)=-1;
if UNION(NEWYEAR,7)=7 then UNION(NEWYEAR,7)=-1;
if STOPD(NEWYEAR,6)=98 then STOPD(NEWYEAR,6)=-2;
if ID=1942 then PAYRATE(NEWYEAR,7)=-1;
end NEWVARIABLES;

1WEEK:PROC(MONTH,DAY,YEAR) RETURNS(float dec);
/******* The purpose of the week function is to take a date passed to it and to convert that date into a week
          number relative to 1-1-78.  Note that dates prior to 1-1-78 are assigned to week 0, missing days are
          assigned to day 15 of the month and a '-3' is returned if the date is not valid. ********/
dcl (MONTH,DAY,YEAR) float dec(6);
dcl MON(12) float dec(6) INIT(0,31,59,90,120,151,181,212,243,273,304,334);
if YEAR>0 & YEAR<MAXYEAR then MAXYEAR=YEAR;
if YEAR>0 & YEAR<78 then RETURN(0);
else if MONTH>0 & YEAR>0 & DAY<0 then DAY=15;
if MONTH>0 & MONTH<=12 & DAY>0 & DAY<32 & YEAR>=78 & YEAR<97 then do;
  LEAP=0;
  if YEAR>=80 then do;
    LEAP=CEIL((YEAR-80)/4);
    if MOD(YEAR,4)=0 & MONTH>2 then LEAP=LEAP+1;
  end;
  RETURN(((YEAR-78) *365 + MON(MONTH) + DAY + LEAP)/7);
end;
else RETURN(-3);
end WEEK;

1CALC: PROC(YR);
dcl YR float dec(6);
dcl CODE float dec(6);
CODE=-4;
LASTINT_JOBS(YR)=0;
do J=1 to 10;
  FLAG=0;
  if START(YR,J)>-4 | STOP(YR,J)>-4 then do;
    LASTINT_JOBS(YR)=LASTINT_JOBS(YR)+1;
    NUMBER(YR,J)=YR*100+J;
    HOURLYWAGE(YR,J)=HRP(J);
    if PAST(YR,J)=1 | PAST(YR,J)=2 then START(YR,J)=LASTINT(YR);
    if CURRENT(YR,J)=1 then STOP(YR,J)=INT(YR);
    else if STOP(YR,J)>0 & STOP(YR,J)>INT(YR) then STOP(YR,J)=INT(YR);
    if START(YR,J)>=0 & STOP(YR,J)>=START(YR,J) then do;
      START(YR,J)=CEIL(START(YR,J));
      STOP(YR,J)=CEIL(STOP(YR,J));
      TENURE(YR,J)=STOP(YR,J) - START(YR,J) + 1;
      call FILL(START(YR,J),STOP(YR,J),NUMBER(YR,J),HOURSWEEK(YR,J));
    end;
    else TENURE(YR,J)=-3;
    FLAG=1;
    if WEEKSNOTWORKED(YR,J)^=0 & WEEKSNOTWORKED(YR,J)^=-4 then do K=1 to 4;
      if PERIODSTOP(YR,J,K)>=0 & PERIODSTOP(YR,J,K)>INT(YR) then
        PERIODSTOP(YR,J,K)=INT(YR);
      if PERIODSTART(YR,J,K)>=0 & PERIODSTOP(YR,J,K)>=PERIODSTART(YR,J,K)
        then do;
```

```
         if REASON(YR,J,K)=2 then CODE=4;
         else if REASON(YR,J,K)>0 then do;
           if REASON(YR,J,K)^=3 & REASON(YR,J,K)^=4 then CODE=5;
           else do;
             if ALL(YR,J,K)=1 then CODE=5;
             else if ALL(YR,J,K)=3 then CODE=4;
             else if ALL(YR,J,K)=2 & LOOK(YR,J,K)>=0 then do;
               CODE=9;
               #WEEKS=LOOK(YR,J,K);
             end;
             else CODE=2;
           end;
         end;
         else CODE=2;
         call FILL(PERIODSTART(YR,J,K),PERIODSTOP(YR,J,K),CODE,HOURSWEEK(YR,J));
       end;
       else if K=1 then call FILL(START(YR,J),STOP(YR,J),3,HOURSWEEK(YR,J));
     end;
     if PREVIOUSEMP#(YR,J)>0 then do;
      if TENURE(YR,J)>0 & OLDHIST.OJOB(PR,PREVIOUSEMP#(YR,J),46)>0 then
      TENURE(YR,J)=TENURE(YR,J)+OLDHIST.OJOB(PR,PREVIOUSEMP#(YR,J),46);
       else TENURE(YR,J)=-3;
     end;
     if PRETEN(YR,J)>-4 then do;
       if TENURE(YR,J)>=0 & PRETEN(YR,J)>=0 then TENURE(YR,J)=TENURE(YR,J) + 4.3 *
           PRETEN(YR,J);
       else TENURE(YR,J)=-3;
      end;
     if TENURE(YR,J)<0 then TENURE(YR,J)=-3;
     else TENURE(YR,J)=FLOOR(TENURE(YR,J) + .5);
   end;
 end;
FLAG=0;
do K=1 to 6;
  if BSTOP(YR,K)>=0 & BSTOP(YR,K)>INT(YR) then BSTOP(YR,K)=INT(YR);
  if BSTART(YR,K)>=0 & BSTOP(YR,K)>=BSTART(YR,K) then do;
    if BALL(YR,K)=1 then CODE=5;
    else if BALL(YR,K)=3 then CODE=4;
    else if BALL(YR,K)=2 & BLOOK(YR,K)>=0 then do;
      CODE=9;
      #WEEKS=BLOOK(YR,K);
    end;
    else CODE=2;
    call FILL(BSTART(YR,K),BSTOP(YR,K),CODE,0);
  end;
end;
PR=YR;
end CALC;

1FILL:PROC(WEEK_BEGAN,WEEK_ENDED,COD,HOURS);
dcl (WEEK_BEGAN,WEEK_ENDED,COD,HOURS) float dec;
if HOURS<0 then HOURS=-3;
else if HOURS=99 | HOURS=98 | HOURS=97 then HOURS=-3;
FILLER=0;WEEK_BEGAN=CEIL(WEEK_BEGAN);WEEK_ENDED=CEIL(WEEK_ENDED);
if WEEK_BEGAN>=0 & WEEK_ENDED>=WEEK_BEGAN then do F=WEEK_BEGAN to WEEK_ENDED;
  JJ = 1;
```

```
if A(F)>100 & COD>100 &
PR*100+PREVIOUSEMP#((FLOOR(COD/100)),(MOD(COD,100)))
^=A(F) then do;
  DUP=0;
  if DUALJOB(F,1)>0 then do;
    KK = 1;
    do WHILE ((KK <= 4) & (DUALJOB(F,KK) ^= 0));
      if PR*100+PREVIOUSEMP#((FLOOR(COD/100)),(MOD(COD,100)))=
        DUALJOB(F,KK) then DUP=1;
      KK = KK + 1;
    end;
  end;
  if DUP=0 then do;
    if HOURS>0 & HOUR(F)>=0 then do;
      HOUR(F)=HOUR(F) + HOURS;
      if HOUR(F)>96 then HOUR(F)=96;
    end;
    else if HOUR(F)<96 then HOUR(F)=-3;
    if (MOD(COD,100)) = 0 | (MOD(COD,100)) > 10 then do;
      put file(sysprint)
        edit('*** (error) IN CREATING DUALJOB> ID = ',ID, '...COD = ',COD)
          (skip(1),A,F(7,0),A,F(7,0));
    end;
    else do;
      KK = 1;
      do WHILE (KK <= 4);
        if DUALJOB(F,KK) = 0 then do;
          if KK > 1 then do;
            DUALJOB(F,KK) = DUALJOB(F,KK-1);
            DUALJOB(F,KK-1) = COD;
          end;
          else DUALJOB(F,1) = COD;
          KK = 9;
        end;
        KK = KK + 1;
      end;
    end;
  end;
end;
else if DUALJOB(F,1)=0 & (FLAG=1 | A(F)<100) then do;
  if COD=9 then do;
    if HOURS>0 & HOUR(F)>0 & (HOUR(F) - HOURS>=0) then HOUR(F)=HOUR(F) - HOURS;
    else if HOURS>0 then HOUR(F)=0;
    else HOUR(F)=HOURS;
    if FILLER<#WEEKS & F>(WEEK_ENDED-WEEK_BEGAN-#WEEKS)/2 + WEEK_BEGAN
      then do;
      A(F)=4;
      FILLER=FILLER+1;
    end;
    else if A(F)^=4 then A(F)=5;
  end;
  else if (A(F)^=4 | COD>100) then do;
    A(F)=COD;
    if COD>100 then HOUR(F)=HOURS;
    else if HOURS>0 & COD^=3 then HOUR(F)=0;
    else HOUR(F)=HOURS;
```

```
          end;
        end;
      else if DUALJOB(F,1)>0  & FLAG=1 & (COD=2 | COD=4 | COD=5 | COD=9) then do;
        KK = 1;
        do WHILE (KK <= 4);
          if DUALJOB(F,KK) = 0 then do;
            if KK > 1 then DUALJOB(F,KK-1) = 0;
            KK = 9;
          end;
          KK = KK + 1;
          if KK = 5 then DUALJOB(F,4) = 0;
        end;
        if HOURS>0 & HOUR(F)>0 & (HOUR(F) - HOURS >=0) then HOUR(F)=HOUR(F) - HOURS;
        else if HOURS>0 then HOUR(F)=0;
        else HOUR(F)=HOURS;
      end;
    end;

  end FILL;

1SUMMER:PROC(YEAR);
 dcl YEAR float dec;
 CALENDAR_YEAR_SUM(YEAR)=0;
 WORKL(YEAR),HOURL(YEAR),WOLFL(YEAR),WUMPL(YEAR),MISSL(YEAR), NWMISSL(YEAR)=0;
 do K=LASTINT(YEAR) to INT(YEAR);
   if A(K)>100 then do;
     WORKL(YEAR)=WORKL(YEAR)+1;
     if HOURL(YEAR)^=-3 & HOUR(K)>0 then HOURL(YEAR)=HOURL(YEAR)+HOUR(K);
     else HOURL(YEAR)=-3;
   end;
   else if A(K)=4 then do;
     if WUMPL(YEAR)^=-3 then WUMPL(YEAR)=WUMPL(YEAR)+1;
   end;
   else if A(K)=2 then do;
     NWMISSL(YEAR)=NWMISSL(YEAR)+1;
     WUMPL(YEAR),WOLFL(YEAR)=-3;
   end;
   else if A(K)=5 | A(K)=7 then do;
     if WOLFL(YEAR)^=-3 then WOLFL(YEAR)=WOLFL(YEAR)+1;
   end;
   else if A(K)=3 then do;
     WORKL(YEAR)=WORKL(YEAR)+1;
     MISSL(YEAR)=MISSL(YEAR)+1;
     if HOURL(YEAR)^=-3 & HOUR(K)>0 then HOURL(YEAR)=HOURL(YEAR)+HOUR(K);
     else HOURL(YEAR)=-3;
     WUMPL(YEAR),WOLFL(YEAR)=-3;
   end;
   else do;
     MISSL(YEAR)=MISSL(YEAR)+1;
     WOLFL(YEAR),WUMPL(YEAR)=-3;
   end;
 end;
 SUMOUT:WBID(YEAR)=INT(YEAR)-LASTINT(YEAR)+1;
 dcl PICKJOB float dec(6);
 do K=1+(YEAR-1)*52 to YEAR*52;
   if A(K)>100 then do;
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    WORKC(YEAR)=WORKC(YEAR)+1;
    if HOURC(YEAR)^=-3 & HOUR(K)>0 then HOURC(YEAR)=HOURC(YEAR)+HOUR(K);
    else HOURC(YEAR)=-3;
    if CAL_YEAR_JOBS(YEAR)=0 then do;
      CAL_YEAR_JOBS(YEAR)=CAL_YEAR_JOBS(YEAR)+1;
      CAL_YEAR_JOB#(YEAR,CAL_YEAR_JOBS(YEAR))=A(K);
    end;
    else do;
      do J=CAL_YEAR_JOBS(YEAR) to 1 by -1;
        if FLOOR(A(K)/100) < YEAR then
          PICKJOB=OLDHIST.OJOB(FLOOR(A(K)/100),MOD(A(K),100),43);
          else PICKJOB=PREVIOUSEMP#(FLOOR(A(K)/100),MOD(A(K),100));
        if A(K)=CAL_YEAR_JOB#(YEAR,J) | PR*100 + PICKJOB
          =CAL_YEAR_JOB#(YEAR,J) then go to NOCOUNT;
      end;
      CAL_YEAR_JOBS(YEAR)=CAL_YEAR_JOBS(YEAR)+1;
      CAL_YEAR_JOB#(YEAR,CAL_YEAR_JOBS(YEAR))=A(K);
    end;
    NOCOUNT:
  end;
  else if A(K)=4 then do;
    if WUMPC(YEAR)^=-3 then WUMPC(YEAR)=WUMPC(YEAR)+1;
  end;
  else if A(K)=2 then do;
    NWMISSC(YEAR)=NWMISSC(YEAR)+1;
    WUMPC(YEAR),WOLFC(YEAR)=-3;
  end;
  else if A(K)=5 | A(K)=7 then do;
    if WOLFC(YEAR)^=-3 then WOLFC(YEAR)=WOLFC(YEAR)+1;
    if A(K)=7 & MILWKSC(YEAR)>=0 then MILWKSC(YEAR)=MILWKSC(YEAR)+1;
  end;
  else if A(K)=3 then do;
    WORKC(YEAR)=WORKC(YEAR)+1;
    MISSC(YEAR)=MISSC(YEAR)+1;
    if HOURC(YEAR)^=-3 & HOUR(K)>0 then HOURC(YEAR)=HOURC(YEAR)+HOUR(K);
    else HOURC(YEAR)=-3;
    WUMPC(YEAR),WOLFC(YEAR)=-3;
  end;
  else do;
    MISSC(YEAR)=MISSC(YEAR)+1;
    WOLFC(YEAR),WUMPC(YEAR)=-3;
  end;
end;
if MILWKSC(YEAR)=0 then MILWKSC(YEAR)=-4;
CALOUT:
MISSL(YEAR)=FLOOR((MISSL(YEAR)/(INT(YEAR)-LASTINT(YEAR)+1)*100));
NWMISSL(YEAR)=FLOOR((NWMISSL(YEAR)/(INT(YEAR)-LASTINT(YEAR)+1)*100));
MISSC(YEAR)=FLOOR((MISSC(YEAR)/52)*100);
NWMISSC(YEAR)=FLOOR((NWMISSC(YEAR)/52)*100);
end SUMMER;

HRP:PROC(JOBNO) RETURNS(float dec(6));  /* modified 7/24/90 */
dcl (JOBNO) fixed bin(15);
if PAYRATE(NEWYEAR,JOBNO)>0 & TIMERATE(NEWYEAR,JOBNO)>0 then do;
  if TIMERATE(NEWYEAR,JOBNO)=1 then RETURN(PAYRATE(NEWYEAR,JOBNO));
  else if TIMERATE(NEWYEAR,JOBNO)=2 & HOURDAY(NEWYEAR,JOBNO)>0 then
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    RETURN((FLOOR(PAYRATE(NEWYEAR,JOBNO)/HOURDAY(NEWYEAR,JOBNO)))));
  else if TIMERATE(NEWYEAR,JOBNO)>=3 & TIMERATE(NEWYEAR,JOBNO)<7 &
  HOURSWEEK(NEWYEAR,JOBNO)>0
    then do;
    if TIMERATE(NEWYEAR,JOBNO)=3 then
      RETURN((FLOOR(PAYRATE(NEWYEAR,JOBNO)/HOURSWEEK(NEWYEAR,JOBNO))));
    else if TIMERATE(NEWYEAR,JOBNO)=4 then
      RETURN((FLOOR(PAYRATE(NEWYEAR,JOBNO)/ (HOURSWEEK(NEWYEAR,JOBNO)*2))));
    else if TIMERATE(NEWYEAR,JOBNO)=5 then
      RETURN((FLOOR(PAYRATE(NEWYEAR,JOBNO)/ (HOURSWEEK(NEWYEAR,JOBNO)*4.3))));
    else if TIMERATE(NEWYEAR,JOBNO)=6 then
      RETURN((FLOOR(PAYRATE(NEWYEAR,JOBNO)/ (HOURSWEEK(NEWYEAR,JOBNO)*52))));
  end;
  else RETURN(-4);
end;
else RETURN(-4);
end HRP;


/*************************************************1990*********************************************/
(SUBRG):
DMPDATA: PROC options(MAIN);
default RANGE(I:N) float;
dcl WORKTAP file record input;          /* current work history tape  */
dcl OLDXVAR file record input;          /* current extra work history variables */
dcl VARSNYR file stream input;          /* new year data-12686 cases, inc. wt */
dcl IDTABLE file stream input;          /* cross-walk of ID's */
dcl ADDJOBS file record input;          /* new year add jobs file */
dcl NEWWORK file record output;         /* writes new updated work history tape */
dcl NEWXVAR file record output;         /* writes additional work history vars */
dcl OUTDISK file stream output;         /* writes 90 key vars file on disk */
dcl (MOD,FLOOR,CEIL,SUBSTR) BUILTIN, sysprint file;
dcl ENDVARS fixed bin(15);
dcl (OLDA,ALIM,J,K,KK,JJ,N,I,NUMVAR) fixed bin(15);
on endfile(WORKTAP) go to done;
on endfile(VARSNYR) ENDVARS=1;
on error go to done;
OLDA=627; ALIM=685; NEWYEAR=12; SURVEY_YR=90; /* note: update this line for arrays limit & year */
dcl 1 VARYR,                            /* vars for new workhistory */
    2 X(1:2998) float dec(6);
dcl 1 IDTBLE,
    2 TABLE_ID  float dec(6),
    2 NORCIDS   float dec(6);
dcl 1 STRUCTIN controlled,
    2 INFO(10)      float dec(6),       /*current workhistory record */
    2 HISTYRS(NEWYEAR-1),
    5 OWT           float dec(6),
    5 OLASTINT      float dec(6),
    5 OINT          float dec(6),
    5 OINTM         float dec(6),
    5 OINTD         float dec(6),
    5 OINTY         float dec(6),
    5 OJOB(10,47)     float dec(6),
    5 OBTWNJOBS(6,5)    float dec(6),
    5 OMILIT(6)       float dec(6),
    5 OCALENDAR(17)     float dec(6),
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     5 OLASTSUM(8)      float dec(6),
     5 OJOBEVER        float dec(6);
dcl 1 XSTRUCT controlled,
   2 PUBLICID         fixed bin(31,0),
   2 ARRAY1(0:OLDA)     fixed bin(15,0),
   2 ARRAY2(0:OLDA)     fixed bin(15,0),
   2 ARRAY3(0:OLDA,4)    fixed bin(15,0);
dcl 1 XVARS controlled,
   2 PUBLICID         fixed bin(31,0),
   2 A(0:ALIM)        fixed bin(15,0),
   2 HOUR(0:ALIM)      fixed bin(15,0),
   2 DUALJOB(0:ALIM,4)  fixed bin(15,0);
dcl CPS_HOURLYWAGE(NEWYEAR) float dec(6) controlled;
dcl 1 VARIABLES controlled,
   2 ID            float dec(6),        /* ID number of respondent, X(1) */
   2 SAMPLE_ID       float dec(6),        /* sample type, X(1561) */
   2 SEX           float dec(6),
   2 RACE           float dec(6),
   2 BIRTHM_79       float dec(6),
   2 BIRTHD_79       float dec(6),
   2 BIRTHY_79       float dec(6),
   2 BIRTHM_81        float dec(6),
   2 BIRTHD_81        float dec(6),
   2 BIRTHY_81        float dec(6),
   2 OLDHIST(NEWYEAR-1),
    5 OWT           float dec(6),
    5 OLASTINT       float dec(6),
    5 OINT          float dec(6),
    5 OINTM          float dec(6),
    5 OINTD          float dec(6),
    5 OINTY          float dec(6),
    5 OJOB(10,47)    float dec(6),
    5 OBTWNJOBS(6,5) float dec(6),
    5 OMILIT(6)      float dec(6),
    5 OCALENDAR(17)  float dec(6),
    5 OLASTSUM(8)    float dec(6),
    5 OJOBEVER      float dec(6),
   2 WORK_HISTORY(NEWYEAR:NEWYEAR),
    5 WEIGHT,                      /* sampling weight   */
    5 LASTINT,                     /* week number of last interview */
    5 INT,                         /* week number of current interview */
    5 INTM,                        /* month of the interview */
    5 INTD,                        /* day of the interview */
    5 INTY,                        /* year of the interview */
    5 JOB(10),                     /* 10 possible jobs for each interview */
     10 START,                     /* starting week of the job */
     10 STARTM,                    /* starting month of the job */
     10 STARTD,                    /* starting day of the job */
     10 STARTY,                    /* starting year of the job */
     10 STOP,                      /* stopping week of the job */
     10 STOPM,                     /* stopping month of the job */
     10 STOPD,                     /* stopping day of the job */
     10 STOPY,                     /* stopping year of the job */
     10 PAST,                      /* has R worked at job before last interview */
     10 CURRENT,                   /* working at job at interview date */
     10 WHYLEFT,                   /* reason left job if not currently working */
```

```
  10 CPSJOB,                  /* is this job same as the cps job */
  10 HOURSWEEK,               /* usual hours per week at this job */
  10 OCCUPATION,              /* usual occupation at this job */
  10 INDUSTRY,                /* usual industry at this job */
  10 CLASSWORKER,             /* class of worker at this job */
  10 HOURDAY,                 /* usual hours per day worked at this job */
  10 PAYRATE,                 /* usual wage or salary at this job */
  10 TIMERATE,                /* time unit to interpret payrate */
  10 HOURLYWAGE,              /* usual wage converted to hourly wage */
  10 UNION,                   /* wages set by collective bargaining */
  10 GOVTJOB,                 /* is this job government-sponsored */
  10 WEEKSNOTWORKED,          /* any weeks not working at this job */
  10 PERIOD_IN_JOB(4),        /* information on each period not working */
    15 PERIODSTART,           /* starting wk number of period not working */
    15 PERIODSTOP,            /* stopping wk number of period not working */
    15 REASON,                /* reason not working for this period */
    15 ALL,                   /* how much time unemployed in this period */
    15 LOOK,                  /* number of weeks unemployed in this period */
  10 PREVIOUSEMP#,            /* job number of employer from last int */
  10 PRETEN,                  /* months worked for employer before lastint */
  10 TENURE,                  /* total weeks tenure as of interview date */
  10 NUMBER,                  /* job number which is loaded into 'A' array */
 5 BETWEEN_JOBS(6),           /* information about periods not working between jobs and military
   service */
  10 BSTART,                  /* week started this period not working */
  10 BSTOP,                   /* week stopped this period not working */
  10 BALL,                    /* how much of period not worked unemployed */
  10 BLOOK,                   /* number of weeks unemployed in this period */
  10 BREASON,                 /* reason not looking for work this period */
 5 MILITARY,                  /* information about active military service */
  10 MSTART1,                 /* starting week of first period of service */
  10 MSTART2,                 /* starting week of second period of service */
  10 MSTOP1,                  /* stopping week of first period of service */
  10 MSTOP2,                  /* stopping week of second period of service */
  10 MILWKSL,                 /* weeks active military service as of int */
  10 MILWKSC,                 /* weeks active military service in the calendar year */
 5 CALENDAR_YEAR_SUM,         /* key variables for the calendar year */
  10 WORKC,                   /* weeks worked in the calendar year */
  10 HOURC,                   /* hours worked in the calendar year */
  10 WUMPC,                   /* weeks unemployed in the calendar year */
  10 WOLFC,                   /* weeks out of labor force in calendar year */
  10 CAL_YEAR_JOBS,           /* number of jobs in the calendar year */
  10 CAL_YEAR_JOB#(10),       /* job numbers in the calendar year */
  10 MISSC,                   /* % of weeks unaccounted for in year */
  10 NWMISSC,                 /* % weeks not employed that can't be split */
 5 LASTINT_SUM,               /* key variables calculated since last int */
  10 LASTINT_JOBS,            /* number of jobs since last interview */
  10 WORKL,                   /* number of weeks worked since last int */
  10 HOURL,                   /* number of hours worked since last int */
  10 WUMPL,                   /* number of weeks unemployed since last int */
  10 WOLFL,                   /* weeks out of labor force since last int */
  10 WBID,                    /* number of weeks since last int */
  10 MISSL,                   /* % of weeks unaccounted for since last int */
  10 NWMISSL,                 /* % weeks not employed that can't be split */
  10 JOBEVER;                 /* number of different jobs ever held */
```

```
dcl (NA,DK,MAX,MAXYEAR,MAXDUAL,MAXINT,PR,SURVEY_YR,
    P,LEAP,FILLER,F,DUP,DUA,DIV,NEWYEAR,FLAG,#WEEKS)  float dec(6);
dcl(kount,kountadd,kountnew,kountold,kount_out,kount_XVR) fixed bin(15);
dcl (kountfix,WTZERO,TBL_CNT) fixed bin(15);


NA=-4; DK=-3; X(1)=0;  TABLE_ID=0; ENDVARS=0; /* eof flag for varsnyr */
kount=0; kountadd=0; kountnew=0; kountold=0; kount_out=0; kount_XVR=0; kountfix=0; WTZERO=0;
         MAX=0; MAXYEAR=100; MAXDUAL=0; MAXINT=0;
allocate VARIABLES, STRUCTIN, XSTRUCT, XVARS, CPS_HOURLYWAGE;


1READ1:  read file (WORKTAP) into (STRUCTIN);
      read file (OLDXVAR) into (XSTRUCT);
 kount=kount+1;
 ID=INFO(1);
 XVARS.PUBLICID = ID;       /*** PUBLIC ID FOR XVAR ***/
 SAMPLE_ID=INFO(2);
 SEX=INFO(3);
 RACE=INFO(4);
 BIRTHM_79=INFO(5);          BIRTHD_79=INFO(6);          BIRTHY_79=INFO(7);
 BIRTHM_81=INFO(8);          BIRTHD_81=INFO(9);          BIRTHY_81=INFO(10);
 A=0; HOUR=0; DUALJOB=0;

  do J=0 to OLDA;  /* copy old array info into the current array struct */
   A(J)=ARRAY1(J); HOUR(J)=ARRAY2(J);
   do K = 1 to 4;
     DUALJOB(J,K) = ARRAY3(J,K);
   end;
  end;

 OLDHIST=HISTYRS, by NAME;
/* hand edits for 1990 only  */
 if ID=642 then do;
   OLDHIST.OJOB(11,1,12)=1;                OLDHIST.OJOB(11,1,14)=728;
   OLDHIST.OJOB(11,1,15)=902;
 end;
 if ID=1663 then do;
   OLDHIST.OJOB(11,1,12)=1;                OLDHIST.OJOB(11,1,14)=69;
 end;
 if ID=1738 then do;
   OLDHIST.OJOB(11,1,12)=1;                OLDHIST.OJOB(11,1,14)=748;
   OLDHIST.OJOB(11,1,15)=280;              OLDHIST.OJOB(11,1,16)=1;
 end;
 if ID=2466 then do;
   OLDHIST.OJOB(11,1,12)=1;                OLDHIST.OJOB(11,1,14)=328;
   OLDHIST.OJOB(11,1,15)=486;              OLDHIST.OJOB(11,1,16)=1;
 end;
 if ID=2484 then do;
   OLDHIST.OJOB(11,1,12)=1;                OLDHIST.OJOB(11,1,14)=669;
   OLDHIST.OJOB(11,1,15)=910;              OLDHIST.OJOB(11,1,16)=2;
 end;
 if ID=2669 then do; OLDHIST.OJOB(11,1,12)=1; end;
 if ID=2850 then do;
   OLDHIST.OJOB(11,1,12)=1;                OLDHIST.OJOB(11,1,14)=858;
   OLDHIST.OJOB(11,1,15)=153;              OLDHIST.OJOB(11,1,16)=1;
 end;
 if ID=2926 then do;
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   OLDHIST.OJOB(11,1,12)=1;          OLDHIST.OJOB(11,1,14)=857;
   OLDHIST.OJOB(11,1,15)=142;        OLDHIST.OJOB(11,1,16)=1;
end;
if ID=3305 then do;
   OLDHIST.OJOB(11,1,12)=1;          OLDHIST.OJOB(11,1,14)=669;
   OLDHIST.OJOB(11,1,15)=915;        OLDHIST.OJOB(11,1,16)=1;
end;
if ID=3313 then do;
   OLDHIST.OJOB(11,1,12)=1;          OLDHIST.OJOB(11,1,14)=737;
   OLDHIST.OJOB(11,1,15)=902;        OLDHIST.OJOB(11,1,16)=1;
end;
if ID=3584 then do;
   OLDHIST.OJOB(11,1,12)=1;          OLDHIST.OJOB(11,1,14)=358;
   OLDHIST.OJOB(11,1,15)=262;        OLDHIST.OJOB(11,1,16)=3;
end;
if ID=3786 then do; OLDHIST.OJOB(11,1,12)=1; end;
if ID=3943 then do;
   OLDHIST.OJOB(11,1,12)=1;          OLDHIST.OJOB(11,1,14)=728;
   OLDHIST.OJOB(11,1,15)=902;        OLDHIST.OJOB(11,1,16)=1;
end;
if ID=4002 then do;
   OLDHIST.OJOB(11,1,12)=1;          OLDHIST.OJOB(11,1,14)=858;
   OLDHIST.OJOB(11,1,15)=142;        OLDHIST.OJOB(11,1,16)=1;
end;
if ID=4089 then do;
   OLDHIST.OJOB(11,1,12)=1;          OLDHIST.OJOB(11,1,14)=769;
   OLDHIST.OJOB(11,1,15)=984;        OLDHIST.OJOB(11,1,16)=3;
end;
if ID=4294 then do;
   OLDHIST.OJOB(11,1,12)=1;          OLDHIST.OJOB(11,1,14)=-3;
   OLDHIST.OJOB(11,1,15)=-3;         OLDHIST.OJOB(11,1,16)=-3;
end;
if ID=4450 then do;
   OLDHIST.OJOB(11,1,12)=1;          OLDHIST.OJOB(11,1,14)=717;
   OLDHIST.OJOB(11,1,15)=326;        OLDHIST.OJOB(11,1,16)=1;
end;
if ID=4489 then do;
   OLDHIST.OJOB(11,1,12)=1;          OLDHIST.OJOB(11,1,14)=417;
   OLDHIST.OJOB(11,1,15)=715;        OLDHIST.OJOB(11,1,16)=1;
end;
if ID=4524 then do;
   OLDHIST.OJOB(11,1,12)=1;          OLDHIST.OJOB(11,1,14)=807;
   OLDHIST.OJOB(11,1,15)=185;        OLDHIST.OJOB(11,1,16)=3;
end;
if ID=4934 then do;
   OLDHIST.OJOB(11,1,12)=1;          OLDHIST.OJOB(11,1,14)=669;
   OLDHIST.OJOB(11,1,15)=230;        OLDHIST.OJOB(11,1,16)=1;
end;
if ID=5014 then do;
   OLDHIST.OJOB(11,1,12)=1;          OLDHIST.OJOB(11,1,14)=839;
   OLDHIST.OJOB(11,1,15)=925;        OLDHIST.OJOB(11,1,16)=1;
end;
if ID=5331 then do;
   OLDHIST.OJOB(11,1,12)=1;          OLDHIST.OJOB(11,1,14)=748;
   OLDHIST.OJOB(11,1,15)=391;        OLDHIST.OJOB(11,1,16)=3;
end;
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if ID=5504 then do;
  OLDHIST.OJOB(11,1,12)=1;        OLDHIST.OJOB(11,1,14)=448;
  OLDHIST.OJOB(11,1,15)=552;      OLDHIST.OJOB(11,1,16)=3;
end;
if ID=5674 then do;
  OLDHIST.OJOB(11,1,12)=1;        OLDHIST.OJOB(11,1,14)=769;
  OLDHIST.OJOB(11,1,15)=980;      OLDHIST.OJOB(11,1,16)=1;
end;
if ID=5709 then do;
  OLDHIST.OJOB(11,1,12)=1;        OLDHIST.OJOB(11,1,14)=-3;
  OLDHIST.OJOB(11,1,15)=-3;       OLDHIST.OJOB(11,1,16)=-3;
end;
if ID=5925 then do;
  OLDHIST.OJOB(11,1,12)=1;        OLDHIST.OJOB(11,1,14)=907;
  OLDHIST.OJOB(11,1,15)=753;      OLDHIST.OJOB(11,1,16)=2;
end;
if ID=5951 then do;
  OLDHIST.OJOB(11,1,12)=1;        OLDHIST.OJOB(11,1,14)=777;
  OLDHIST.OJOB(11,1,15)=902;      OLDHIST.OJOB(11,1,16)=1;
end;
if ID=5957 then do;
  OLDHIST.OJOB(11,1,12)=1;        OLDHIST.OJOB(11,1,14)=348;
  OLDHIST.OJOB(11,1,15)=381;
end;
if ID=6074 then do;
  OLDHIST.OJOB(11,1,12)=1;        OLDHIST.OJOB(11,1,14)=-3;
  OLDHIST.OJOB(11,1,15)=-3;       OLDHIST.OJOB(11,1,16)=-3;
end;
if ID=6081 then do; OLDHIST.OJOB(11,1,12)=1; end;
if ID=6121 then do;
  OLDHIST.OJOB(11,1,12)=1;        OLDHIST.OJOB(11,1,14)=-3;
  OLDHIST.OJOB(11,1,15)=-3;       OLDHIST.OJOB(11,1,16)=-3;
end;
if ID=6302 then do;
  OLDHIST.OJOB(11,1,12)=1;        OLDHIST.OJOB(11,1,14)=-3;
  OLDHIST.OJOB(11,1,15)=-3;       OLDHIST.OJOB(11,1,16)=-3;
end;
if ID=6493 then do;
  OLDHIST.OJOB(11,1,12)=1;        OLDHIST.OJOB(11,1,14)=669;
  OLDHIST.OJOB(11,1,15)=913;      OLDHIST.OJOB(11,1,16)=1;
end;
if ID=6719 then do;
  OLDHIST.OJOB(11,1,12)=1;        OLDHIST.OJOB(11,1,14)=-3;
  OLDHIST.OJOB(11,1,15)=-3;       OLDHIST.OJOB(11,1,16)=-3;
end;
if ID=6834 then do; OLDHIST.OJOB(11,1,12)=1; end;
if ID=6867 then do;
  OLDHIST.OJOB(11,1,12)=1;        OLDHIST.OJOB(11,1,14)=19;
  OLDHIST.OJOB(11,1,15)=755;      OLDHIST.OJOB(11,1,16)=1;
end;
if ID=7111 then do;
  OLDHIST.OJOB(11,1,12)=1;        OLDHIST.OJOB(11,1,14)=769;
  OLDHIST.OJOB(11,1,15)=980;      OLDHIST.OJOB(11,1,16)=3;
end;
if ID=7353 then do;
  OLDHIST.OJOB(11,1,12)=1;        OLDHIST.OJOB(11,1,14)=288;
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  OLDHIST.OJOB(11,1,15)=705;           OLDHIST.OJOB(11,1,16)=1;
end;
if ID=7614 then do;
  OLDHIST.OJOB(11,1,12)=1;             OLDHIST.OJOB(11,1,14)=737;
  OLDHIST.OJOB(11,1,15)=602;           OLDHIST.OJOB(11,1,16)=1;
end;
if ID=7801 then do;
  OLDHIST.OJOB(11,1,12)=1;             OLDHIST.OJOB(11,1,14)=777;
  OLDHIST.OJOB(11,1,15)=902;           OLDHIST.OJOB(11,1,16)=1;
end;
if ID=7818 then do;
  OLDHIST.OJOB(11,1,12)=1;             OLDHIST.OJOB(11,1,14)=907;
  OLDHIST.OJOB(11,1,15)=331;           OLDHIST.OJOB(11,1,16)=2;
end;
if ID=7960 then do;
  OLDHIST.OJOB(11,1,12)=1;             OLDHIST.OJOB(11,1,14)=19;
  OLDHIST.OJOB(11,1,15)=755;           OLDHIST.OJOB(11,1,16)=3;
end;
if ID=7980 then do;
  OLDHIST.OJOB(11,1,12)=1;             OLDHIST.OJOB(11,1,14)=848;
  OLDHIST.OJOB(11,1,15)=75;            OLDHIST.OJOB(11,1,16)=2;
end;
if ID=8028 then do; OLDHIST.OJOB(11,1,12)=1; end;
if ID=8044 then do;
  OLDHIST.OJOB(11,1,12)=1;             OLDHIST.OJOB(11,1,14)=-3;
  OLDHIST.OJOB(11,1,15)=-3;            OLDHIST.OJOB(11,1,16)=-3;
end;
if ID=8111 then do;
  OLDHIST.OJOB(11,1,12)=1;             OLDHIST.OJOB(11,1,15)=143;
end;
if ID=8132 then do;
  OLDHIST.OJOB(11,1,12)=1;             OLDHIST.OJOB(11,1,15)=332;
end;
if ID=8353 then do;
  OLDHIST.OJOB(11,1,12)=1;             OLDHIST.OJOB(11,1,14)=857;
  OLDHIST.OJOB(11,1,15)=942;           OLDHIST.OJOB(11,1,16)=1;
end;
if ID=8374 then do;
  OLDHIST.OJOB(11,1,12)=1;             OLDHIST.OJOB(11,1,14)=319;
  OLDHIST.OJOB(11,1,15)=663;           OLDHIST.OJOB(11,1,16)=1;
end;
if ID=8992 then do;
  OLDHIST.OJOB(11,1,12)=1;             OLDHIST.OJOB(11,1,14)=737;
  OLDHIST.OJOB(11,1,15)=755;           OLDHIST.OJOB(11,1,16)=1;
end;
if ID=9539 then do; OLDHIST.OJOB(11,1,12)=1; end;
if ID=9919 then do;
  OLDHIST.OJOB(11,1,12)=1;             OLDHIST.OJOB(11,1,14)=-3;
  OLDHIST.OJOB(11,1,15)=-3;            OLDHIST.OJOB(11,1,16)=-3;
end;
if ID=9949 then do; OLDHIST.OJOB(11,1,12)=1; end;
if ID=10062 then do;
  OLDHIST.OJOB(11,1,12)=1;             OLDHIST.OJOB(11,1,14)=305;
  OLDHIST.OJOB(11,1,15)=609;           OLDHIST.OJOB(11,1,16)=1;
end;
if ID=10587 then do;
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      OLDHIST.OJOB(11,1,12)=1;            OLDHIST.OJOB(11,1,15)=902;
    end;
    if ID=10908 then do;
      OLDHIST.OJOB(11,1,12)=1;            OLDHIST.OJOB(11,1,14)=902;
      OLDHIST.OJOB(11,1,15)=728;          OLDHIST.OJOB(11,1,16)=1;
    end;
    if ID=11817 then do;
      OLDHIST.OJOB(11,1,12)=1;            OLDHIST.OJOB(11,1,14)=751;
      OLDHIST.OJOB(11,1,15)=718;          OLDHIST.OJOB(11,1,16)=1;
    end;
    if ID=12470 then do;
      OLDHIST.OJOB(11,1,12)=1;            OLDHIST.OJOB(11,1,14)=408;
      OLDHIST.OJOB(11,1,15)=708;          OLDHIST.OJOB(11,1,16)=2;
    end;
    if ID=12476 then do;
      OLDHIST.OJOB(11,1,12)=1;            OLDHIST.OJOB(11,1,14)=877;
      OLDHIST.OJOB(11,1,15)=372;          OLDHIST.OJOB(11,1,16)=1;
    end;
    if ID=12495 then do; OLDHIST.OJOB(11,1,12)=1; end;
    if ID=2699 then do; OLDHIST.OJOB(11,1,12)=1; end;
    if ID=3719 then do;
      OLDHIST.OJOB(11,1,12)=1;            OLDHIST.OJOB(11,1,14)=777;
      OLDHIST.OJOB(11,1,15)=902;          OLDHIST.OJOB(11,1,16)=1;
    end;
    if ID=6381 then do;
      OLDHIST.OJOB(11,1,12)=1;            OLDHIST.OJOB(11,1,14)=-3;
      OLDHIST.OJOB(11,1,15)=-3;           OLDHIST.OJOB(11,1,16)=-3;
    end;
    if ID=2656 then do;
      OLDHIST.OJOB(11,1,12)=1;            OLDHIST.OJOB(11,1,14)=297;
      OLDHIST.OJOB(11,1,15)=310;          OLDHIST.OJOB(11,1,16)=1;
    end;
    if ID=5125 then do; OLDHIST.OJOB(11,1,12)=1; end;
    if ID=8701 then do;
      OLDHIST.OJOB(11,1,12)=1;            OLDHIST.OJOB(11,1,14)=628;
      OLDHIST.OJOB(11,1,15)=762;          OLDHIST.OJOB(11,1,16)=3;
    end;
    if ID=2918 then do;
      OLDHIST.OJOB(11,1,12)=1;            OLDHIST.OJOB(11,1,14)=-3;
      OLDHIST.OJOB(11,1,15)=265;          OLDHIST.OJOB(11,1,16)=2;
    end;
    if ID=5209 then do;
      OLDHIST.OJOB(11,1,12)=1;            OLDHIST.OJOB(11,1,14)=718;
      OLDHIST.OJOB(11,1,15)=751;          OLDHIST.OJOB(11,1,16)=3;
    end;
    if ID=7964 then do;
      OLDHIST.OJOB(11,1,12)=1;            OLDHIST.OJOB(11,1,14)=119;
      OLDHIST.OJOB(11,1,15)=305;
    end;
    if ID=3101 then do;
      OLDHIST.OJOB(11,2,12)=1;            OLDHIST.OJOB(11,2,14)=927;
      OLDHIST.OJOB(11,2,15)=91;           OLDHIST.OJOB(11,2,16)=2;
    end;

    if ID=67 | ID=348 | ID=3169 | ID=3181 | ID=5274 | ID=7784 | ID=8090 | ID=8203 | ID=8223 | ID=11218 then
          do;
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    OLDHIST.OJOB(10,1,18)=999995;          OLDHIST.OJOB(10,1,20)=-4;
 end;
 if ID=67 | ID=8521 | ID=9752 then do;
   OLDHIST.OJOB(10,2,18)=999995;          OLDHIST.OJOB(10,2,20)=-4;
 end;
 if ID=67 | ID=218 | ID=348 | ID=1620 | ID=2954 | ID=3015 | ID=3169 | ID=3170 | ID=3181 | ID=6808 |
         ID=7784 | ID=8203 | ID=8223 | ID=8454 | ID=9373 | ID=12101 then do;
   OLDHIST.OJOB(11,1,20)=-4;
 end;
 if ID=1103 | ID=3730 | ID=11218 then do; OLDHIST.OJOB(11,2,20)=-4; end;
 /* end hand edits for 1990 only */

 if ( (TABLE_ID < ID) & (ENDVARS=0)) then do;
   do WHILE ( (TABLE_ID<ID) & (ENDVARS=0) );
     get file (IDTABLE) edit(TABLE_ID,NORCIDS) (COL(10),F(7),F(7));
     TBL_CNT=TBL_CNT+1;
   end;
   if ( (X(1) < NORCIDS) & (ENDVARS=0) ) then do;
    get file (VARSNYR) edit(VARYR) (2998(F(8)));
   end;
 end;
 kountnew=kountnew+1;

 if (NORCIDS^=X(1)) then go to SKIPME;
 NORCID   = X(  1);  /* case identification number           */
 IS05    = X(2067);  /* military status at last interview      */
 Q0828   = X( 163);  /* R serving in military at last interview  */
 Q0841   = X( 169);  /* is R currently in the active forces  (curamil) */
 Q0868   = X( 182);  /* when sworn in,did R enter active forces?(curamil) */
 Q0843   = X( 170);  /* month R separated from armed srvc branch   */
 Q0845   = X( 171);  /* year R separated from armed srvcs branch   */
 Q0849   = X( 173);  /* day of separation                  */
 Q0856   = X( 176);  /* branch R sworn into                  */
 Q0862   = X( 179);  /* R currently serving most recent branch     */
 Q0864   = X( 180);  /* month R entered most recent branch      */
 Q0866   = X( 181);  /* year R entered most recent branch       */
 Q0870   = X( 183);  /* day R entered active forces          */
 Q0872   = X( 184);  /* did R serve any time on active duty?    */
 Q0874   = X( 185);  /* mo_ entered active-not currently serving  */
 Q0876   = X( 186);  /* day entered active-not currently serving  */
 Q0878   = X( 187);  /* yr R entered active-not currntly serving  */
 Q0911   = X( 189);  /* month separated from military        */
 Q0913   = X( 190);  /* day R separated from military        */
 Q0915   = X( 191);  /* year R separated from the military      */
 Q1171   = X( 272);  /* type of industry worked for         */
 Q1174   = X( 273);  /* type of work doing last week         */
 Q1215   = X( 277);  /* category of industry R worked for      */
 Q1221   = X( 280);  /* number of hours per week usually work    */
 Q1227   = X( 283);  /* num hrs/wk worked at job-home hrs incl    */
 Q1517   = X( 378);  /* month began most recnt non-emplymnt per_  */
 Q1519   = X( 379);  /* day began most recent non-employmnt per_  */
 Q1521   = X( 380);  /* year began most recent non-emplymnt per_  */
 Q1523   = X( 381);  /* month ended most recent non-emplymnt per_  */
 Q1525   = X( 382);  /* day ended most recent non-employmnt per_  */
 Q1527   = X( 383);  /* year ended most recent non-emplymnt per_  */
 Q1529   = X( 384);  /* period 1:# weeks looking for work,layoff  */
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Q1540  = X( 388);   /* period1 number of weeks looking,layoff    */
Q1546  = X( 390);   /* period1 reason not looking                */
Q1550  = X( 392);   /* month began 2nd recnt non-emplymnt per_   */
Q1552  = X( 393);   /* day began 2nd recent non-employmnt per_   */
Q1554  = X( 394);   /* year R began 2nd recnt non-emplymnt per_  */
Q1556  = X( 395);   /* month ended 2nd recent non-emplymnt per_  */
Q1558  = X( 396);   /* day ended 2nd recent non-emplymnt per_    */
Q1560  = X( 397);   /* year ended 2nd recent non-emplymnt per_   */
Q1562  = X( 398);   /* period 2:# weeks looking for work,layoff  */
Q1609  = X( 402);   /* period2 number of weeks looking,layoff    */
Q1615  = X( 404);   /* period2 reason not looking                */
Q1619  = X( 406);   /* month began 3rd recent non-emplymnt per_  */
Q1621  = X( 407);   /* day began 3rd recent non-employment per_  */
Q1623  = X( 408);   /* year began 3rd recent non-employmnt per_  */
Q1625  = X( 409);   /* month ended 3rd recent non-emplymnt per_  */
Q1627  = X( 410);   /* day ended 3rd recent non-employment per_  */
Q1629  = X( 411);   /* year ended 3rd recent non-employmnt per_  */
Q1631  = X( 412);   /* period 3:# weeks looking for work,layoff  */
Q1642  = X( 416);   /* period3 number of weeks looking,layoff    */
Q1648  = X( 418);   /* period3 reason not looking                */
Q1652  = X( 420);   /* month began 4th recent non-emplymnt per_  */
Q1654  = X( 421);   /* day began 4th recent non-employment per_  */
Q1656  = X( 422);   /* year began 4th recent non-emplymnt per_   */
Q1658  = X( 423);   /* month ended 4th recent non-emplymnt per_  */
Q1660  = X( 424);   /* day ended 4th recent non-employment per_  */
Q1662  = X( 425);   /* year ended 4th recent non-emplymnt per_   */
Q1664  = X( 426);   /* period 4:# weeks looking for work,layoff  */
Q1709  = X( 430);   /* period4 number of weeks looking,layoff    */
Q1715  = X( 432);   /* period4 reason not looking                */
Q7215  = X(2026);   /* month of interview                        */
Q7217  = X(2027);   /* day of interview                          */
QB149  = X(2307);   /* employer # from item  6                   */
QB161  = X(2313);   /* employer # from item  7                   */
QB169  = X(2317);   /* code for date in question 3 (esb_4)       */
QB173  = X(2319);   /* tot mnths wrking before date last intrvw  */
QB175  = X(2320);   /* month last interview                      */
QB177  = X(2321);   /* day   last interview                      */
QB179  = X(2322);   /* year  last interview                      */
QB209  = X(2323);   /* currently working for this employer       */
QB211  = X(2324);   /* month R stopped working for employer      */
QB213  = X(2325);   /* day R stopped working for employer        */
QB215  = X(2326);   /* year R stopped working for employer       */
QB217  = X(2327);   /* reason R happened to leave this job       */
QB237  = X(2337);   /* periods of week/more not working          */
QB241  = X(2339);   /* begin month gap within job period 1       */
QB243  = X(2340);   /* begin day gap within job period 1         */
QB245  = X(2341);   /* begin year gap within job period 1        */
QB247  = X(2342);   /* ending month gap within job period 1      */
QB249  = X(2343);   /* ending day gap within job period 1        */
QB251  = X(2344);   /* ending year gap within job period 1       */
QB253  = X(2345);   /* reason not working                        */
QB255  = X(2346);   /* R looking for wrk some,none,or all weeks  */
QB266  = X(2350);   /* # of wks looking for work or on layoff    */
QB309  = X(2354);   /* begin month gap within job period 2       */
QB311  = X(2355);   /* begin day gap within job period 2         */
QB313  = X(2356);   /* begin year gap within job period 2        */
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QB315  = X(2357);  /* ending month gap within job period 2     */
QB317  = X(2358);  /* ending day gap within job period 2      */
QB319  = X(2359);  /* ending year gap within job period 2     */
QB321  = X(2360);  /* reason not working                  */
QB323  = X(2361);  /* R looking for wrk some,none,or all weeks   */
QB334  = X(2365);  /* # of wks looking or on layoff period 2    */
QB344  = X(2369);  /* begin month gap within job period 3      */
QB346  = X(2370);  /* begin day gap within job period 3      */
QB348  = X(2371);  /* begin year gap within job period 3      */
QB350  = X(2372);  /* ending month gap within job period 3     */
QB352  = X(2373);  /* ending day gap within job period 3      */
QB354  = X(2374);  /* ending year gap within job period 3     */
QB356  = X(2375);  /* reason not working                  */
QB358  = X(2376);  /* R looking for wrk some,none,or all weeks   */
QB369  = X(2380);  /* # of wks looking or on layoff period 3    */
QB439  = X(2399);  /* nmbr of hours/day R worked at this job    */
QB441  = X(2400);  /* is this employer recorded in Q_24 sec 5   */
QB443  = X(2401);  /* number of hrs/week R worked at this job    */
QB449  = X(2404);  /* num hrs/wk worked at job-home hrs incl    */
QB451  = X(2405);  /* R wk 10 hr or more a wk?               */
QB455  = X(2407);  /* R's occupation code                  */
QB458  = X(2408);  /* R's industry code                   */
QB461  = X(2409);  /* R's employment category             */
QB467  = X(2412);  /* amt R was paid including tips,bonus,etc_   */
QB473  = X(2413);  /* amount paid - cents, job #1            */
QB475  = X(2414);  /* pay period for R on job               */
QB534  = X(2426);  /* R work more than 30 hrs-wk at this job    */
QB558  = X(2438);  /* R's wages set by collective bargaining    */
QB560  = X(2439);  /* is/was R a member of a union/emp assctn    */
QC149  = X(2446);  /* employer # from item  6              */
QC161  = X(2452);  /* employer # from item  7              */
QC169  = X(2456);  /* code for date in question 3 (esb_4)     */
QC173  = X(2458);  /* tot mnths wrking before date last intrvw   */
QC175  = X(2459);  /* month last interview                  */
QC177  = X(2460);  /* day   last interview                 */
QC179  = X(2461);  /* year  last interview                 */
QC209  = X(2462);  /* currently working for this employer     */
QC211  = X(2463);  /* month R stopped working for employer     */
QC213  = X(2464);  /* day R stopped working for employer      */
QC215  = X(2465);  /* year R stopped working for employer     */
QC217  = X(2466);  /* reason R happened to leave this job     */
QC237  = X(2476);  /* periods of week/more not working       */
QC241  = X(2478);  /* begin month gap within job period 1     */
QC243  = X(2479);  /* begin day gap within job period 1      */
QC245  = X(2480);  /* begin year gap within job period 1      */
QC247  = X(2481);  /* ending month gap within job period 1     */
QC249  = X(2482);  /* ending day gap within job period 1      */
QC251  = X(2483);  /* ending year gap within job period 1     */
QC253  = X(2484);  /* reason not working                  */
QC255  = X(2485);  /* R looking for wrk some,none,or all weeks   */
QC266  = X(2489);  /* # of wks looking for work or on layoff    */
QC309  = X(2493);  /* begin month gap within job period 2     */
QC311  = X(2484);  /* begin day gap within job period 2      */
QC313  = X(2495);  /* begin year gap within job period 2      */
QC315  = X(2496);  /* ending month gap within job period 2     */
QC317  = X(2497);  /* ending day gap within job period 2      */
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QC319  = X(2498);  /* ending year gap within job period 2      */
QC321  = X(2499);  /* reason not working                       */
QC323  = X(2500);  /* R looking for wrk some,none,or all weeks  */
QC334  = X(2504);  /* # of wks looking or on layoff period 2    */
QC344  = X(2508);  /* begin month gap within job period 3       */
QC346  = X(2509);  /* begin day gap within job period 3         */
QC348  = X(2510);  /* begin year gap within job period 3        */
QC350  = X(2511);  /* ending month gap within job period 3      */
QC352  = X(2512);  /* ending day gap within job period 3        */
QC354  = X(2513);  /* ending year gap within job period 3       */
QC356  = X(2514);  /* reason not working                       */
QC358  = X(2515);  /* R looking for wrk some,none,or all weeks  */
QC369  = X(2519);  /* # of wks looking or on layoff period 3    */
QC439  = X(2538);  /* nmbr of hours/day R worked at this job    */
QC441  = X(2539);  /* is this employer recorded in Q_24 sec 5   */
QC443  = X(2540);  /* number of hrs/week R worked at this job   */
QC449  = X(2543);  /* num hrs/wk worked at job-home hrs incl    */
QC451  = X(2544);  /* R wk 10 hr or more a wk?                  */
QC455  = X(2546);  /* R's occupation code                      */
QC458  = X(2547);  /* R's industry code                        */
QC461  = X(2548);  /* R's employment category                  */
QC467  = X(2551);  /* amt R was paid including tips,bonus,etc_  */
QC473  = X(2552);  /* amount paid - cents, job #1              */
QC475  = X(2553);  /* pay period for R on job                  */
QC534  = X(2565);  /* R work more than 30 hrs-wk at this job    */
QC558  = X(2577);  /* R's wages set by collective bargaining    */
QC560  = X(2578);  /* is/was R a member of a union/emp assctn   */
QD149  = X(2585);  /* employer # from item  6                  */
QD161  = X(2591);  /* employer # from item  7                  */
QD169  = X(2595);  /* code for date in question 3 (esb_4)       */
QD173  = X(2597);  /* tot mnths wrking before date last intrvw  */
QD175  = X(2598);  /* month last interview                     */
QD177  = X(2599);  /* day   last interview                     */
QD179  = X(2600);  /* year  last interview                     */
QD209  = X(2601);  /* currently working for this employer       */
QD211  = X(2602);  /* month R stopped working for employer      */
QD213  = X(2603);  /* day R stopped working for employer        */
QD215  = X(2604);  /* year R stopped working for employer       */
QD217  = X(2605);  /* reason R happened to leave this job       */
QD237  = X(2615);  /* periods of week/more not working          */
QD241  = X(2617);  /* begin month gap within job period 1       */
QD243  = X(2618);  /* begin day gap within job period 1         */
QD245  = X(2619);  /* begin year gap within job period 1        */
QD247  = X(2620);  /* ending month gap within job period 1      */
QD249  = X(2621);  /* ending day gap within job period 1        */
QD251  = X(2622);  /* ending year gap within job period 1       */
QD253  = X(2623);  /* reason not working                       */
QD255  = X(2624);  /* R looking for wrk some,none,or all weeks  */
QD266  = X(2628);  /* # of wks looking for work or on layoff    */
QD309  = X(2632);  /* begin month gap within job period 2       */
QD311  = X(2633);  /* begin day gap within job period 2         */
QD313  = X(2634);  /* begin year gap within job period 2        */
QD315  = X(2635);  /* ending month gap within job period 2      */
QD317  = X(2636);  /* ending day gap within job period 2        */
QD319  = X(2637);  /* ending year gap within job period 2       */
QD321  = X(2638);  /* reason not working                       */
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QD323   = X(2639);   /* R looking for wrk some,none,or all weeks   */
QD334   = X(2643);   /* # of wks looking or on layoff period 2      */
QD344   = X(2647);   /* begin month gap within job period 3        */
QD346   = X(2678);   /* begin day gap within job period 3          */
QD348   = X(2649);   /* begin year gap within job period 3         */
QD350   = X(2650);   /* ending month gap within job period 3       */
QD352   = X(2651);   /* ending day gap within job period 3         */
QD354   = X(2652);   /* ending year gap within job period 3        */
QD356   = X(2653);   /* reason not working                         */
QD358   = X(2654);   /* R looking for wrk some,none,or all weeks   */
QD369   = X(2658);   /* # of wks looking or on layoff period 3     */
QD439   = X(2677);   /* nmbr of hours/day R worked at this job     */
QD441   = X(2678);   /* is this employer recorded in Q_24 sec 5    */
QD443   = X(2679);   /* number of hrs/week R worked at this job    */
QD449   = X(2682);   /* num hrs/wk worked at job-home hrs incl     */
QD451   = X(2683);   /* R wk 10 hr or more a wk?                    */
QD455   = X(2685);   /* R's occupation code                        */
QD458   = X(2686);   /* R's industry code                          */
QD461   = X(2687);   /* R's employment category                    */
QD467   = X(2690);   /* amt R was paid including tips,bonus,etc_   */
QD473   = X(2691);   /* amount paid - cents, job #1                */
QD475   = X(2692);   /* pay period for R on job                    */
QD534   = X(2704);   /* R work more than 30 hrs-wk at this job     */
QD558   = X(2716);   /* R's wages set by collective bargaining     */
QD560   = X(2717);   /* is/was R a member of a union/emp assctn    */
QE149   = X(2724);   /* employer # from item  6                    */
QE161   = X(2730);   /* employer # from item  7                    */
QE169   = X(2734);   /* code for date in question 3 (esb_4)        */
QE173   = X(2736);   /* tot mnths wrking before date last intrvw   */
QE175   = X(2737);   /* month last interview                       */
QE177   = X(2738);   /* day   last interview                       */
QE179   = X(2739);   /* year  last interview                       */
QE209   = X(2740);   /* currently working for this employer        */
QE211   = X(2741);   /* month R stopped working for employer       */
QE213   = X(2742);   /* day R stopped working for employer         */
QE215   = X(2743);   /* year R stopped working for employer        */
QE217   = X(2744);   /* reason R happened to leave this job        */
QE237   = X(2754);   /* periods of week/more not working           */
QE241   = X(2756);   /* begin month gap within job period 1        */
QE243   = X(2757);   /* begin day gap within job period 1          */
QE245   = X(2758);   /* begin year gap within job period 1         */
QE247   = X(2759);   /* ending month gap within job period 1       */
QE249   = X(2760);   /* ending day gap within job period 1         */
QE251   = X(2761);   /* ending year gap within job period 1        */
QE253   = X(2762);   /* reason not working                         */
QE255   = X(2763);   /* R looking for wrk some,none,or all weeks   */
QE266   = X(2767);   /* # of wks looking for work or on layoff     */
QE309   = X(2771);   /* begin month gap within job period 2        */
QE311   = X(2772);   /* begin day gap within job period 2          */
QE313   = X(2773);   /* begin year gap within job period 2         */
QE315   = X(2774);   /* ending month gap within job period 2       */
QE317   = X(2775);   /* ending day gap within job period 2         */
QE319   = X(2776);   /* ending year gap within job period 2        */
QE321   = X(2777);   /* reason not working                         */
QE323   = X(2778);   /* R looking for wrk some,none,or all weeks   */
QE334   = X(2782);   /* # of wks looking or on layoff period 2     */
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QE344  = X(2786);  /* begin month gap within job period 3      */
QE346  = X(2787);  /* begin day gap within job period 3        */
QE348  = X(2788);  /* begin year gap within job period 3       */
QE350  = X(2789);  /* ending month gap within job period 3      */
QE352  = X(2790);  /* ending day gap within job period 3       */
QE354  = X(2791);  /* ending year gap within job period 3      */
QE356  = X(2792);  /* reason not working                */
QE358  = X(2793);  /* R looking for wrk some,none,or all weeks  */
QE369  = X(2797);  /* # of wks looking or on layoff period 3    */
QE439  = X(2816);  /* nmbr of hours/day R worked at this job    */
QE441  = X(2817);  /* is this employer recorded in Q_24 sec 5   */
QE443  = X(2818);  /* number of hrs/week R worked at this job   */
QE449  = X(2821);  /* num hrs/wk worked at job-home hrs incl    */
QE451  = X(2822);  /* R wk 10 hr or more a wk?            */
QE455  = X(2824);  /* R's occupation code               */
QE458  = X(2825);  /* R's industry code              */
QE461  = X(2826);  /* R's employment category            */
QE467  = X(2829);  /* amt R was paid including tips,bonus,etc_   */
QE473  = X(2830);  /* amount paid - cents, job #1         */
QE475  = X(2831);  /* pay period for R on job            */
QE534  = X(2843);  /* R work more than 30 hrs-wk at this job    */
QE558  = X(2855);  /* R's wages set by collective bargaining     */
QE560  = X(2856);  /* is/was R a member of a union/emp assctn    */
QF149  = X(2863);  /* employer # from item  6            */
QF161  = X(2869);  /* employer # from item  7            */
QF169  = X(2873);  /* code for date in question 3 (esb_4)       */
QF173  = X(2875);  /* tot mnths wrking before date last intrvw   */
QF175  = X(2876);  /* month last interview              */
QF177  = X(2877);  /* day   last interview              */
QF179  = X(2878);  /* year  last interview              */
QF209  = X(2879);  /* currently working for this employer       */
QF211  = X(2880);  /* month R stopped working for employer      */
QF213  = X(2881);  /* day R stopped working for employer       */
QF215  = X(2882);  /* year R stopped working for employer       */
QF217  = X(2883);  /* reason R happened to leave this job      */
QF237  = X(2893);  /* periods of week/more not working        */
QF241  = X(2895);  /* begin month gap within job period 1      */
QF243  = X(2896);  /* begin day gap within job period 1        */
QF245  = X(2897);  /* begin year gap within job period 1       */
QF247  = X(2898);  /* ending month gap within job period 1      */
QF249  = X(2899);  /* ending day gap within job period 1       */
QF251  = X(2900);  /* ending year gap within job period 1      */
QF253  = X(2901);  /* reason not working                */
QF255  = X(2902);  /* R looking for wrk some,none,or all weeks  */
QF266  = X(2906);  /* # of wks looking for work or on layoff    */
QF309  = X(2910);  /* begin month gap within job period 2      */
QF311  = X(2911);  /* begin day gap within job period 2        */
QF313  = X(2912);  /* begin year gap within job period 2       */
QF315  = X(2913);  /* ending month gap within job period 2      */
QF317  = X(2914);  /* ending day gap within job period 2       */
QF319  = X(2915);  /* ending year gap within job period 2      */
QF321  = X(2916);  /* reason not working                */
QF323  = X(2917);  /* R looking for wrk some,none,or all weeks  */
QF334  = X(2921);  /* # of wks looking or on layoff period 2    */
QF344  = X(2925);  /* begin month gap within job period 3      */
QF346  = X(2926);  /* begin day gap within job period 3        */
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QF348   = X(2927);   /* begin year gap within job period 3        */
QF350   = X(2928);   /* ending month gap within job period 3      */
QF352   = X(2929);   /* ending day gap within job period 3        */
QF354   = X(2930);   /* ending year gap within job period 3       */
QF356   = X(2931);   /* reason not working                        */
QF358   = X(2932);   /* R looking for wrk some,none,or all weeks  */
QF369   = X(2936);   /* # of wks looking or on layoff period 3    */
QF439   = X(2955);   /* nmbr of hours/day R worked at this job    */
QF441   = X(2956);   /* is this employer recorded in Q_24 sec 5   */
QF443   = X(2958);   /* number of hrs/week R worked at this job   */
QF449   = X(2960);   /* num hrs/wk worked at job-home hrs incl    */
QF451   = X(2961);   /* R wk 10 hr or more a wk?                  */
QF455   = X(2963);   /* R's occupation code                       */
QF458   = X(2964);   /* R's industry code                         */
QF461   = X(2965);   /* R's employment category                   */
QF467   = X(2968);   /* amt R was paid including tips,bonus,etc_  */
QF473   = X(2969);   /* amount paid - cents, job #1               */
QF475   = X(2970);   /* pay period for R on job                   */
QF534   = X(2982);   /* R work more than 30 hrs-wk at this job    */
QF558   = X(2994);   /* R's wages set by collective bargaining    */
QF560   = X(2995);   /* is/was R a member of a union/emp assctn   */
WT90    = X(2997);   /* weight for 90                             */


/*  rewrites to 1990 data tape */
if ID=167 | ID=5631 | ID=5768 then QB441=0;
if ID=167 | ID=399 | ID=1654 | ID=2843 | ID=3165 | ID=3377 | ID=3469 | ID=4826 | ID=5642 | ID=5768 |
          ID=6031 | ID=6545 | ID=7628 | ID=8760 | ID=8856 | ID=8871 | ID=12068 then QC441=0;
if ID=3377 | ID=4826 | ID=6545 then QD441=0;
if ID=167 | ID=6545 then QE441=0;
if ID=3617 then do; Q7215=-3; Q7217=-3; end;
/* end rewrite to 1990 data tape */

SKIPME:
  PR=1;
  do J=2 to NEWYEAR-1;
    if OLDHIST(J).OWT > 0 then PR=J;
  end;
  WORK_HISTORY(NEWYEAR)=-4;
  CPS_HOURLYWAGE(NEWYEAR)=-4;
  if (NORCIDS^=X(1)) then WT90 = 0; /* skipme: missing newyear w.h. data */
  if WT90 < 0 then WT90 = 0;
  WEIGHT(NEWYEAR)=WT90;
  if WEIGHT(NEWYEAR)=0 then do;
    CPS_HOURLYWAGE(NEWYEAR)=-5;
    WORK_HISTORY(NEWYEAR)=-5;
    WEIGHT(NEWYEAR)=0 ;
    WTZERO=WTZERO+1;
  end;
  else do;
    call NEWVARIABLES;      /* read addjob variables */
    call CALC(NEWYEAR);
    call SUMMER(NEWYEAR);
    do I = 1 to 5;  /** compute cps hourly wage **/
      if CPSJOB(NEWYEAR,I)=1 then CPS_HOURLYWAGE(NEWYEAR) =
        HOURLYWAGE(NEWYEAR,I);
    end;
```

```
    /*** compute current jobever() ***/
    JOBEVER(NEWYEAR)=0;          /* find greatest job cnt in hold hist */
    do I = (NEWYEAR-1) to 1 by -1 WHILE(JOBEVER(NEWYEAR)=0);
      if OLDHIST(I).OJOBEVER= -3 then JOBEVER(NEWYEAR)=-3;
      else if OLDHIST(I).OJOBEVER>0 then JOBEVER(NEWYEAR)=OLDHIST(I).OJOBEVER;
    end;
    if JOBEVER(NEWYEAR)>=0 then do; /* add any additional jobs ?        */
      do I=1 to 10;
        if (NUMBER(NEWYEAR,I)>100 & (PREVIOUSEMP#(NEWYEAR,I)=-3 |
          PREVIOUSEMP#(NEWYEAR,I)=0) ) then JOBEVER(NEWYEAR)=-3;
        else if (NUMBER(NEWYEAR,I)>100 & PREVIOUSEMP#(NEWYEAR,I)=-4 &
          JOBEVER(NEWYEAR)>=0 )
          then JOBEVER(NEWYEAR)=JOBEVER(NEWYEAR)+1;
      end;
    end;
  end;

  write file(NEWXVAR) from (XVARS);
  kount_XVR=kount_XVR+1;
  write file(NEWWORK) from (VARIABLES);
  kount_out=kount_out+1;
  put file(OUTDISK) edit (ID,MILWKSL(NEWYEAR),MILWKSC(NEWYEAR),WORKC(NEWYEAR),
        HOURC(NEWYEAR),WUMPC(NEWYEAR),WOLFC(NEWYEAR),MISSC(NEWYEAR),
        WORKL(NEWYEAR),HOURL(NEWYEAR),WUMPL(NEWYEAR),WOLFL(NEWYEAR),
        WBID(NEWYEAR),MISSL(NEWYEAR),CPS_HOURLYWAGE(NEWYEAR),
        HOURLYWAGE(NEWYEAR,1),HOURLYWAGE(NEWYEAR,2),
        HOURLYWAGE(NEWYEAR,3),HOURLYWAGE(NEWYEAR,4),
        HOURLYWAGE(NEWYEAR,5),JOBEVER(NEWYEAR))(COL(1),21(F(7)));
  go to READ1;  /*** MAIN LOOP ***/

1NEWVARIABLES:PROC;
 dcl ADDJVBLS(681) float dec(6);
STARTM(NEWYEAR,1)=QB175;          STARTD(NEWYEAR,1)=QB177;
STARTY(NEWYEAR,1)=QB179;          STARTM(NEWYEAR,2)=QC175;
STARTD(NEWYEAR,2)=QC177;          STARTY(NEWYEAR,2)=QC179;
STARTM(NEWYEAR,3)=QD175;          STARTD(NEWYEAR,3)=QD177;
STARTY(NEWYEAR,3)=QD179;          STARTM(NEWYEAR,4)=QE175;
STARTD(NEWYEAR,4)=QE177;          STARTY(NEWYEAR,4)=QE179;
STARTM(NEWYEAR,5)=QF175;          STARTD(NEWYEAR,5)=QF177;
STARTY(NEWYEAR,5)=QF179;          STOPM(NEWYEAR,1)=QB211;
STOPD(NEWYEAR,1)=QB213;           STOPY(NEWYEAR,1)=QB215;
STOPM(NEWYEAR,2)=QC211;           STOPD(NEWYEAR,2)=QC213;
STOPY(NEWYEAR,2)=QC215;           STOPM(NEWYEAR,3)=QD211;
STOPD(NEWYEAR,3)=QD213;           STOPY(NEWYEAR,3)=QD215;
STOPM(NEWYEAR,4)=QE211;           STOPD(NEWYEAR,4)=QE213;
STOPY(NEWYEAR,4)=QE215;           STOPM(NEWYEAR,5)=QF211;
STOPD(NEWYEAR,5)=QF213;           STOPY(NEWYEAR,5)=QF215;
LASTINT(NEWYEAR)=
  CEIL(WEEK(OLDHIST(PR).OINTM,OLDHIST(PR).OINTD,OLDHIST(PR).OINTY)+1/7);
INT(NEWYEAR)=FLOOR(WEEK(Q7215,Q7217,SURVEY_YR));
INTM(NEWYEAR)=Q7215;
INTD(NEWYEAR)=Q7217;
 /* if int(newyear)=-3 then int(newyear)=-3; */
if WEIGHT(NEWYEAR)>0 then INTY(NEWYEAR)=SURVEY_YR;
HOURDAY(NEWYEAR,1)=QB439;       HOURDAY(NEWYEAR,2)=QC439;
```

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HOURDAY(NEWYEAR,3)=QD439;        HOURDAY(NEWYEAR,4)=QE439;
HOURDAY(NEWYEAR,5)=QF439;
PAYRATE(NEWYEAR,1)=QB467;        PAYRATE(NEWYEAR,2)=QC467;
PAYRATE(NEWYEAR,3)=QD467;        PAYRATE(NEWYEAR,4)=QE467;
PAYRATE(NEWYEAR,5)=QF467;
TIMERATE(NEWYEAR,1)=QB475;       TIMERATE(NEWYEAR,2)=QC475;
TIMERATE(NEWYEAR,3)=QD475;       TIMERATE(NEWYEAR,4)=QE475;
TIMERATE(NEWYEAR,5)=QF475;
UNION(NEWYEAR,1)=QB558;          UNION(NEWYEAR,2)=QC558;
UNION(NEWYEAR,3)=QD558;          UNION(NEWYEAR,4)=QE558;
UNION(NEWYEAR,5)=QF558;
GOVTJOB(NEWYEAR,1)=-4;           GOVTJOB(NEWYEAR,2)=-4;
GOVTJOB(NEWYEAR,3)=-4;           GOVTJOB(NEWYEAR,4)=-4;
GOVTJOB(NEWYEAR,5)=-4;
if QB149>-4 then PREVIOUSEMP#(NEWYEAR,1)=QB149; else PREVIOUSEMP#(NEWYEAR,1)=QB161;
if QC149>-4 then PREVIOUSEMP#(NEWYEAR,2)=QC149; else PREVIOUSEMP#(NEWYEAR,2)=QC161;
if QD149>-4 then PREVIOUSEMP#(NEWYEAR,3)=QD149; else PREVIOUSEMP#(NEWYEAR,3)=QD161;
if QE149>-4 then PREVIOUSEMP#(NEWYEAR,4)=QE149; else PREVIOUSEMP#(NEWYEAR,4)=QE161;
if QF149>-4 then PREVIOUSEMP#(NEWYEAR,5)=QF149; else PREVIOUSEMP#(NEWYEAR,5)=QF161;
PRETEN(NEWYEAR,1)=QB173;         PRETEN(NEWYEAR,2)=QC173;
PRETEN(NEWYEAR,3)=QD173;         PRETEN(NEWYEAR,4)=QE173;
PRETEN(NEWYEAR,5)=QF173;
if QB175>-4 then do;
  START(NEWYEAR,1)=WEEK(QB175,QB177,QB179);
  STOP(NEWYEAR,1)=WEEK(QB211,QB213,QB215);
end;
if QC175>-4 then do;
  START(NEWYEAR,2)=WEEK(QC175,QC177,QC179);
  STOP(NEWYEAR,2)=WEEK(QC211,QC213,QC215);
end;
if QD175>-4 then do;
  START(NEWYEAR,3)=WEEK(QD175,QD177,QD179);
  STOP(NEWYEAR,3)=WEEK(QD211,QD213,QD215);
end;
if QE175>-4 then do;
  START(NEWYEAR,4)=WEEK(QE175,QE177,QE179);
  STOP(NEWYEAR,4)=WEEK(QE211,QE213,QE215);
end;
if QF175>-4 then do;
  START(NEWYEAR,5)=WEEK(QF175,QF177,QF179);
  STOP(NEWYEAR,5)=WEEK(QF211,QF213,QF215);
end;


PAST(NEWYEAR,1)=QB169;                   PAST(NEWYEAR,2)=QC169;
PAST(NEWYEAR,3)=QD169;                   PAST(NEWYEAR,4)=QE169;
PAST(NEWYEAR,5)=QF169;
CURRENT(NEWYEAR,1)=QB209;                CURRENT(NEWYEAR,2)=QC209;
CURRENT(NEWYEAR,3)=QD209;                CURRENT(NEWYEAR,4)=QE209;
CURRENT(NEWYEAR,5)=QF209;
WHYLEFT(NEWYEAR,1)=QB217;                WHYLEFT(NEWYEAR,2)=QC217;
WHYLEFT(NEWYEAR,3)=QD217;                WHYLEFT(NEWYEAR,4)=QE217;
WHYLEFT(NEWYEAR,5)=QF217;
WEEKSNOTWORKED(NEWYEAR,1)=QB237;         WEEKSNOTWORKED(NEWYEAR,2)=QC237;
WEEKSNOTWORKED(NEWYEAR,3)=QD237          WEEKSNOTWORKED(NEWYEAR,4)=QE237;
WEEKSNOTWORKED(NEWYEAR,5)=QF237;
CPSJOB(NEWYEAR,1)=QB441;                 CPSJOB(NEWYEAR,2)=QC441;
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CPSJOB(NEWYEAR,3)=QD441;                    CPSJOB(NEWYEAR,4)=QE441;
CPSJOB(NEWYEAR,5)=QF441;
if QB441=1 then do;
  INDUSTRY(NEWYEAR,1)=Q1171;                OCCUPATION(NEWYEAR,1)=Q1174;
  CLASSWORKER(NEWYEAR,1)=Q1215;
  if Q1227=-4 then HOURSWEEK(NEWYEAR,1)=Q1221;
  else if Q1227^=-4 then HOURSWEEK(NEWYEAR,1)=Q1227;
end;
else do;
  INDUSTRY(NEWYEAR,1)=QB458;                OCCUPATION(NEWYEAR,1)=QB455;
  CLASSWORKER(NEWYEAR,1)=QB461;
  if QB449=-4 then HOURSWEEK(NEWYEAR,1)=QB443;
  else if QB449^=-4 then HOURSWEEK(NEWYEAR,1)=QB449;
end;
if QC441=1 then do;
  INDUSTRY(NEWYEAR,2)=Q1171;                OCCUPATION(NEWYEAR,2)=Q1174;
  CLASSWORKER(NEWYEAR,2)=Q1215;
  if Q1227=-4 then HOURSWEEK(NEWYEAR,2)=Q1221;
  else if Q1227^=-4 then HOURSWEEK(NEWYEAR,2)=Q1227;
end;
else do;
  INDUSTRY(NEWYEAR,2)=QC458;                OCCUPATION(NEWYEAR,2)=QC455;
  CLASSWORKER(NEWYEAR,2)=QC461;
  if QC449=-4 then HOURSWEEK(NEWYEAR,2)=QC443;
  else if QC449^=-4 then HOURSWEEK(NEWYEAR,2)=QC449;
end;
if QD441=1 then do;
  INDUSTRY(NEWYEAR,3)=Q1171;                OCCUPATION(NEWYEAR,3)=Q1174;
  CLASSWORKER(NEWYEAR,3)=Q1215;
  if Q1227=-4 then HOURSWEEK(NEWYEAR,3)=Q1221;
  else if Q1227^=-4 then HOURSWEEK(NEWYEAR,3)=Q1227;
end;
else do;
  INDUSTRY(NEWYEAR,3)=QD458;                OCCUPATION(NEWYEAR,3)=QD455;
  CLASSWORKER(NEWYEAR,3)=QD461;
  if QD449=-4 then HOURSWEEK(NEWYEAR,3)=QD443;
  else if QD449^=-4 then HOURSWEEK(NEWYEAR,3)=QD449;
end;
if QE441=1 then do;
  INDUSTRY(NEWYEAR,4)=Q1171;                OCCUPATION(NEWYEAR,4)=Q1174;
  CLASSWORKER(NEWYEAR,4)=Q1215;
  if Q1227=-4 then HOURSWEEK(NEWYEAR,4)=Q1221;
  else if Q1227^=-4 then HOURSWEEK(NEWYEAR,4)=Q1227;
end;
else do;
  INDUSTRY(NEWYEAR,4)=QE458;                OCCUPATION(NEWYEAR,4)=QE455;
  CLASSWORKER(NEWYEAR,4)=QE461;
  if QE449=-4 then HOURSWEEK(NEWYEAR,4)=QE443;
  else if QE449^=-4 then HOURSWEEK(NEWYEAR,4)=QE449;
end;
if QF441=1 then do;
  INDUSTRY(NEWYEAR,5)=Q1171;                OCCUPATION(NEWYEAR,5)=Q1174;
  CLASSWORKER(NEWYEAR,5)=Q1215;
  if Q1227=-4 then HOURSWEEK(NEWYEAR,5)=Q1221;
  else if Q1227^=-4 then HOURSWEEK(NEWYEAR,5)=Q1227;
end;
```

```
else do;
  INDUSTRY(NEWYEAR,5)=QF458;                    OCCUPATION(NEWYEAR,5)=QF455;
  CLASSWORKER(NEWYEAR,5)=QF461;
  if QF449=-4 then HOURSWEEK(NEWYEAR,5)=QF443;
  else if QF449^=-4 then HOURSWEEK(NEWYEAR,5)=QF449;
end;
if QB241>-4 then do;
  PERIODSTART(NEWYEAR,1,1)=WEEK(QB241,QB243,QB245);
  PERIODSTOP(NEWYEAR,1,1)=WEEK(QB247,QB249,QB251);
end;
if QB309>-4 then do;
  PERIODSTART(NEWYEAR,1,2)=WEEK(QB309,QB311,QB313);
  PERIODSTOP(NEWYEAR,1,2)=WEEK(QB315,QB317,QB319);
end;
if QB344>-4 then do;
  PERIODSTART(NEWYEAR,1,3)=WEEK(QB344,QB346,QB348);
  PERIODSTOP(NEWYEAR,1,3)=WEEK(QB350,QB352,QB354);
end;
if QC241>-4 then do;
  PERIODSTART(NEWYEAR,2,1)=WEEK(QC241,QC243,QC245);
  PERIODSTOP(NEWYEAR,2,1)=WEEK(QC247,QC249,QC251);
end;
if QC309>-4 then do;
  PERIODSTART(NEWYEAR,2,2)=WEEK(QC309,QC311,QC313);
  PERIODSTOP(NEWYEAR,2,2)=WEEK(QC315,QC317,QC319);
end;
if QC344>-4 then do;
  PERIODSTART(NEWYEAR,2,3)=WEEK(QC344,QC346,QC348);
  PERIODSTOP(NEWYEAR,2,3)=WEEK(QC350,QC352,QC354);
end;
if QD241>-4 then do;
  PERIODSTART(NEWYEAR,3,1)=WEEK(QD241,QD243,QD245);
  PERIODSTOP(NEWYEAR,3,1)=WEEK(QD247,QD249,QD251);
end;
if QD309>-4 then do;
  PERIODSTART(NEWYEAR,3,2)=WEEK(QD309,QD311,QD313);
  PERIODSTOP(NEWYEAR,3,2)=WEEK(QD315,QD317,QD319);
end;
if QD344>-4 then do;
  PERIODSTART(NEWYEAR,3,3)=WEEK(QD344,QD346,QD348);
  PERIODSTOP(NEWYEAR,3,3)=WEEK(QD350,QD352,QD354);
end;
if QE241>-4 then do;
  PERIODSTART(NEWYEAR,4,1)=WEEK(QE241,QE243,QE245);
  PERIODSTOP(NEWYEAR,4,1)=WEEK(QE247,QE249,QE251);
end;
if QE309>-4 then do;
  PERIODSTART(NEWYEAR,4,2)=WEEK(QE309,QE311,QE313);
  PERIODSTOP(NEWYEAR,4,2)=WEEK(QE315,QE317,QE319);
end;
if QE344>-4 then do;
  PERIODSTART(NEWYEAR,4,3)=WEEK(QE344,QE346,QE348);
  PERIODSTOP(NEWYEAR,4,3)=WEEK(QE350,QE352,QE354);
end;
if QF241>-4 then do;
  PERIODSTART(NEWYEAR,5,1)=WEEK(QF241,QF243,QF245);
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    PERIODSTOP(NEWYEAR,5,1)=WEEK(QF247,QF249,QF251);
  end;
  if QF309>-4 then do;
    PERIODSTART(NEWYEAR,5,2)=WEEK(QF309,QF311,QF313);
    PERIODSTOP(NEWYEAR,5,2)=WEEK(QF315,QF317,QF319);
  end;
  if QF344>-4 then do;
    PERIODSTART(NEWYEAR,5,3)=WEEK(QF344,QF346,QF348);
    PERIODSTOP(NEWYEAR,5,3)=WEEK(QF350,QF352,QF354);
  end;
  REASON(NEWYEAR,1,1)=QB253;          REASON(NEWYEAR,1,2)=QB321;
  REASON(NEWYEAR,1,3)=QB356;          REASON(NEWYEAR,2,1)=QC253;
  REASON(NEWYEAR,2,2)=QC321;          REASON(NEWYEAR,2,3)=QC356;
  REASON(NEWYEAR,3,1)=QD253;          REASON(NEWYEAR,3,2)=QD321;
  REASON(NEWYEAR,3,3)=QD356;          REASON(NEWYEAR,4,1)=QE253;
  REASON(NEWYEAR,4,2)=QE321;          REASON(NEWYEAR,4,3)=QE356;
  REASON(NEWYEAR,5,1)=QF253;          REASON(NEWYEAR,5,2)=QF321;
  REASON(NEWYEAR,5,3)=QF356;
  ALL(NEWYEAR,1,1)=QB255;             ALL(NEWYEAR,1,2)=QB323;
  ALL(NEWYEAR,1,3)=QB358;             ALL(NEWYEAR,2,1)=QC255;
  ALL(NEWYEAR,2,2)=QC323;             ALL(NEWYEAR,2,3)=QC358;
  ALL(NEWYEAR,3,1)=QD255;             ALL(NEWYEAR,3,2)=QD323;
  ALL(NEWYEAR,3,3)=QD358;             ALL(NEWYEAR,4,1)=QE255;
  ALL(NEWYEAR,4,2)=QE323;             ALL(NEWYEAR,4,3)=QE358;
  ALL(NEWYEAR,5,1)=QF255;             ALL(NEWYEAR,5,2)=QF323;
  ALL(NEWYEAR,5,3)=QF358;
  LOOK(NEWYEAR,1,1)=QB266;            LOOK(NEWYEAR,1,2)=QB334;
  LOOK(NEWYEAR,1,3)=QB369;            LOOK(NEWYEAR,2,1)=QC266;
  LOOK(NEWYEAR,2,2)=QC334;            LOOK(NEWYEAR,2,3)=QC369;
  LOOK(NEWYEAR,3,1)=QD266;            LOOK(NEWYEAR,3,2)=QD334;
  LOOK(NEWYEAR,3,3)=QD369;            LOOK(NEWYEAR,4,1)=QE266;
  LOOK(NEWYEAR,4,2)=QE334;            LOOK(NEWYEAR,4,3)=QE369;
  LOOK(NEWYEAR,5,1)=QF266;            LOOK(NEWYEAR,5,2)=QF334;
  LOOK(NEWYEAR,5,3)=QF369;

  /*      extra gaps              */
  if ID=466 then do;
    PERIODSTART(NEWYEAR,1,4)=WEEK(4,8,90);    PERIODSTOP(NEWYEAR,1,4)=WEEK(4,14,90);
    REASON(NEWYEAR,1,4)= 2;
  end;
  if ID=931 then do;
    PERIODSTART(NEWYEAR,2,4)=WEEK(1,1,88);    PERIODSTOP(NEWYEAR,2,4)=WEEK(4,1,88);
    REASON(NEWYEAR,2,4)= 4;                     ALL(NEWYEAR,2,4)=1;
  end;
  if ID=2271 then do;
    PERIODSTART(NEWYEAR,2,4)=WEEK(6,22,90);   PERIODSTOP(NEWYEAR,2,4)=WEEK(6,29,90);
    REASON(NEWYEAR,2,4)= 14;
  end;
  if ID=2379 then do;
    PERIODSTART(NEWYEAR,1,4)=WEEK(3,26,90);   PERIODSTOP(NEWYEAR,1,4)=WEEK(4,17,90);
    REASON(NEWYEAR,1,4)=9;
  end;
  if ID=2736 then do;
    PERIODSTART(NEWYEAR,1,4)=WEEK(8,6,90);    PERIODSTOP(NEWYEAR,1,4)=WEEK(8,22,90);
    REASON(NEWYEAR,1,4)= 2;
  end;
```

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if ID=3080 then do;
  PERIODSTART(NEWYEAR,2,4)=WEEK(2,19,90);   PERIODSTOP(NEWYEAR,2,4)=WEEK(3,9,90);
  REASON(NEWYEAR,2,4)= 11;
end;
if ID=3558 then do;
  PERIODSTART(NEWYEAR,1,4)=WEEK(7,14,90);   PERIODSTOP(NEWYEAR,1,4)=WEEK(8,25,90);
  REASON(NEWYEAR,1,4)= 8;
end;
if ID=3708 then do;
  PERIODSTART(NEWYEAR,2,4)=WEEK(6,6,90);   PERIODSTOP(NEWYEAR,2,4)=WEEK(8,8,90);
  REASON(NEWYEAR,2,4)= 4;            ALL(NEWYEAR,2,4)=1;
end;
if ID=4689 then do;
  PERIODSTART(NEWYEAR,1,4)=WEEK(3,25,90);   PERIODSTOP(NEWYEAR,1,4)=WEEK(3,31,90);
  REASON(NEWYEAR,1,4)= 13;
end;
if ID=4772 then do;
  PERIODSTART(NEWYEAR,1,4)=WEEK(3,25,90);   PERIODSTOP(NEWYEAR,1,4)=WEEK(3,31,90);
  REASON(NEWYEAR,1,4)= 14;
end;
if ID=7929 then do;
  PERIODSTART(NEWYEAR,1,4)=WEEK(1,19,90);   PERIODSTOP(NEWYEAR,1,4)=WEEK(1,26,90);
  REASON(NEWYEAR,1,4)= 14;
end;
if ID=8043 then do;
  PERIODSTART(NEWYEAR,2,4)=WEEK(6,10,90);   PERIODSTOP(NEWYEAR,2,4)=WEEK(6,16,90);
  REASON(NEWYEAR,2,4)= 14;
end;
if ID=8097 then do;
  PERIODSTART(NEWYEAR,1,4)=WEEK(7,13,90);   PERIODSTOP(NEWYEAR,1,4)=WEEK(8,17,90);
  REASON(NEWYEAR,1,4)= 2;
end;
if ID=9138 then do;
  PERIODSTART(NEWYEAR,1,4)=WEEK(6,21,90);   PERIODSTOP(NEWYEAR,1,4)=WEEK(7,1,90);
  REASON(NEWYEAR,1,4)= 2;
end;
if ID=9304 then do;
  PERIODSTART(NEWYEAR,2,4)=WEEK(-3,-3,90);   PERIODSTOP(NEWYEAR,2,4)=WEEK(-3,-3,90);
  REASON(NEWYEAR,2,4)= 14;
end;
if ID=9502 then do;
  PERIODSTART(NEWYEAR,2,4)=WEEK(1,7,90);   PERIODSTOP(NEWYEAR,2,4)=WEEK(1,28,90);
  REASON(NEWYEAR,2,4)= 4;            ALL(NEWYEAR,2,4)=3;
end;
if ID=9991 then do;
  PERIODSTART(NEWYEAR,1,4)=WEEK(9,1,90);   PERIODSTOP(NEWYEAR,1,4)=WEEK(9,9,90);
  REASON(NEWYEAR,1,4)= 13;
end;
if ID=10063 then do;
  PERIODSTART(NEWYEAR,1,4)=WEEK(6,21,90);   PERIODSTOP(NEWYEAR,1,4)=WEEK(7,31,90);
  REASON(NEWYEAR,1,4)= 4;            ALL(NEWYEAR,1,4)=3;
end;
if ID=7541 then do;
  BSTART(NEWYEAR,5) = WEEK(7,15,86);            BSTOP(NEWYEAR,5)  = WEEK(8,1,86);
  BALL(NEWYEAR,5)  = 2;                          BREASON(NEWYEAR,5) = 1;
  BLOOK(NEWYEAR,5)=1;
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 end;
/*     end extra gaps        */

 if Q1517>-4 then do;
   BSTART(NEWYEAR,1)=WEEK(Q1517,Q1519,Q1521);
   BSTOP(NEWYEAR,1)=WEEK(Q1523,Q1525,Q1527);
 end;
 if Q1550>-4 then do;
   BSTART(NEWYEAR,2)=WEEK(Q1550,Q1552,Q1554);
   BSTOP(NEWYEAR,2)=WEEK(Q1556,Q1558,Q1560);
 end;
 if Q1619>-4 then do;
   BSTART(NEWYEAR,3)=WEEK(Q1619,Q1621,Q1623);
   BSTOP(NEWYEAR,3)=WEEK(Q1625,Q1627,Q1629);
 end;
 if Q1652>-4 then do;
   BSTART(NEWYEAR,4)=WEEK(Q1652,Q1654,Q1656);
   BSTOP(NEWYEAR,4)=WEEK(Q1658,Q1660,Q1662);
 end;
 BALL(NEWYEAR,1)=Q1529;           BALL(NEWYEAR,2)=Q1562;
 BALL(NEWYEAR,3)=Q1631;           BALL(NEWYEAR,4)=Q1664;
 BLOOK(NEWYEAR,1)=Q1540;          BLOOK(NEWYEAR,2)=Q1609;
 BLOOK(NEWYEAR,3)=Q1642;          BLOOK(NEWYEAR,4)=Q1709;
 BREASON(NEWYEAR,1)=Q1546;        BREASON(NEWYEAR,2)=Q1615;
 BREASON(NEWYEAR,3)=Q1648;        BREASON(NEWYEAR,4)=Q1715;

 CURAMIL = 0;
 if (Q0841 = 1) | (Q0868 = 1) then CURAMIL = 1;
 if Q0828=1 & IS05>=1 & IS05<=4 then do;
   if CURAMIL=1 then MSTOP1(NEWYEAR)=INT(NEWYEAR);
   else MSTOP1(NEWYEAR)=WEEK(Q0843,Q0849,Q0845);
   MSTART1(NEWYEAR)=LASTINT(NEWYEAR);
   if MSTART1(NEWYEAR)>=0 & MSTOP1(NEWYEAR)>=MSTART1(NEWYEAR) then
     call FILL(MSTART1(NEWYEAR),MSTOP1(NEWYEAR),7,0);
 end;
 if Q0856>=1 & Q0856<=4 then do;
   if Q0862=1 then do;
     MSTART2(NEWYEAR)=WEEK(Q0864,Q0870,Q0866);
     MSTOP2(NEWYEAR)=INT(NEWYEAR);
   end;
   else if Q0872=1 then do;
     MSTART2(NEWYEAR)=WEEK(Q0874,Q0876,Q0878);
     MSTOP2(NEWYEAR)=WEEK(Q0911,Q0913,Q0915);
   end;
   if MSTART2(NEWYEAR)>=0 & MSTOP2(NEWYEAR)>=MSTART2(NEWYEAR) then
     call FILL(MSTART2(NEWYEAR),MSTOP2(NEWYEAR),7,0);
 end;
 if MSTART1(NEWYEAR)>-4 | MSTART2(NEWYEAR)>-4 | MSTOP1(NEWYEAR)>-4
   | MSTOP2(NEWYEAR)>-4 then do;
   if MSTART1(NEWYEAR)=-3 | MSTART2(NEWYEAR)=-3 | MSTOP1(NEWYEAR)=-3
     | MSTOP2(NEWYEAR)=-3 then do;
     MILWKSL(NEWYEAR)=-3;
     MILWKSC(NEWYEAR)=-3;
   end;
  /*  else if MSTART1(NEWYEAR) > MSTOP1(NEWYEAR) | MSTART2(NEWYEAR) >
          MSTOP2(NEWYEAR) then do;
```

```
    MILWKSL(NEWYEAR)=-3;
    MILWKSC(NEWYEAR)=-3;
  end; */
  else do;
    MILWKSL(NEWYEAR)=0;
    MILWKSC(NEWYEAR)=0;
    if MSTART1(NEWYEAR)>=0 then MILWKSL(NEWYEAR)=
      MSTOP1(NEWYEAR) - MSTART1(NEWYEAR) + 1;
    if MSTART2(NEWYEAR)>=0 then MILWKSL(NEWYEAR)=
      MILWKSL(NEWYEAR) + MSTOP2(NEWYEAR) - MSTART2(NEWYEAR) + 1;
    MILWKSL(NEWYEAR)=FLOOR(MILWKSL(NEWYEAR)+.5);
  end;
end;

 /*    additional jobs / employment supplement          */
NUMVAR=136;  /* number of variables in the supplement */

 if ID=1603 |ID=5697 |ID=1659 |ID=3660   |ID=4813 |ID=5275 |ID=7168 |ID=7541 |
   ID=7675 |ID=7918 |ID=8690 |ID=10186 then do;
   read file(ADDJOBS) into (ADDJVBLS);
   kountadd=kountadd+1;
   STARTM(NEWYEAR,6)=ADDJVBLS(20);
   STARTD(NEWYEAR,6)=ADDJVBLS(21);
   STARTY(NEWYEAR,6)=ADDJVBLS(22);
   STARTM(NEWYEAR,7)=ADDJVBLS(NUMVAR+20);
   STARTD(NEWYEAR,7)=ADDJVBLS(NUMVAR+21);
   STARTY(NEWYEAR,7)=ADDJVBLS(NUMVAR+22);
   STARTM(NEWYEAR,8)=ADDJVBLS((2*NUMVAR)+20);
   STARTD(NEWYEAR,8)=ADDJVBLS((2*NUMVAR)+21);
   STARTY(NEWYEAR,8)=ADDJVBLS((2*NUMVAR)+22);
   STARTM(NEWYEAR,9)=ADDJVBLS((3*NUMVAR)+20);
   STARTD(NEWYEAR,9)=ADDJVBLS((3*NUMVAR)+21);
   STARTY(NEWYEAR,9)=ADDJVBLS((3*NUMVAR)+22);
   STARTM(NEWYEAR,10)=ADDJVBLS((4*NUMVAR)+20);
   STARTD(NEWYEAR,10)=ADDJVBLS((4*NUMVAR)+21);
   STARTY(NEWYEAR,10)=ADDJVBLS((4*NUMVAR)+22);
   STOPM(NEWYEAR,6)=ADDJVBLS(24);
   STOPD(NEWYEAR,6)=ADDJVBLS(25);
   STOPY(NEWYEAR,6)=ADDJVBLS(26);
   STOPM(NEWYEAR,7)=ADDJVBLS(NUMVAR+24);
   STOPD(NEWYEAR,7)=ADDJVBLS(NUMVAR+25);
   STOPY(NEWYEAR,7)=ADDJVBLS(NUMVAR+26);
   STOPM(NEWYEAR,8)=ADDJVBLS((2*NUMVAR)+24);
   STOPD(NEWYEAR,8)=ADDJVBLS((2*NUMVAR)+25);
   STOPY(NEWYEAR,8)=ADDJVBLS((2*NUMVAR)+26);
   STOPM(NEWYEAR,9)=ADDJVBLS((3*NUMVAR)+24);
   STOPD(NEWYEAR,9)=ADDJVBLS((3*NUMVAR)+25);
   STOPY(NEWYEAR,9)=ADDJVBLS((3*NUMVAR)+26);
   STOPM(NEWYEAR,10)=ADDJVBLS((4*NUMVAR)+24);
   STOPD(NEWYEAR,10)=ADDJVBLS((4*NUMVAR)+25);
   STOPY(NEWYEAR,10)=ADDJVBLS((4*NUMVAR)+26);
   if ADDJVBLS(7)>-4 then PREVIOUSEMP#(NEWYEAR,6)=ADDJVBLS(7);
   else PREVIOUSEMP#(NEWYEAR,6)=ADDJVBLS(13);
   if ADDJVBLS(143)>-4 then PREVIOUSEMP#(NEWYEAR,7)=ADDJVBLS(143);
   else PREVIOUSEMP#(NEWYEAR,7)=ADDJVBLS(149);
   if ADDJVBLS(279)>-4 then PREVIOUSEMP#(NEWYEAR,8)=ADDJVBLS(279);
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else PREVIOUSEMP#(NEWYEAR,8)=ADDJVBLS(285);
if ADDJVBLS(415)>-4 then PREVIOUSEMP#(NEWYEAR,9)=ADDJVBLS(415);
else PREVIOUSEMP#(NEWYEAR,9)=ADDJVBLS(421);
if ADDJVBLS(551)>-4 then PREVIOUSEMP#(NEWYEAR,10)=ADDJVBLS(551);
else PREVIOUSEMP#(NEWYEAR,10)=ADDJVBLS(557);
PRETEN(NEWYEAR,6)=ADDJVBLS(19);
PRETEN(NEWYEAR,7)=ADDJVBLS(NUMVAR+19);
PRETEN(NEWYEAR,8)=ADDJVBLS((2*NUMVAR)+19);
PRETEN(NEWYEAR,9)=ADDJVBLS((3*NUMVAR)+19);
PRETEN(NEWYEAR,10)=ADDJVBLS((4*NUMVAR)+19);
OCCUPATION(NEWYEAR,6)=ADDJVBLS(107);
OCCUPATION(NEWYEAR,7)=ADDJVBLS(NUMVAR+107);
OCCUPATION(NEWYEAR,8)=ADDJVBLS((2*NUMVAR)+107);
OCCUPATION(NEWYEAR,9)=ADDJVBLS((3*NUMVAR)+107);
OCCUPATION(NEWYEAR,10)=ADDJVBLS((4*NUMVAR)+107);
INDUSTRY(NEWYEAR,6)=ADDJVBLS(108);
INDUSTRY(NEWYEAR,7)=ADDJVBLS(NUMVAR+108);
INDUSTRY(NEWYEAR,8)=ADDJVBLS((2*NUMVAR)+108);
INDUSTRY(NEWYEAR,9)=ADDJVBLS((3*NUMVAR)+108);
INDUSTRY(NEWYEAR,10)=ADDJVBLS((4*NUMVAR)+108);
CLASSWORKER(NEWYEAR,6)=ADDJVBLS(109);
CLASSWORKER(NEWYEAR,7)=ADDJVBLS(NUMVAR+109);
CLASSWORKER(NEWYEAR,8)=ADDJVBLS((2*NUMVAR)+109);
CLASSWORKER(NEWYEAR,9)=ADDJVBLS((3*NUMVAR)+109);
CLASSWORKER(NEWYEAR,10)=ADDJVBLS((4*NUMVAR)+109);
HOURDAY(NEWYEAR,6)=ADDJVBLS(99);
HOURDAY(NEWYEAR,7)=ADDJVBLS(NUMVAR+99);
HOURDAY(NEWYEAR,8)=ADDJVBLS((2*NUMVAR)+99);
HOURDAY(NEWYEAR,9)=ADDJVBLS((3*NUMVAR)+99);
HOURDAY(NEWYEAR,10)=ADDJVBLS((4*NUMVAR)+99);
PAYRATE(NEWYEAR,6)=ADDJVBLS(112);
PAYRATE(NEWYEAR,7)=ADDJVBLS(NUMVAR+112);
PAYRATE(NEWYEAR,8)=ADDJVBLS((2*NUMVAR)+112);
PAYRATE(NEWYEAR,9)=ADDJVBLS((3*NUMVAR)+112);
PAYRATE(NEWYEAR,10)=ADDJVBLS((4*NUMVAR)+112);
TIMERATE(NEWYEAR,6)=ADDJVBLS(113);
TIMERATE(NEWYEAR,7)=ADDJVBLS(NUMVAR+113);
TIMERATE(NEWYEAR,8)=ADDJVBLS((2*NUMVAR)+113);
TIMERATE(NEWYEAR,9)=ADDJVBLS((3*NUMVAR)+113);
TIMERATE(NEWYEAR,10)=ADDJVBLS((4*NUMVAR)+113);
UNION(NEWYEAR,6)=ADDJVBLS(135);
UNION(NEWYEAR,7)=ADDJVBLS(NUMVAR+135);
UNION(NEWYEAR,8)=ADDJVBLS((2*NUMVAR)+135);
UNION(NEWYEAR,9)=ADDJVBLS((3*NUMVAR)+135);
UNION(NEWYEAR,10)=ADDJVBLS((4*NUMVAR)+135);
GOVTJOB(NEWYEAR,6)=-4;
GOVTJOB(NEWYEAR,7)=-4;
GOVTJOB(NEWYEAR,8)=-4;
GOVTJOB(NEWYEAR,9)=-4;
GOVTJOB(NEWYEAR,10)=-4;
N=20;
do J=6 to 10;
  if ADDJVBLS(N)>-4 then do;
    START(NEWYEAR,J)=WEEK(ADDJVBLS(N),ADDJVBLS(N+1),ADDJVBLS(N+2));
    STOP(NEWYEAR,J)=WEEK(ADDJVBLS(N+4),ADDJVBLS(N+5),ADDJVBLS(N+6));
  end;
```

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     N=N+136;
   end;
  N=23;
  do J=6 to 10;
    CURRENT(NEWYEAR,J)=ADDJVBLS(N);
    WHYLEFT(NEWYEAR,J)=ADDJVBLS(N+4);
    if ADDJVBLS(N+81)=-4 then HOURSWEEK(NEWYEAR,J)=ADDJVBLS(N+78);
    else if ADDJVBLS(N+78)>-4 then HOURSWEEK(NEWYEAR,J)=ADDJVBLS(N+78);
    WEEKSNOTWORKED(NEWYEAR,J)=ADDJVBLS(N+14);
    PAST(NEWYEAR,J)=ADDJVBLS(N-6);
    P=N;
    do K=1 to 2;
      if ADDJVBLS(P+15)>-4 then do;
        PERIODSTART(NEWYEAR,J,K)=
          WEEK(ADDJVBLS(P+16),ADDJVBLS(P+17),ADDJVBLS(P+18));
        PERIODSTOP(NEWYEAR,J,K)=
          WEEK(ADDJVBLS(P+19),ADDJVBLS(P+20),ADDJVBLS(P+21));
      end;
      REASON(NEWYEAR,J,K)=ADDJVBLS(P+22);
      ALL(NEWYEAR,J,K)=ADDJVBLS(P+23);
      LOOK(NEWYEAR,J,K)=ADDJVBLS(P+27);
      P=P+15;
    end;
    N=N+136;
  end;
end;
if ID=411 then do;
 STARTM(NEWYEAR,6)=10;          STARTD(NEWYEAR,6)=1;
 STARTY(NEWYEAR,6)=89;          START(NEWYEAR,6)=WEEK(10,1,89);
 STOPM(NEWYEAR,6)=7;            STOPD(NEWYEAR,6)=7;
 STOPY(NEWYEAR,6)=90;           STOP(NEWYEAR,6)=WEEK(7,7,90);
 PREVIOUSEMP#(NEWYEAR,6)=2;     PAST(NEWYEAR,6)=-4;
 PRETEN(NEWYEAR,6)=-4;          CURRENT(NEWYEAR,6)=0;
 WHYLEFT(NEWYEAR,6)=2;          WEEKSNOTWORKED(NEWYEAR,6)=0;
 HOURDAY(NEWYEAR,6)=7;          CPSJOB(NEWYEAR,6)=0;
 HOURSWEEK(NEWYEAR,6)=14;       OCCUPATION(NEWYEAR,6)=911;
 INDUSTRY(NEWYEAR,6)=669;       CLASSWORKER(NEWYEAR,6)=1;
 PAYRATE(NEWYEAR,6)=2500;       TIMERATE(NEWYEAR,6)=2;
 UNION(NEWYEAR,6)=0;            GOVTJOB(NEWYEAR,6)=-4;
 STARTM(NEWYEAR,7)=10;          STARTD(NEWYEAR,7)=1;
 STARTY(NEWYEAR,7)=89;          START(NEWYEAR,7)=WEEK(10,1,89);
 STOPM(NEWYEAR,7)=10;           STOPD(NEWYEAR,7)=15;
 STOPY(NEWYEAR,7)=89;           STOP(NEWYEAR,7)=WEEK(10,15,89);
 PREVIOUSEMP#(NEWYEAR,7)=1;     PAST(NEWYEAR,7)=-4;
 PRETEN(NEWYEAR,7)=-4;          CURRENT(NEWYEAR,7)=0;
 WHYLEFT(NEWYEAR,7)=9;          WEEKSNOTWORKED(NEWYEAR,7)=0;
 HOURDAY(NEWYEAR,7)=10;         CPSJOB(NEWYEAR,7)=0;
 HOURSWEEK(NEWYEAR,7)=50;       OCCUPATION(NEWYEAR,7)=-4;
 INDUSTRY(NEWYEAR,7)=-4;        CLASSWORKER(NEWYEAR,7)=-4;
 PAYRATE(NEWYEAR,7)=12500;      TIMERATE(NEWYEAR,7)=2;
 UNION(NEWYEAR,7)=0;            GOVTJOB(NEWYEAR,7)=-4;
end;
if ID=2165 then do;
 STARTM(NEWYEAR,6)=8;           STARTD(NEWYEAR,6)=29;
 STARTY(NEWYEAR,6)=89;          START(NEWYEAR,6)=WEEK(8,29,89);
 STOPM(NEWYEAR,6)=9;            STOPD(NEWYEAR,6)=15;
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  STOPY(NEWYEAR,6)=90;                      STOP(NEWYEAR,6)=WEEK(9,15,90);
  PREVIOUSEMP#(NEWYEAR,6)=1;                PAST(NEWYEAR,6)=-4;
  PRETEN(NEWYEAR,6)=-4;                     CURRENT(NEWYEAR,6)=0;
  WHYLEFT(NEWYEAR,6)=9;                     WEEKSNOTWORKED(NEWYEAR,6)=0;
  HOURDAY(NEWYEAR,6)=8;                     CPSJOB(NEWYEAR,6)=0;
  HOURSWEEK(NEWYEAR,6)=40;                  OCCUPATION(NEWYEAR,6)=954;
  INDUSTRY(NEWYEAR,6)=887;                  CLASSWORKER(NEWYEAR,6)=1;
  PAYRATE(NEWYEAR,6)=335;                   TIMERATE(NEWYEAR,6)=1;
  UNION(NEWYEAR,6)=0;                       GOVTJOB(NEWYEAR,6)=-4;
  STARTM(NEWYEAR,7)=10;                     STARTD(NEWYEAR,7)=20;
  STARTY(NEWYEAR,7)=89;                     START(NEWYEAR,7)=WEEK(10,20,89);
  STOPM(NEWYEAR,7)=5;                       STOPD(NEWYEAR,7)=15;
  STOPY(NEWYEAR,7)=90;                      STOP(NEWYEAR,7)=WEEK(5,15,90);
  PREVIOUSEMP#(NEWYEAR,7)=-4;               PAST(NEWYEAR,7)=3;
  PRETEN(NEWYEAR,7)=-4;                     CURRENT(NEWYEAR,7)=0;
  WHYLEFT(NEWYEAR,7)=4;                     WEEKSNOTWORKED(NEWYEAR,7)=0;
  HOURDAY(NEWYEAR,7)=8;                     CPSJOB(NEWYEAR,7)=0;
  HOURSWEEK(NEWYEAR,7)=40;                  OCCUPATION(NEWYEAR,7)=954;
  INDUSTRY(NEWYEAR,7)=879;                  CLASSWORKER(NEWYEAR,7)=1;
  PAYRATE(NEWYEAR,7)=500;                   TIMERATE(NEWYEAR,7)=1;
  UNION(NEWYEAR,7)=0;                       GOVTJOB(NEWYEAR,7)=-4;
end;
if ID=4403 then do;
  STARTM(NEWYEAR,6)=11;                     STARTD(NEWYEAR,6)=14;
  STARTY(NEWYEAR,6)=89;                     START(NEWYEAR,6)=WEEK(11,14,89);
  STOPM(NEWYEAR,6)=12;                      STOPD(NEWYEAR,6)=12;
  STOPY(NEWYEAR,6)=89;                      STOP(NEWYEAR,6)=WEEK(12,22,89);
  PREVIOUSEMP#(NEWYEAR,6)=-4;               PAST(NEWYEAR,6)=3;
  PRETEN(NEWYEAR,6)=-4;                     CURRENT(NEWYEAR,6)=0;
  WHYLEFT(NEWYEAR,6)=8;                     WEEKSNOTWORKED(NEWYEAR,6)=0;
  HOURDAY(NEWYEAR,6)=8;                     CPSJOB(NEWYEAR,6)=0;
  HOURSWEEK(NEWYEAR,6)=40;                  OCCUPATION(NEWYEAR,6)=-4;
  INDUSTRY(NEWYEAR,6)=-4;                   CLASSWORKER(NEWYEAR,6)=-4;
  PAYRATE(NEWYEAR,6)=900;                   TIMERATE(NEWYEAR,6)=1;
  UNION(NEWYEAR,6)=0;                       GOVTJOB(NEWYEAR,6)=-4;
  STARTM(NEWYEAR,7)=7;                      STARTD(NEWYEAR,7)=11;
  STARTY(NEWYEAR,7)=89;                     START(NEWYEAR,7)=WEEK(7,11,89);
  STOPM(NEWYEAR,7)=12;                      STOPD(NEWYEAR,7)=16;
  STOPY(NEWYEAR,7)=89;                      STOP(NEWYEAR,7)=WEEK(12,16,89);
  PREVIOUSEMP#(NEWYEAR,7)=1;                PAST(NEWYEAR,7)=-4;
  PRETEN(NEWYEAR,7)=-4;                     CURRENT(NEWYEAR,7)=0;
  WHYLEFT(NEWYEAR,7)=8;                     WEEKSNOTWORKED(NEWYEAR,7)=0;
  HOURDAY(NEWYEAR,7)=9;                     CPSJOB(NEWYEAR,7)=0;
  HOURSWEEK(NEWYEAR,7)=45;                  OCCUPATION(NEWYEAR,7)=762;
  INDUSTRY(NEWYEAR,7)=537;                  CLASSWORKER(NEWYEAR,7)=1;
  PAYRATE(NEWYEAR,7)=135000;                TIMERATE(NEWYEAR,7)=5;
  UNION(NEWYEAR,7)=0;                       GOVTJOB(NEWYEAR,7)=-4;
end;
if ID=6922 then do;
  STARTM(NEWYEAR,6)=12;                     STARTD(NEWYEAR,6)=11;
  STARTY(NEWYEAR,6)=89;                     START(NEWYEAR,6)=WEEK(12,11,89);
  STOPM(NEWYEAR,6)=1;                       STOPD(NEWYEAR,6)=23;
  STOPY(NEWYEAR,6)=90;                      STOP(NEWYEAR,6)=WEEK(1,23,90);
  PREVIOUSEMP#(NEWYEAR,6)=-4;               PAST(NEWYEAR,6)=3;
  PRETEN(NEWYEAR,6)=-4;                     CURRENT(NEWYEAR,6)=0;
  WHYLEFT(NEWYEAR,6)=9;                     WEEKSNOTWORKED(NEWYEAR,6)=0;
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    HOURDAY(NEWYEAR,6)=8;              CPSJOB(NEWYEAR,6)=0;
    HOURSWEEK(NEWYEAR,6)=45;           OCCUPATION(NEWYEAR,6)=-4;
    INDUSTRY(NEWYEAR,6)=-4;            CLASSWORKER(NEWYEAR,6)=-4;
    PAYRATE(NEWYEAR,6)=30000;          TIMERATE(NEWYEAR,6)=3;
    UNION(NEWYEAR,6)=0;                GOVTJOB(NEWYEAR,6)=-4;
    STARTM(NEWYEAR,7)=7;               STARTD(NEWYEAR,7)=7;
    STARTY(NEWYEAR,7)=89;              START(NEWYEAR,7)=WEEK(7,7,89);
    STOPM(NEWYEAR,7)=10;               STOPD(NEWYEAR,7)=27;
    STOPY(NEWYEAR,7)=89;               STOP(NEWYEAR,7)=WEEK(10,27,89);
    PREVIOUSEMP#(NEWYEAR,7)=1;         PAST(NEWYEAR,7)=-4;
    PRETEN(NEWYEAR,7)=-4;              CURRENT(NEWYEAR,7)=0;
    WHYLEFT(NEWYEAR,7)=1;              WEEKSNOTWORKED(NEWYEAR,7)=1;
    PERIODSTART(NEWYEAR,7,1)=WEEK(10,10,89);
    PERIODSTOP(NEWYEAR,7,1)=WEEK(10,23,89);
    REASON(NEWYEAR,7,1)=9;             HOURDAY(NEWYEAR,7)=4;
    CPSJOB(NEWYEAR,7)=0;               HOURSWEEK(NEWYEAR,7)=20;
    OCCUPATION(NEWYEAR,7)=912;         INDUSTRY(NEWYEAR,7)=669;
    CLASSWORKER(NEWYEAR,7)=1;          PAYRATE(NEWYEAR,7)=16000;
    TIMERATE(NEWYEAR,7)=3;             UNION(NEWYEAR,7)=0;
    GOVTJOB(NEWYEAR,7)=-4;             STARTM(NEWYEAR,8)=7;
    STARTD(NEWYEAR,8)=7;               STARTY(NEWYEAR,8)=89;
    START(NEWYEAR,8)=WEEK(7,7,89);     STOPM(NEWYEAR,8)=11;
    STOPD(NEWYEAR,8)=5;                STOPY(NEWYEAR,8)=89;
    STOP(NEWYEAR,8)=WEEK(11,5,89);     PREVIOUSEMP#(NEWYEAR,8)=2;
    PAST(NEWYEAR,8)=-4;                PRETEN(NEWYEAR,8)=-4;
    CURRENT(NEWYEAR,8)=0;              WHYLEFT(NEWYEAR,8)=7;
    WEEKSNOTWORKED(NEWYEAR,8)=1;
    PERIODSTART(NEWYEAR,8,1)=WEEK(10,10,89);
    PERIODSTOP(NEWYEAR,8,1)=WEEK(10,17,89);
    REASON(NEWYEAR,8,1)=9;             HOURDAY(NEWYEAR,8)=8;
    CPSJOB(NEWYEAR,8)=0;               HOURSWEEK(NEWYEAR,8)=25;
    OCCUPATION(NEWYEAR,8)=915;         INDUSTRY(NEWYEAR,8)=669;
    CLASSWORKER(NEWYEAR,8)=1;          PAYRATE(NEWYEAR,8)=1000;
    TIMERATE(NEWYEAR,8)=1;             UNION(NEWYEAR,8)=0;
    GOVTJOB(NEWYEAR,8)=-4;
  end;
  if ID=7266 then do;
    STARTM(NEWYEAR,6)=8;               STARTD(NEWYEAR,6)=30;
    STARTY(NEWYEAR,6)=89;              START(NEWYEAR,6)=WEEK(8,30,89);
    STOPM(NEWYEAR,6)=9;                STOPD(NEWYEAR,6)=1;
    STOPY(NEWYEAR,6)=89;               STOP(NEWYEAR,6)=WEEK(9,1,89);
    PREVIOUSEMP#(NEWYEAR,6)=2;         PAST(NEWYEAR,6)=-4;
    PRETEN(NEWYEAR,6)=-4;              CURRENT(NEWYEAR,6)=0;
    WHYLEFT(NEWYEAR,6)=8;              WEEKSNOTWORKED(NEWYEAR,6)=0;
    HOURDAY(NEWYEAR,6)=4;              CPSJOB(NEWYEAR,6)=0;
    HOURSWEEK(NEWYEAR,6)=20;           OCCUPATION(NEWYEAR,6)=-4;
    INDUSTRY(NEWYEAR,6)=-4;            CLASSWORKER(NEWYEAR,6)=-4;
    PAYRATE(NEWYEAR,6)=678;            TIMERATE(NEWYEAR,6)=1;
    UNION(NEWYEAR,6)=0;                GOVTJOB(NEWYEAR,6)=-4;
  end;
  if ID=7785 then do;
    STARTM(NEWYEAR,6)=2;               STARTD(NEWYEAR,6)=21;
    STARTY(NEWYEAR,6)=82;              START(NEWYEAR,6)=WEEK(2,21,82);
    STOPM(NEWYEAR,6)=6;                STOPD(NEWYEAR,6)=15;
    STOPY(NEWYEAR,6)=82;               STOP(NEWYEAR,6)=WEEK(6,15,82);
    PREVIOUSEMP#(NEWYEAR,6)=1;         PAST(NEWYEAR,6)=-4;
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   PRETEN(NEWYEAR,6)=-4;              CURRENT(NEWYEAR,6)=0;
   WHYLEFT(NEWYEAR,6)=9;              WEEKSNOTWORKED(NEWYEAR,6)=0;
   HOURDAY(NEWYEAR,6)=8;              CPSJOB(NEWYEAR,6)=0;
   HOURSWEEK(NEWYEAR,6)=40;           OCCUPATION(NEWYEAR,6)=933;
   INDUSTRY(NEWYEAR,6)=648;           CLASSWORKER(NEWYEAR,6)=1;
   PAYRATE(NEWYEAR,6)=400;            TIMERATE(NEWYEAR,6)=1;
   UNION(NEWYEAR,6)=0;                GOVTJOB(NEWYEAR,6)=-4;
 end;
 end NEWVARIABLES;


1WEEK:PROC(MONTH,DAY,YEAR) RETURNS(float dec);
/******* The purpose of the week function is to take a date passed to it and to convert that date into a week
          number relative to 1-1-78.  Note that dates prior to 1-1-78 are assigned to week 0, missing days are
          assigned to day 15 of the month and a '-3' is returned if the date is not valid. ********/
dcl (MONTH,DAY,YEAR) float dec(6);
dcl MON(12) float dec(6) INIT(0,31,59,90,120,151,181,212,243,273,304,334);
if YEAR>0 & YEAR<MAXYEAR then MAXYEAR=YEAR;
if YEAR>0 & YEAR<78 then RETURN(0);
else if MONTH>0 & YEAR>0 & DAY<0 then DAY=15;
if MONTH>0 & MONTH<=12 & DAY>0 & DAY<32 & YEAR>=78 & YEAR<97 then do;
  LEAP=0;
  if YEAR>=80 then do;
    LEAP=CEIL((YEAR-80)/4);
    if MOD(YEAR,4)=0 & MONTH>2 then LEAP=LEAP+1;
  end;
  RETURN(((YEAR-78) *365 + MON(MONTH) + DAY + LEAP)/7);
end;
else RETURN(-3);
end WEEK;


1CALC: PROC(YR);
 dcl YR float dec(6);
 dcl CODE float dec(6);
 CODE=-4;
 LASTINT_JOBS(YR)=0;
 do J=1 to 10;
   FLAG=0;
   if START(YR,J)>-4 | STOP(YR,J)>-4 then do;
     LASTINT_JOBS(YR)=LASTINT_JOBS(YR)+1;
     NUMBER(YR,J)=YR*100+J;
     HOURLYWAGE(YR,J)=HRP(J);
     if PAST(YR,J)=1 | PAST(YR,J)=2 then START(YR,J)=LASTINT(YR);
     if CURRENT(YR,J)=1 then STOP(YR,J)=INT(YR);
     else if STOP(YR,J)>0 & STOP(YR,J)>INT(YR) then STOP(YR,J)=INT(YR);
     if START(YR,J)>=0 & STOP(YR,J)>=START(YR,J) then do;
       START(YR,J)=CEIL(START(YR,J));
       STOP(YR,J)=CEIL(STOP(YR,J));
       TENURE(YR,J)=STOP(YR,J) - START(YR,J) + 1;
       call FILL(START(YR,J),STOP(YR,J),NUMBER(YR,J),HOURSWEEK(YR,J));
     end;
     else TENURE(YR,J)=-3;
     FLAG=1;
     if WEEKSNOTWORKED(YR,J)^=0 & WEEKSNOTWORKED(YR,J)^=-4 then do K=1 to 4;
       if PERIODSTOP(YR,J,K)>=0 & PERIODSTOP(YR,J,K)>INT(YR) then
         PERIODSTOP(YR,J,K)=INT(YR);
       if PERIODSTART(YR,J,K)>=0 & PERIODSTOP(YR,J,K)>=PERIODSTART(YR,J,K) then do;
```

```
          if REASON(YR,J,K)=2 then CODE=4;
          else if REASON(YR,J,K)>0 then do;
            if REASON(YR,J,K)^=3 & REASON(YR,J,K)^=4 then CODE=5;
            else do;
              if ALL(YR,J,K)=1 then CODE=5;
              else if ALL(YR,J,K)=3 then CODE=4;
              else if ALL(YR,J,K)=2 & LOOK(YR,J,K)>=0 then do;
                CODE=9;
                #WEEKS=LOOK(YR,J,K);
              end;
              else CODE=2;
            end;
          end;
          else CODE=2;
          call FILL(PERIODSTART(YR,J,K),PERIODSTOP(YR,J,K),CODE,HOURSWEEK(YR,J));
        end;
        else if K=1 then call FILL(START(YR,J),STOP(YR,J),3,HOURSWEEK(YR,J));
      end;
      if PREVIOUSEMP#(YR,J)>0 then do;
       if TENURE(YR,J)>0 & OLDHIST.OJOB(PR,PREVIOUSEMP#(YR,J),46)>0 then
       TENURE(YR,J)=TENURE(YR,J)+OLDHIST.OJOB(PR,PREVIOUSEMP#(YR,J),46);
        else TENURE(YR,J)=-3;
      end;
      if PRETEN(YR,J)>-4 then do;
        if TENURE(YR,J)>=0 & PRETEN(YR,J)>=0 then
          TENURE(YR,J)=TENURE(YR,J) + 4.3 * PRETEN(YR,J);
        else TENURE(YR,J)=-3;
       end;
      if TENURE(YR,J)<0 then TENURE(YR,J)=-3;
      else TENURE(YR,J)=FLOOR(TENURE(YR,J) + .5);
    end;
end;
FLAG=0;
do K=1 to 6;
  if BSTOP(YR,K)>=0 & BSTOP(YR,K)>INT(YR) then BSTOP(YR,K)=INT(YR);
  if BSTART(YR,K)>=0 & BSTOP(YR,K)>=BSTART(YR,K) then do;
    if BALL(YR,K)=1 then CODE=5;
    else if BALL(YR,K)=3 then CODE=4;
    else if BALL(YR,K)=2 & BLOOK(YR,K)>=0 then do;
      CODE=9;
      #WEEKS=BLOOK(YR,K);
    end;
    else CODE=2;
    call FILL(BSTART(YR,K),BSTOP(YR,K),CODE,0);
  end;
end;
PR=YR;
end CALC;


1FILL:PROC(WEEK_BEGAN,WEEK_ENDED,COD,HOURS);
dcl (WEEK_BEGAN,WEEK_ENDED,COD,HOURS) float dec;
if HOURS<0 then HOURS=-3;
else if HOURS=99 | HOURS=98 | HOURS=97 then HOURS=-3;
FILLER=0;WEEK_BEGAN=CEIL(WEEK_BEGAN);WEEK_ENDED=CEIL(WEEK_ENDED);
if WEEK_BEGAN>=0 & WEEK_ENDED>=WEEK_BEGAN then do F=WEEK_BEGAN to WEEK_ENDED;
  JJ = 1;
```

```
if A(F)>100 & COD>100 &  PR*100+PREVIOUSEMP#((FLOOR(COD/100)),(MOD(COD,100)))
^=A(F) then do;
  DUP=0;
  if DUALJOB(F,1)>0 then do;
    KK = 1;
    do WHILE ((KK <= 4) & (DUALJOB(F,KK) ^= 0));
      if PR*100+PREVIOUSEMP#((FLOOR(COD/100)),(MOD(COD,100)))=
        DUALJOB(F,KK) then DUP=1;
      KK = KK + 1;
    end;
  end;
  if DUP=0 then do;
    if HOURS>0 & HOUR(F)>=0 then do;
      HOUR(F)=HOUR(F) + HOURS;
      if HOUR(F)>96 then HOUR(F)=96;
    end;
    else if HOUR(F)<96 then HOUR(F)=-3;
    if (MOD(COD,100)) = 0 | (MOD(COD,100)) > 10 then do;
      put file(sysprint)
        edit('*** (error) IN CREATING DUALJOB> ID = ',ID, '...COD = ',COD)
          (skip(1),A,F(7,0),A,F(7,0));
    end;
    else do;
      KK = 1;
      do WHILE (KK <= 4);
        if DUALJOB(F,KK) = 0 then do;
          if KK > 1 then do;
            DUALJOB(F,KK) = DUALJOB(F,KK-1);
            DUALJOB(F,KK-1) = COD;
          end;
          else DUALJOB(F,1) = COD;
          KK = 9;
        end;
        KK = KK + 1;
      end;
    end;
  end;
end;
else if DUALJOB(F,1)=0 & (FLAG=1 | A(F)<100) then do;
  if COD=9 then do;
    if HOURS>0 & HOUR(F)>0 & (HOUR(F) - HOURS>=0) then HOUR(F)=HOUR(F) - HOURS;
    else if HOURS>0 then HOUR(F)=0;
    else HOUR(F)=HOURS;
    if FILLER<#WEEKS & F>(WEEK_ENDED-WEEK_BEGAN-#WEEKS)/2 + WEEK_BEGAN
      then do;
      A(F)=4;
      FILLER=FILLER+1;
    end;
    else if A(F)^=4 then A(F)=5;
  end;
  else if (A(F)^=4 | COD>100) then do;
    A(F)=COD;
    if COD>100 then HOUR(F)=HOURS;
    else if HOURS>0 & COD^=3 then HOUR(F)=0;
    else HOUR(F)=HOURS;
  end;
```

```
    end;
    else if DUALJOB(F,1)>0  & FLAG=1 & (COD=2 | COD=4 | COD=5 | COD=9) then do;
      KK = 1;
      do WHILE (KK <= 4);
        if DUALJOB(F,KK) = 0 then do;
          if KK > 1 then DUALJOB(F,KK-1) = 0;
          KK = 9;
        end;
        KK = KK + 1;
        if KK = 5 then DUALJOB(F,4) = 0;
      end;
      if HOURS>0 & HOUR(F)>0 & (HOUR(F) - HOURS >=0)
        then HOUR(F)=HOUR(F) - HOURS;
      else if HOURS>0 then HOUR(F)=0;
      else HOUR(F)=HOURS;
    end;
  end;
  end FILL;

1SUMMER:PROC(YEAR);
 dcl YEAR float dec;
 CALENDAR_YEAR_SUM(YEAR)=0;
 WORKL(YEAR),HOURL(YEAR),WOLFL(YEAR),WUMPL(YEAR),MISSL(YEAR), NWMISSL(YEAR)=0;
 do K=LASTINT(YEAR) to INT(YEAR);
   if A(K)>100 then do;
     WORKL(YEAR)=WORKL(YEAR)+1;
     if HOURL(YEAR)^=-3 & HOUR(K)>0 then HOURL(YEAR)=HOURL(YEAR)+HOUR(K);
     else HOURL(YEAR)=-3;
   end;
   else if A(K)=4 then do;
     if WUMPL(YEAR)^=-3 then WUMPL(YEAR)=WUMPL(YEAR)+1;
   end;
   else if A(K)=2 then do;
     NWMISSL(YEAR)=NWMISSL(YEAR)+1;
     WUMPL(YEAR),WOLFL(YEAR)=-3;
   end;
   else if A(K)=5 | A(K)=7 then do;
     if WOLFL(YEAR)^=-3 then WOLFL(YEAR)=WOLFL(YEAR)+1;
   end;
   else if A(K)=3 then do;
     WORKL(YEAR)=WORKL(YEAR)+1;
     MISSL(YEAR)=MISSL(YEAR)+1;
     if HOURL(YEAR)^=-3 & HOUR(K)>0 then HOURL(YEAR)=HOURL(YEAR)+HOUR(K);
     else HOURL(YEAR)=-3;
     WUMPL(YEAR),WOLFL(YEAR)=-3;
   end;
   else do;
     MISSL(YEAR)=MISSL(YEAR)+1;
     WOLFL(YEAR),WUMPL(YEAR)=-3;
   end;
 end;
 SUMOUT:WBID(YEAR)=INT(YEAR)-LASTINT(YEAR)+1;
 dcl PICKJOB float dec(6);
 do K=1+(YEAR-1)*52 to YEAR*52;
   if A(K)>100 then do;
     WORKC(YEAR)=WORKC(YEAR)+1;
```

```
    if HOURC(YEAR)^=-3 & HOUR(K)>0 then HOURC(YEAR)=HOURC(YEAR)+HOUR(K);
    else HOURC(YEAR)=-3;
    if CAL_YEAR_JOBS(YEAR)=0 then do;
      CAL_YEAR_JOBS(YEAR)=CAL_YEAR_JOBS(YEAR)+1;
      CAL_YEAR_JOB#(YEAR,CAL_YEAR_JOBS(YEAR))=A(K);
    end;
    else do;
      do J=CAL_YEAR_JOBS(YEAR) to 1 by -1;
        if FLOOR(A(K)/100) < YEAR then
          PICKJOB=OLDHIST.OJOB(FLOOR(A(K)/100),MOD(A(K),100),43);
          else PICKJOB=PREVIOUSEMP#(FLOOR(A(K)/100),MOD(A(K),100));
        if A(K)=CAL_YEAR_JOB#(YEAR,J) | PR*100 + PICKJOB
          =CAL_YEAR_JOB#(YEAR,J) then go to NOCOUNT;
      end;
      CAL_YEAR_JOBS(YEAR)=CAL_YEAR_JOBS(YEAR)+1;
      CAL_YEAR_JOB#(YEAR,CAL_YEAR_JOBS(YEAR))=A(K);
    end;
    NOCOUNT:
  end;
  else if A(K)=4 then do;
    if WUMPC(YEAR)^=-3 then WUMPC(YEAR)=WUMPC(YEAR)+1;
  end;
  else if A(K)=2 then do;
    NWMISSC(YEAR)=NWMISSC(YEAR)+1;
    WUMPC(YEAR),WOLFC(YEAR)=-3;
  end;
  else if A(K)=5 | A(K)=7 then do;
    if WOLFC(YEAR)^=-3 then WOLFC(YEAR)=WOLFC(YEAR)+1;
    if A(K)=7 & MILWKSC(YEAR)>=0 then MILWKSC(YEAR)=MILWKSC(YEAR)+1;
  end;
  else if A(K)=3 then do;
    WORKC(YEAR)=WORKC(YEAR)+1;
    MISSC(YEAR)=MISSC(YEAR)+1;
    if HOURC(YEAR)^=-3 & HOUR(K)>0 then HOURC(YEAR)=HOURC(YEAR)+HOUR(K);
    else HOURC(YEAR)=-3;
    WUMPC(YEAR),WOLFC(YEAR)=-3;
  end;
  else do;
    MISSC(YEAR)=MISSC(YEAR)+1;
    WOLFC(YEAR),WUMPC(YEAR)=-3;
  end;
end;
if MILWKSC(YEAR)=0 then MILWKSC(YEAR)=-4;
CALOUT:
MISSL(YEAR)=FLOOR((MISSL(YEAR)/(INT(YEAR)-LASTINT(YEAR)+1)*100));
NWMISSL(YEAR)=FLOOR((NWMISSL(YEAR)/(INT(YEAR)-LASTINT(YEAR)+1)*100));
MISSC(YEAR)=FLOOR((MISSC(YEAR)/52)*100);
NWMISSC(YEAR)=FLOOR((NWMISSC(YEAR)/52)*100);
end SUMMER;

HRP:PROC(JOBNO) RETURNS(float dec(6));  /* modified 1/30/92 */
dcl (JOBNO) fixed bin(15);
if PAYRATE(NEWYEAR,JOBNO)>0 & TIMERATE(NEWYEAR,JOBNO)>0 then do;
 if PAYRATE(NEWYEAR,JOBNO)=9999995 then RETURN(-4);
  else if TIMERATE(NEWYEAR,JOBNO)=1 then RETURN(PAYRATE(NEWYEAR,JOBNO));
   else if TIMERATE(NEWYEAR,JOBNO)=2 & HOURDAY(NEWYEAR,JOBNO)>0 then
```

```
       RETURN((FLOOR(PAYRATE(NEWYEAR,JOBNO)/HOURDAY(NEWYEAR,JOBNO)))));
     else if TIMERATE(NEWYEAR,JOBNO)>=3 & TIMERATE(NEWYEAR,JOBNO)<7 &
     HOURSWEEK(NEWYEAR,JOBNO)>0
       then do;
       if TIMERATE(NEWYEAR,JOBNO)=3 then
         RETURN((FLOOR(PAYRATE(NEWYEAR,JOBNO)/HOURSWEEK(NEWYEAR,JOBNO)))));
       else if TIMERATE(NEWYEAR,JOBNO)=4 then
         RETURN((FLOOR(PAYRATE(NEWYEAR,JOBNO)/ (HOURSWEEK(NEWYEAR,JOBNO)*2))));
       else if TIMERATE(NEWYEAR,JOBNO)=5 then
         RETURN((FLOOR(PAYRATE(NEWYEAR,JOBNO)/ (HOURSWEEK(NEWYEAR,JOBNO)*4.3))));
       else if TIMERATE(NEWYEAR,JOBNO)=6 then
         RETURN((FLOOR(PAYRATE(NEWYEAR,JOBNO)/ (HOURSWEEK(NEWYEAR,JOBNO)*52))));
     end;
     else RETURN(-4);
   end;
   else RETURN(-4);
   end HRP;

done:
   /***** TEMPORARY DUMP OF NEW VAR 7/22/91 ******/
   /* do i = 1 to newyear-1;
     put file(sysprint) edit('ojobever(',i,')= ',oldhist(i).ojobever)        (skip(1),a,f(2),a,f(10));
   end;
   put file(sysprint) edit('jobever(newyear)= ',jobever(newyear))         (skip(1),a,f(10));     */
   put file(sysprint) edit(' NUMBER OF RECORDS read from WORKTAP =',kount)        (skip(2),A,F(7,0));
   put file(sysprint) edit(' NUMBER OF RECORDS read from VARSNYR =',kountnew)      (skip(2),A,F(7,0));
   put file(sysprint) edit(' NUMBER OF RECORDS read from ADDJOBS =',kountadd)      (skip(2),A,F(7,0));
   put file(sysprint) edit(' NUMBER OF RECORDS read from TABLE  =',TBL_CNT)       (skip(2),A,F(7,0));
   put file(sysprint) edit(' WORK HISTORY RECORDS WRITTEN out   =',kount_out)      (skip(2),A,F(7,0));
   put file(sysprint) edit(' EXTRA WORK RECORDS WRITTEN out     =',kount_XVR)      (skip(2),A,F(7,0));
   put file(sysprint) edit(' # OF CURRENT YEAR ZERO WEIGHT CASES =',WTZERO)  (skip(2),A,F(7,0));
end DMPDATA;


/**************************************************1991*****************************************/

(SUBRG):
DMPDATA: PROC options(MAIN);
default RANGE(I:N) float;
dcl WORKTAP file record input;              /* current work history tape  */
dcl OLDXVAR file record input;              /* current extra work history variables */
dcl VARSNYR file record input;              /* new year data-12686 cases, inc. wt */
dcl IDTABLE file stream input;              /* cross-walk of ID's */
dcl ADDJOBS file record input;              /* new year add jobs file */
dcl NEWWORK file record output;             /* writes new updated work history tape */
dcl NEWXVAR file record output;             /* writes additional work history vars */
dcl OUTDISK file stream output;             /* writes 91 key vars file on disk */
dcl (MOD,FLOOR,CEIL,SUBSTR) BUILTIN, sysprint file;
dcl ENDVARS fixed bin(15);
dcl (OLDA,ALIM,J,K,KK,JJ,N,I,NUMVAR) fixed bin(15);
dcl (NA,DK,MAX,MAXYEAR,MAXDUAL,MAXINT,PR,SURVEY_YR,
   P,LEAP,FILLER,F,DUP,DUA,DIV,NEWYEAR,FLAG,#WEEKS)  float dec(6);
dcl(kount,kountadd,kountnew,kountold,kount_out,kount_XVR) fixed bin(15);
dcl (kountfix,WTZERO,TBL_CNT) fixed bin(15);
on endfile(WORKTAP) go to done;
on endfile(VARSNYR) ENDVARS=1;
on error go to done;
```

```
OLDA=685; ALIM=740; NEWYEAR=13; SURVEY_YR=91; /* note: update this line for arrays limit & year */
dcl 1 VARYR,                          /* vars for new workhistory */
    2 X(1:1554) float dec(6);
 dcl 1 IDTBLE,
    2 TABLE_ID  float dec(6),
    2 NORCIDS   float dec(6);
dcl 1 STRUCTIN controlled,
    2 INFO(10)        float dec(6),        /*current workhistory record */
    2 HISTYRS(NEWYEAR-1),
      5 OWT            float dec(6),
      5 OLASTINT        float dec(6),
      5 OINT            float dec(6),
      5 OINTM          float dec(6),
      5 OINTD          float dec(6),
      5 OINTY          float dec(6),
      5 OJOB(10,47)      float dec(6),
      5 OBTWNJOBS(6,5)    float dec(6),
      5 OMILIT(6)       float dec(6),
      5 OCALENDAR(17)      float dec(6),
      5 OLASTSUM(8)       float dec(6),
      5 OJOBEVER         float dec(6);
 dcl 1 XSTRUCT controlled,
    2 PUBLICID        fixed bin(31,0),
    2 ARRAY1(0:OLDA)     fixed bin(15,0),
    2 ARRAY2(0:OLDA)     fixed bin(15,0),
    2 ARRAY3(0:OLDA,4)    fixed bin(15,0);
 dcl 1 XVARS controlled,
    2 PUBLICID        fixed bin(31,0),
    2 A(0:ALIM)        fixed bin(15,0),
    2 HOUR(0:ALIM)      fixed bin(15,0),
    2 DUALJOB(0:ALIM,4)  fixed bin(15,0);
 dcl CPS_HOURLYWAGE(NEWYEAR) float dec(6) controlled;
 dcl 1 VARIABLES controlled,
    2 ID            float dec(6),        /* ID number of respondent, X(1) */
    2 SAMPLE_ID      float dec(6),        /* sample type, X(1561) */
    2 SEX          float dec(6),
    2 RACE         float dec(6),
    2 BIRTHM_79      float dec(6),
    2 BIRTHD_79      float dec(6),
    2 BIRTHY_79      float dec(6),
    2 BIRTHM_81       float dec(6),
    2 BIRTHD_81       float dec(6),
    2 BIRTHY_81       float dec(6),
    2 OLDHIST(NEWYEAR-1),
      5 OWT         float dec(6),
      5 OLASTINT     float dec(6),
      5 OINT        float dec(6),
      5 OINTM        float dec(6),
      5 OINTD        float dec(6),
      5 OINTY        float dec(6),
      5 OJOB(10,47)    float dec(6),
      5 OBTWNJOBS(6,5) float dec(6),
      5 OMILIT(6)     float dec(6),
      5 OCALENDAR(17)  float dec(6),
      5 OLASTSUM(8)    float dec(6),
      5 OJOBEVER      float dec(6),
```

```
2 WORK_HISTORY(NEWYEAR:NEWYEAR),
 5 WEIGHT,                      /* sampling weight   */
 5 LASTINT,                     /* week number of last interview */
 5 INT,                         /* week number of current interview */
 5 INTM,                        /* month of the interview */
 5 INTD,                        /* day of the interview */
 5 INTY,                        /* year of the interview */
 5 JOB(10),                     /* 10 possible jobs for each interview */
  10 START,                     /* starting week of the job */
  10 STARTM,                    /* starting month of the job */
  10 STARTD,                    /* starting day of the job */
  10 STARTY,                    /* starting year of the job */
  10 STOP,                      /* stopping week of the job */
  10 STOPM,                     /* stopping month of the job */
  10 STOPD,                     /* stopping day of the job */
  10 STOPY,                     /* stopping year of the job */
  10 PAST,                      /* has R worked at job before last interview */
  10 CURRENT,                   /* working at job at interview date */
  10 WHYLEFT,                   /* reason left job if not currently working */
  10 CPSJOB,                    /* is this job same as the cps job */
  10 HOURSWEEK,                 /* usual hours per week at this job */
  10 OCCUPATION,                /* usual occupation at this job */
  10 INDUSTRY,                  /* usual industry at this job */
  10 CLASSWORKER,               /* class of worker at this job */
  10 HOURDAY,                   /* usual hours per day worked at this job */
  10 PAYRATE,                   /* usual wage or salary at this job */
  10 TIMERATE,                  /* time unit to interpret payrate */
  10 HOURLYWAGE,                /* usual wage converted to hourly wage */
  10 UNION,                     /* wages set by collective bargaining */
  10 GOVTJOB,                   /* is this job government-sponsored */
  10 WEEKSNOTWORKED,            /* any weeks not working at this job */
  10 PERIOD_IN_JOB(4),          /* information on each period not working */
    15 PERIODSTART,             /* starting wk number of period not working */
    15 PERIODSTOP,              /* stopping wk number of period not working */
    15 REASON,                  /* reason not working for this period */
    15 ALL,                     /* how much time unemployed in this period */
    15 LOOK,                    /* number of weeks unemployed in this period */
  10 PREVIOUSEMP#,              /* job number of employer from last int */
  10 PRETEN,                    /* months worked for employer before lastint */
  10 TENURE,                    /* total weeks tenure as of interview date */
  10 NUMBER,                    /* job number which is loaded into 'A' array */
 5 BETWEEN_JOBS(6),             /* information about periods not working between jobs and military
       service */
  10 BSTART,                    /* week started this period not working */
  10 BSTOP,                     /* week stopped this period not working */
  10 BALL,                      /* how much of period not worked unemployed */
  10 BLOOK,                     /* number of weeks unemployed in this period */
  10 BREASON,                   /* reason not looking for work this period */
 5 MILITARY,                    /* information about active military service */
  10 MSTART1,                   /* starting week of first period of service */
  10 MSTART2,                   /* starting week of second period of service */
  10 MSTOP1,                    /* stopping week of first period of service */
  10 MSTOP2,                    /* stopping week of second period of service */
  10 MILWKSL,                   /* weeks active military service as of int */
  10 MILWKSC,                   /* weeks active military service in the calendar year */
 5 CALENDAR_YEAR_SUM,           /* key variables for the calendar year */
```

```
     10 WORKC,                        /* weeks worked in the calendar year */
     10 HOURC,                        /* hours worked in the calendar year */
     10 WUMPC,                        /* weeks unemployed in the calendar year */
     10 WOLFC,                        /* weeks out of labor force in calendar year */
     10 CAL_YEAR_JOBS,                /* number of jobs in the calendar year */
     10 CAL_YEAR_JOB#(10),            /* job numbers in the calendar year */
     10 MISSC,                        /* % of weeks unaccounted for in year */
     10 NWMISSC,                      /* % weeks not employed that can't be split */
    5 LASTINT_SUM,                    /* key variables calculated since last int */
     10 LASTINT_JOBS,                 /* number of jobs since last interview */
     10 WORKL,                        /* number of weeks worked since last int */
     10 HOURL,                        /* number of hours worked since last int */
     10 WUMPL,                        /* number of weeks unemployed since last int */
     10 WOLFL,                        /* weeks out of labor force since last int */
     10 WBID,                         /* number of weeks since last int */
     10 MISSL,                        /* % of weeks unaccounted for since last int */
     10 NWMISSL,                      /* % weeks not employed that can't be split */
     10 JOBEVER;                      /* number of different jobs ever held */

NA=-4; DK=-3; X(1)=0;  TABLE_ID=0; ENDVARS=0; /* eof flag for varsnyr */
kount=0; kountadd=0; kountnew=0; kountold=0; kount_out=0; kount_XVR=0; kountfix=0; WTZERO=0;
        MAX=0; MAXYEAR=100; MAXDUAL=0; MAXINT=0;
allocate VARIABLES, STRUCTIN, XSTRUCT, XVARS, CPS_HOURLYWAGE;

1READ1:  read file (WORKTAP) into (STRUCTIN);
      read file (OLDXVAR) into (XSTRUCT);
  kount=kount+1;
  ID=INFO(1);
  XVARS.PUBLICID = ID;      /*** PUBLIC ID FOR XVAR ***/
  SAMPLE_ID=INFO(2);
  SEX=INFO(3);
  RACE=INFO(4);
  BIRTHM_79=INFO(5);        BIRTHD_79=INFO(6);        BIRTHY_79=INFO(7);
  BIRTHM_81=INFO(8);        BIRTHD_81=INFO(9);        BIRTHY_81=INFO(10);
  A=0; HOUR=0; DUALJOB=0;

  do J=0 to OLDA;  /* copy old array info into the current array struct */
   A(J)=ARRAY1(J); HOUR(J)=ARRAY2(J);
   do K = 1 to 4;
     DUALJOB(J,K) = ARRAY3(J,K);
   end;
  end;

  OLDHIST=HISTYRS, by NAME;
 /* no hand edits for 1991 only  */
if ( (TABLE_ID < ID) & (ENDVARS=0)) then do;
  do WHILE ( (TABLE_ID<ID) & (ENDVARS=0) );
    get file (IDTABLE) edit(TABLE_ID,NORCIDS) (COL(5),F(5),COL(12),F(7));
    TBL_CNT=TBL_CNT+1;
  end;
  if ( (X(1) < NORCIDS) & (ENDVARS=0) ) then do;
    read file (VARSNYR) into (VARYR);
  end;
end;
kountnew=kountnew+1;
```

```
if (NORCIDS^=X(1)) then go to SKIPME;
NORCID  = X(  1);  /* case identification number          */
IS03    = X(  7);      /* military status at last interview        */
Q0447   = X( 245);  /* R serving in military at last interview    */
Q0460   = X( 252);  /* is R currently in the active forces  (curamil) */
Q0521   = X( 266);  /* when sworn in,did R enter active forces?(curamil) */
Q0462   = X( 253);  /* month R separated from armed srvc branch   */
Q0464   = X( 254);  /* year R separated from armed srvcs branch   */
Q0468   = X( 256);  /* day of separation                 */
Q0509   = X( 260);  /* branch R sworn into                 */
Q0515   = X( 263);  /* R currently serving most recent branch    */
Q0517   = X( 264);  /* month R entered most recent branch        */
Q0519   = X( 265);  /* year R entered most recent branch         */
Q0523   = X( 267);  /* day R entered active forces          */
Q0525   = X( 268);  /* did R serve any time on active duty?      */
Q0527   = X( 269);  /* mo_ entered active-not currently serving   */
Q0529   = X( 270);  /* day entered active-not currently serving   */
Q0531   = X( 271);  /* yr R entered active-not currntly serving   */
Q0535   = X( 273);  /* month separated from military        */
Q0537   = X( 274);  /* day R separated from military        */
Q0539   = X( 275);  /* year R separated from the military       */
Q0839   = X( 357);  /* type of industry worked for         */
Q0842   = X( 358);  /* type of work doing last week         */
Q0853   = X( 362);  /* category of industry R worked for       */
Q0859   = X( 365);  /* number of hours per week usually work    */
Q0865   = X( 368);  /* num hrs/wk worked at job-home hrs incl    */
Q1017   = X(1010);  /* month began most recnt non-emplymnt per_  */
Q1019   = X(1011);  /* day began most recent non-employmnt per_  */
Q1021   = X(1012);  /* year began most recent non-emplymnt per_  */
Q1023   = X(1013);  /* month ended most recent non-emplymnt per_  */
Q1025   = X(1014);  /* day ended most recent non-emplymnt per_   */
Q1027   = X(1015);  /* year ended most recent non-emplymnt per_   */
Q1029   = X(1016);  /* period 1:# weeks looking for work,layoff  */
Q1040   = X(1020);  /* period1 number of weeks looking,layoff    */
Q1046   = X(1022);  /* period1 reason not looking          */
Q1050   = X(1024);  /* month began 2nd recnt non-employmnt per_  */
Q1052   = X(1025);  /* day began 2nd recent non-employmnt per_   */
Q1054   = X(1026);  /* year R began 2nd recnt non-employmnt per_  */
Q1056   = X(1027);  /* month ended 2nd recent non-employmnt per_  */
Q1058   = X(1028);  /* day ended 2nd recent non-employmnt per_   */
Q1060   = X(1029);  /* year ended 2nd recent non-employmnt per_   */
Q1062   = X(1030);  /* period 2:# weeks looking for work,layoff  */
Q1073   = X(1034);  /* period2 number of weeks looking,layoff    */
Q1109   = X(1036);  /* period2 reason not looking          */
Q1113   = X(1038);  /* month began 3rd recent non-emplymnt per_  */
Q1115   = X(1039);  /* day began 3rd recent non-employment per_  */
Q1117   = X(1040);  /* year began 3rd recent non-employmnt per_  */
Q1119   = X(1041);  /* month ended 3rd recent non-emplymnt per_  */
Q1121   = X(1042);  /* day ended 3rd recent non-employment per_  */
Q1123   = X(1043);  /* year ended 3rd recent non-employmnt per_  */
Q1125   = X(1044);  /* period 3:# weeks looking for work,layoff  */
Q1136   = X(1048);  /* period3 number of weeks looking,layoff    */
Q1142   = X(1050);  /* period3 reason not looking          */
Q1146   = X(1052);  /* month began 4th recent non-emplymnt per_  */
Q1148   = X(1053);  /* day began 4th recent non-employment per_  */
Q1150   = X(1054);  /* year began 4th recent non-employmnt per_  */
```

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Q1152  = X(1055);  /* month ended 4th recent non-emplymnt per_   */
Q1154  = X(1056);  /* day ended 4th recent non-employment per_   */
Q1156  = X(1057);  /* year ended 4th recent non-employmnt per_   */
Q1158  = X(1058);  /* period 4:# weeks looking for work,layoff   */
Q1169  = X(1062);  /* period4 number of weeks looking,layoff     */
Q1175  = X(1064);  /* period4 reason not looking               */
Q2512  = X(1517);  /* month of interview                  */
Q2514  = X(1518);  /* day of interview                   */
QB149  = X( 411);  /* employer # from item  5               */
QB161  = X( 417);  /* employer # from item  6               */
QB169  = X( 421);  /* code for date in question 3 (esb_4)       */
QB173  = X( 423);  /* tot mnths wrking before date last intrvw   */
QB175  = X( 424);  /* month last interview                */
QB177  = X( 425);  /* day   last interview                */
QB179  = X( 426);  /* year  last interview                */
QB209  = X( 427);  /* currently working for this employer      */
QB211  = X( 428);  /* month R stopped working for employer     */
QB213  = X( 429);  /* day R stopped working for employer      */
QB215  = X( 430);  /* year R stopped working for employer      */
QB217  = X( 431);  /* reason R happened to leave this job      */
QB223  = X( 434);  /* periods of week/more not working        */
QB227  = X( 436);  /* begin month gap within job period 1      */
QB229  = X( 437);  /* begin day gap within job period 1       */
QB231  = X( 438);  /* begin year gap within job period 1       */
QB233  = X( 439);  /* ending month gap within job period 1      */
QB235  = X( 440);  /* ending day gap within job period 1       */
QB237  = X( 441);  /* ending year gap within job period 1      */
QB239  = X( 442);  /* reason not working               */
QB241  = X( 443);  /* R looking for wrk some,none,or all weeks   */
QB252  = X( 447);  /* # of wks looking for work or on layoff    */
QB262  = X( 451);  /* begin month gap within job period 2      */
QB264  = X( 452);  /* begin day gap within job period 2       */
QB266  = X( 453);  /* begin year gap within job period 2       */
QB268  = X( 454);  /* ending month gap within job period 2      */
QB270  = X( 455);  /* ending day gap within job period 2       */
QB272  = X( 456);  /* ending year gap within job period 2      */
QB274  = X( 457);  /* reason not working               */
QB309  = X( 458);  /* R looking for wrk some,none,or all weeks   */
QB320  = X( 462);  /* # of wks looking or on layoff period 2    */
QB330  = X( 466);  /* begin month gap within job period 3      */
QB332  = X( 467);  /* begin day gap within job period 3       */
QB334  = X( 468);  /* begin year gap within job period 3       */
QB336  = X( 469);  /* ending month gap within job period 3      */
QB338  = X( 470);  /* ending day gap within job period 3       */
QB340  = X( 471);  /* ending year gap within job period 3      */
QB342  = X( 472);  /* reason not working               */
QB344  = X( 473);  /* R looking for wrk some,none,or all weeks   */
QB355  = X( 477);  /* # of wks looking or on layoff period 3    */
QB433  = X( 496);  /* nmbr of hours/day R worked at this job    */
QB435  = X( 497);  /* is this employer recorded in Q_24 sec 5   */
QB437  = X( 498);  /* number of hrs/week R worked at this job   */
QB443  = X( 501);  /* num hrs/wk worked at job-home hrs incl    */
QB445  = X( 502);  /* R wk 10 hr or more a wk?              */
QB449  = X( 504);  /* R's occupation code               */
QB452  = X( 505);  /* R's industry code                 */
QB455  = X( 506);  /* R's employment category             */
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QB461   = X( 509);   /* amt R was paid including tips,bonus,etc_   */
QB467   = X( 510);   /* amount paid - cents, job #1          */
QB469   = X( 511);   /* pay period for R on job              */
QB527   = X( 523);   /* R's wages set by collective bargaining    */
QB529   = X( 524);   /* is/was R a member of a union/emp assctn   */
QC149   = X( 531);   /* employer # from item  5              */
QC161   = X( 537);   /* employer # from item  6              */
QC169   = X( 541);   /* code for date in question 3 (esc_4)      */
QC173   = X( 543);   /* tot mnths wrking before date last intrvw   */
QC175   = X( 544);   /* month last interview                 */
QC177   = X( 545);   /* day   last interview                 */
QC179   = X( 546);   /* year  last interview                 */
QC209   = X( 547);   /* currently working for this employer      */
QC211   = X( 548);   /* month R stopped working for employer     */
QC213   = X( 549);   /* day R stopped working for employer       */
QC215   = X( 550);   /* year R stopped working for employer      */
QC217   = X( 551);   /* reason R happened to leave this job      */
QC223   = X( 554);   /* periods of week/more not working        */
QC227   = X( 556);   /* begin month gap within job period 1      */
QC229   = X( 557);   /* begin day gap within job period 1       */
QC231   = X( 558);   /* begin year gap within job period 1      */
QC233   = X( 559);   /* ending month gap within job period 1      */
QC235   = X( 560);   /* ending day gap within job period 1       */
QC237   = X( 561);   /* ending year gap within job period 1      */
QC239   = X( 562);   /* reason not working                  */
QC241   = X( 563);   /* R looking for wrk some,none,or all weeks   */
QC252   = X( 567);   /* # of wks looking for work or on layoff    */
QC262   = X( 571);   /* begin month gap within job period 2      */
QC264   = X( 572);   /* begin day gap within job period 2       */
QC266   = X( 573);   /* begin year gap within job period 2      */
QC268   = X( 574);   /* ending month gap within job period 2      */
QC270   = X( 575);   /* ending day gap within job period 2       */
QC272   = X( 576);   /* ending year gap within job period 2      */
QC274   = X( 577);   /* reason not working                  */
QC309   = X( 578);   /* R looking for wrk some,none,or all weeks   */
QC320   = X( 582);   /* # of wks looking or on layoff period 2    */
QC330   = X( 586);   /* begin month gap within job period 3      */
QC332   = X( 587);   /* begin day gap within job period 3       */
QC334   = X( 588);   /* begin year gap within job period 3      */
QC336   = X( 589);   /* ending month gap within job period 3      */
QC338   = X( 590);   /* ending day gap within job period 3       */
QC340   = X( 591);   /* ending year gap within job period 3      */
QC342   = X( 592);   /* reason not working                  */
QC344   = X( 593);   /* R looking for wrk some,none,or all weeks   */
QC355   = X( 597);   /* # of wks looking or on layoff period 3    */
QC433   = X( 616);   /* nmbr of hours/day R worked at this job    */
QC435   = X( 617);   /* is this employer recorded in Q_24 sec 5   */
QC437   = X( 618);   /* number of hrs/week R worked at this job   */
QC443   = X( 621);   /* num hrs/wk worked at job-home hrs incl    */
QC445   = X( 622);   /* R wk 10 hr or more a wk?             */
QC449   = X( 624);   /* R's occupation code                 */
QC452   = X( 625);   /* R's industry code                  */
QC455   = X( 626);   /* R's employment category             */
QC461   = X( 629);   /* amt R was paid including tips,bonus,etc_   */
QC467   = X( 630);   /* amount paid - cents, job #1          */
QC469   = X( 631);   /* pay period for R on job              */
```

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QC527  = X( 643);  /* R's wages set by collective bargaining    */
QC529  = X( 644);  /* is/was R a member of a union/emp assctn    */
QD149  = X( 651);  /* employer # from item  5              */
QD161  = X( 657);  /* employer # from item  6              */
QD169  = X( 661);  /* code for date in question 3 (esd_4)     */
QD173  = X( 663);  /* tot mnths wrking before date last intrvw   */
QD175  = X( 664);  /* month last interview              */
QD177  = X( 665);  /* day   last interview              */
QD179  = X( 666);  /* year  last interview              */
QD209  = X( 667);  /* currently working for this employer     */
QD211  = X( 668);  /* month R stopped working for employer      */
QD213  = X( 669);  /* day R stopped working for employer      */
QD215  = X( 670);  /* year R stopped working for employer     */
QD217  = X( 671);  /* reason R happened to leave this job     */
QD223  = X( 674);  /* periods of week/more not working       */
QD227  = X( 676);  /* begin month gap within job period 1     */
QD229  = X( 677);  /* begin day gap within job period 1      */
QD231  = X( 678);  /* begin year gap within job period 1      */
QD233  = X( 679);  /* ending month gap within job period 1     */
QD235  = X( 680);  /* ending day gap within job period 1      */
QD237  = X( 681);  /* ending year gap within job period 1      */
QD239  = X( 682);  /* reason not working              */
QD241  = X( 683);  /* R looking for wrk some,none,or all weeks   */
QD252  = X( 687);  /* # of wks looking for work or on layoff    */
QD262  = X( 691);  /* begin month gap within job period 2     */
QD264  = X( 692);  /* begin day gap within job period 2      */
QD266  = X( 693);  /* begin year gap within job period 2      */
QD268  = X( 694);  /* ending month gap within job period 2     */
QD270  = X( 695);  /* ending day gap within job period 2      */
QD272  = X( 696);  /* ending year gap within job period 2      */
QD274  = X( 697);  /* reason not working              */
QD309  = X( 698);  /* R looking for wrk some,none,or all weeks   */
QD320  = X( 702);  /* # of wks looking or on layoff period 2    */
QD330  = X( 706);  /* begin month gap within job period 3     */
QD332  = X( 707);  /* begin day gap within job period 3      */
QD334  = X( 708);  /* begin year gap within job period 3      */
QD336  = X( 709);  /* ending month gap within job period 3     */
QD338  = X( 710);  /* ending day gap within job period 3      */
QD340  = X( 711);  /* ending year gap within job period 3      */
QD342  = X( 712);  /* reason not working              */
QD344  = X( 713);  /* R looking for wrk some,none,or all weeks   */
QD355  = X( 717);  /* # of wks looking or on layoff period 3    */
QD433  = X( 736);  /* nmbr of hours/day R worked at this job    */
QD435  = X( 737);  /* is this employer recorded in Q_24 sec 5   */
QD437  = X( 738);  /* number of hrs/week R worked at this job   */
QD443  = X( 741);  /* num hrs/wk worked at job-home hrs incl    */
QD445  = X( 742);  /* R wk 10 hr or more a wk?            */
QD449  = X( 744);  /* R's occupation code              */
QD452  = X( 745);  /* R's industry code               */
QD455  = X( 746);  /* R's employment category            */
QD461  = X( 749);  /* amt R was paid including tips,bonus,etc_   */
QD467  = X( 750);  /* amount paid - cents, job #1          */
QD469  = X( 751);  /* pay period for R on job            */
QD527  = X( 763);  /* R's wages set by collective bargaining    */
QD529  = X( 764);  /* is/was R a member of a union/emp assctn    */
QE149  = X( 771);  /* employer # from item  5            */
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QE161   = X( 777);   /* employer # from item  6              */
QE169   = X( 781);   /* code for date in question 3 (ese_4)     */
QE173   = X( 783);   /* tot mnths wrking before date last intrvw  */
QE175   = X( 784);   /* month last interview                */
QE177   = X( 785);   /* day   last interview              */
QE179   = X( 786);   /* year  last interview              */
QE209   = X( 787);   /* currently working for this employer      */
QE211   = X( 788);   /* month R stopped working for employer     */
QE213   = X( 789);   /* day R stopped working for employer      */
QE215   = X( 790);   /* year R stopped working for employer      */
QE217   = X( 791);   /* reason R happened to leave this job      */
QE223   = X( 794);   /* periods of week/more not working       */
QE227   = X( 796);   /* begin month gap within job period 1      */
QE229   = X( 797);   /* begin day gap within job period 1      */
QE231   = X( 798);   /* begin year gap within job period 1      */
QE233   = X( 799);   /* ending month gap within job period 1     */
QE235   = X( 800);   /* ending day gap within job period 1      */
QE237   = X( 801);   /* ending year gap within job period 1     */
QE239   = X( 802);   /* reason not working              */
QE241   = X( 803);   /* R looking for wrk some,none,or all weeks  */
QE252   = X( 807);   /* # of wks looking for work or on layoff    */
QE262   = X( 811);   /* begin month gap within job period 2      */
QE264   = X( 812);   /* begin day gap within job period 2      */
QE266   = X( 813);   /* begin year gap within job period 2      */
QE268   = X( 814);   /* ending month gap within job period 2     */
QE270   = X( 815);   /* ending day gap within job period 2      */
QE272   = X( 816);   /* ending year gap within job period 2     */
QE274   = X( 817);   /* reason not working              */
QE309   = X( 818);   /* R looking for wrk some,none,or all weeks  */
QE320   = X( 822);   /* # of wks looking or on layoff period 2    */
QE330   = X( 826);   /* begin month gap within job period 3      */
QE332   = X( 827);   /* begin day gap within job period 3      */
QE334   = X( 828);   /* begin year gap within job period 3      */
QE336   = X( 829);   /* ending month gap within job period 3     */
QE338   = X( 830);   /* ending day gap within job period 3      */
QE340   = X( 831);   /* ending year gap within job period 3     */
QE342   = X( 832);   /* reason not working              */
QE344   = X( 833);   /* R looking for wrk some,none,or all weeks  */
QE355   = X( 837);   /* # of wks looking or on layoff period 3    */
QE433   = X( 856);   /* nmbr of hours/day R worked at this job    */
QE435   = X( 857);   /* is this employer recorded in Q_24 sec 5   */
QE437   = X( 858);   /* number of hrs/week R worked at this job   */
QE443   = X( 861);   /* num hrs/wk worked at job-home hrs incl    */
QE445   = X( 862);   /* R wk 10 hr or more a wk?            */
QE449   = X( 864);   /* R's occupation code             */
QE452   = X( 865);   /* R's industry code              */
QE455   = X( 866);   /* R's employment category           */
QE461   = X( 869);   /* amt R was paid including tips,bonus,etc_  */
QE467   = X( 870);   /* amount paid - cents, job #1          */
QE469   = X( 871);   /* pay period for R on job           */
QE527   = X( 883);   /* R's wages set by collective bargaining    */
QE529   = X( 884);   /* is/was R a member of a union/emp assctn   */
QF149   = X( 891);   /* employer # from item  5            */
QF161   = X( 897);   /* employer # from item  6            */
QF169   = X( 901);   /* code for date in question 3 (esf_4)     */
QF173   = X( 903);   /* tot mnths wrking before date last intrvw  */
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QF175   = X( 904);  /* month last interview                    */
QF177   = X( 905);  /* day   last interview                    */
QF179   = X( 906);  /* year  last interview                    */
QF209   = X( 907);  /* currently working for this employer      */
QF211   = X( 908);  /* month R stopped working for employer       */
QF213   = X( 909);  /* day R stopped working for employer       */
QF215   = X( 910);  /* year R stopped working for employer       */
QF217   = X( 911);  /* reason R happened to leave this job      */
QF223   = X( 914);  /* periods of week/more not working         */
QF227   = X( 916);  /* begin month gap within job period 1      */
QF229   = X( 917);  /* begin day gap within job period 1      */
QF231   = X( 918);  /* begin year gap within job period 1      */
QF233   = X( 919);  /* ending month gap within job period 1      */
QF235   = X( 920);  /* ending day gap within job period 1      */
QF237   = X( 921);  /* ending year gap within job period 1      */
QF239   = X( 922);  /* reason not working                    */
QF241   = X( 923);  /* R looking for wrk some,none,or all weeks   */
QF252   = X( 927);  /* # of wks looking for work or on layoff    */
QF262   = X( 931);  /* begin month gap within job period 2      */
QF264   = X( 932);  /* begin day gap within job period 2      */
QF266   = X( 933);  /* begin year gap within job period 2      */
QF268   = X( 934);  /* ending month gap within job period 2      */
QF270   = X( 935);  /* ending day gap within job period 2      */
QF272   = X( 936);  /* ending year gap within job period 2      */
QF274   = X( 937);  /* reason not working                    */
QF309   = X( 938);  /* R looking for wrk some,none,or all weeks   */
QF320   = X( 942);  /* # of wks looking or on layoff period 2    */
QF330   = X( 946);  /* begin month gap within job period 3      */
QF332   = X( 947);  /* begin day gap within job period 3      */
QF334   = X( 948);  /* begin year gap within job period 3      */
QF336   = X( 949);  /* ending month gap within job period 3      */
QF338   = X( 950);  /* ending day gap within job period 3      */
QF340   = X( 951);  /* ending year gap within job period 3      */
QF342   = X( 952);  /* reason not working                    */
QF344   = X( 953);  /* R looking for wrk some,none,or all weeks   */
QF355   = X( 957);  /* # of wks looking or on layoff period 3    */
QF433   = X( 976);  /* nmbr of hours/day R worked at this job    */
QF435   = X( 977);  /* is this employer recorded in Q_24 sec 5   */
QF437   = X( 978);  /* number of hrs/week R worked at this job   */
QF443   = X( 981);  /* num hrs/wk worked at job-home hrs incl    */
QF445   = X( 982);  /* R wk 10 hr or more a wk?               */
QF449   = X( 984);  /* R's occupation code                  */
QF452   = X( 985);  /* R's industry code                    */
QF455   = X( 986);  /* R's employment category              */
QF461   = X( 989);  /* amt R was paid including tips,bonus,etc_  */
QF467   = X( 990);  /* amount paid - cents, job #1            */
QF469   = X( 991);  /* pay period for R on job               */
QF527   = X(1003);  /* R's wages set by collective bargaining    */
QF529   = X(1004);  /* is/was R a member of a union/emp assctn   */
WT91    = X(1554);  /* weight for 91                       */

/*  rewrites to 1991 data tape */
if ID=1321 | ID=1667 | ID=2547 | ID=2617 | ID=2837 | ID=5488 | ID=8230 | ID=8301 | ID=9394 | ID=9433 then
        do;
  Q0447=0;  Q0449=0;
  end;
```

```
if ID=3253 then do;
  QB227=-3;  QB229=-3;  QB231=-3;  QB233=-3;  QB235=-3;  QB237=-3;
  end;
if ID=10025 then QB309=-4;
if ID=6697 then QC455=-1;
if ID=5976 then do;
  Q0853=1;  Q0859=-4;  Q0865=-4;  QC209=0;  QC455=2;  Q1017=-3;  Q1019=-3;  Q1021=-3;
  end;
if ID=1401 then do;
  QD161=1;  QD169=-4;
  end;
if ID=4475 | ID=5285 | ID=11598 then do;
  QD443=-4;
  end;
if ID=2367 | ID=2684 | ID=2695 | ID=3366 then do;
   QC435=0;   QC437=-3;   QC443=-3;   QC445=-3;
   end;
if ID=8059 | ID=8876 then Q1029=2;
if ID=12052 then Q2512=7;

if QB461=-1 | QB461=-2 then QB461=QB461;
else if QB461=999996 then QB461=-3;
  else if QB461>=0 then do;
    if QB467=-3 then QB461=QB461 * 100 + 99;
      else if QB467=-2 then QB461=QB461 * 100 + 98;
        else if QB467=-1 then QB461=QB461 * 100 + 97;
          else if QB467>=0 then QB461=QB461 * 100 + QB467;
            else QB461=-3;
  end;
else QB461=QB467;
QB467=-4;
if QB461>9999999 then do;
 put skip edit (NORCID,QB443,QB449) (F(10));
 QB461=9999995;
end;

if QC461=-1 | QC461=-2 then QC461=QC461;
else if QC461=999996 then QC461=-3;
  else if QC461>=0 then do;
    if QC467=-3 then QC461=QC461 * 100 + 99;
      else if QC467=-2 then QC461=QC461 * 100 + 98;
        else if QC467=-1 then QC461=QC461 * 100 + 97;
          else if QC467>=0 then QC461=QC461 * 100 + QC467;
            else QC461=-3;
  end;
else QC461=QC467;
QC467=-4;
if QC461>9999999 then do;
 put skip edit (NORCID,QC443,QC449) (F(10));
 QC461=9999995;
end;

if QD461=-1 | QD461=-2 then QD461=QD461;
else if QD461=999996 then QD461=-3;
  else if QD461>=0 then do;
    if QD467=-3 then QD461=QD461 * 100 + 99;
```

```
    else if QD467=-2 then QD461=QD461 * 100 + 98;
      else if QD467=-1 then QD461=QD461 * 100 + 97;
        else if QD467>=0 then QD461=QD461 * 100 + QD467;
          else QD461=-3;
  end;
else QD461=QD467;
QD467=-4;
if QD461>9999999 then do;
 put skip edit (NORCID,QD443,QD449) (F(10));
 QD461=9999995;
end;

if QE461=-1 | QE461=-2 then QE461=QE461;
 else if QE461=999996 then QE461=-3;
  else if QE461>=0 then do;
    if QE467=-3 then QE461=QE461 * 100 + 99;
     else if QE467=-2 then QE461=QE461 * 100 + 98;
       else if QE467=-1 then QE461=QE461 * 100 + 97;
         else if QE467>=0 then QE461=QE461 * 100 + QE467;
           else QE461=-3;
  end;
else QE461=QE467;
QE467=-4;
if QE461>9999999 then do;
 put skip edit (NORCID,QE443,QE449) (F(10));
 QE461=9999995;
end;

if QF461=-1 | QF461=-2 then QF461=QF461;
else if QF461=999996 then QF461=-3;
  else if QF461>=0 then do;
    if QF467=-3 then QF461=QF461 * 100 + 99;
     else if QF467=-2 then QF461=QF461 * 100 + 98;
       else if QF467=-1 then QF461=QF461 * 100 + 97;
         else if QF467>=0 then QF461=QF461 * 100 + QF467;
           else QF461=-3;
  end;
else QF461=QF467;
QF467=-4;
if QF461>9999999 then do;
 put skip edit (NORCID,QF443,QF449) (F(10));
 QF461=9999995;
end;

if QB461>=10000000 then QB461=9999995;

/* bad within job gaps for first job */
if ID=83 | ID=2661 | ID=2764 | ID=3061 | ID=3253 | ID=3326 | ID=4218 | ID=4575 | ID=5203 | ID=5343 |
        ID=5517 | ID=5676 | ID=6117 | ID=6122 | ID=6317 | ID=7224 | ID=7446 | ID=7999 | ID=10170 |
        ID=11083 | ID=12515 then do;
 QB223=0;  QB227=-4;  QB229=-4;  QB231=-4;  QB233=-4;  QB235=-4;  QB237=-4;  QB239=-4;
 end;
if ID=2562 then do;
 QB223=0;  QB227=-4;  QB229=-4;  QB231=-4;  QB233=-4;  QB235=-4;  QB237=-4;
 QB239=-4;  Q1019=3;  Q1025=25;
 end;
```

```
if ID=4571 then do;
 QB227=7;  QB229=17;  QB231=91;  QB233=8;  QB235=2;  QB237=91;  QB262=-4;  QB264=-4;
 QB266=-4;  QB268=-4;  QB270=-4;  QB272=-4;  QB274=-4;  QB330=-4;  QB332=-4;  QB334=-4;
 QB336=-4;  QB338=-4;  QB340=-4;  QB342=-4;
 end;
if ID=5704 then do;
 QB330=-4;  QB332=-4;  QB334=-4;  QB336=-4;  QB338=-4;  QB340=-4;  QB342=-4;
 end;
if ID=5880 then do;
 QB223=0;  QB227=-4;  QB229=-4;  QB231=-4;  QB233=-4;  QB235=-4;  QB237=-4;
 QB239=-4;  QB241=-4;  QB262=-4;  QB264=-4;  QB266=-4;  QB268=-4;  QB270=-4;
 QB272=-4;  QB274=-4;  QB309=-4;  QB320=-4;
 end;
if ID=10075 | ID=10076 then do;
 QB262=-4;  QB264=-4;  QB266=-4;  QB268=-4;  QB270=-4;  QB272=-4;  QB274=-4;
 end;
if ID=524 then do;
 QB223=0;  QB227=-4;  QB229=-4;  QB231=-4;  QB233=-4;  QB235=-4;  QB237=-4;  QB239=-4;
 end;


/* bad within job gaps for second job */
if ID=1698 | ID=2149 | ID=3041 | ID=3643 | ID=5603 | ID=6316 | ID=7174 | ID=7618 | ID=8416 | ID=8749 |
         ID=9643 | ID=10936 | ID=11841 then do;
 QC223=0;  QC227=-4;  QC229=-4;  QC231=-4;  QC233=-4;  QC235=-4;  QC237=-4;  QC239=-4;
 end;
if ID=8749 then do;
 QC223=0;  QC227=-4;  QC229=-4;  QC231=-4;  QC233=-4;  QC235=-4;  QC237=-4;
 QC239=-4;  QC241=-4;
 end;
if ID=850 then do;
 QC223=-3;  QC227=-3;  QC229=-3;  QC231=-3;  QC233=-3; QC235=-3;  QC237=-3;  QC239=-3;
 end;
if ID=1831 then do;
 QC223=-3;  QC227=-3;  QC229=-3;  QC231=-3;  QC233=-3; QC235=-3;  QC237=-3;  QC239=-3;
 end;
if ID=1855 then QC179=-3;
if ID=2304 then do;
 QC262=-4;  QC264=-4;  QC266=-4;  QC268=-4;  QC270=-4;  QC272=-4;  QC274=-4;
 Q1017=-4;  Q1019=-4;  Q1021=-4;  Q1023=-4;  Q1025=-4;  Q1027=-4;  Q1029=-4;
 end;
if ID=5168 then do;
 QC223=0;  QC227=-4;  QC229=-4;  QC231=-4;  QC233=-4;  QC235=-4;  QC237=-4;
 QC239=-4;  QC262=-4;  QC264=-4;  QC266=-4;  QC268=-4;  QC270=-4;  QC272=-4;
 QC274=-4;  QC309=-4;  QC320=-4;  QC330=-4;  QC332=-4;  QC334=-4;  QC336=-4;
 QC338=-4;  QC340=-4;  QC342=-4;  QC344=-4;  QC355=-4;
 end;
if ID=5428 then do;
 QC223=0;  QC227=-4;  QC229=-4;  QC231=-4;  QC233=-4;  QC235=-4;  QC237=-4;
 QC239=-4;  QC241=-4;  QC262=-4;  QC264=-4;  QC266=-4;  QC268=-4;  QC270=-4;
 QC272=-4;  QC274=-4;  QC309=-4;  QC320=-4;
 end;
if ID=5599 then do;
 QC330=-4;  QC332=-4;  QC334=-4;  QC336=-4;  QC338=-4; QC340=-4;  QC342=-4;  QC344=-4;
 end;
if ID=6912 then QC229=-3;
if ID=9659 | ID=12002 then QC179=-3;
```

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if ID=7465 then do;
  QC223=0;  QC227=-4;  QC229=-4;  QC231=-4;  QC233=-4;  QC235=-4;  QC237=-4;
  QC239=-4;  QC262=-4;  QC264=-4;  QC266=-4;  QC268=-4;  QC270=-4;  QC272=-4;  QC274=-4;
  end;
if ID=2541 | ID=8858 then do;
  QC262=-4;  QC264=-4;  QC266=-4;  QC268=-4;  QC270=-4;  QC272=-4;  QC274=-4;
  end;
if ID=7340 then do;
  QC262=-4;  QC264=-4;  QC266=-4;  QC268=-4;  QC270=-4;  QC272=-4;  QC274=-4;
  end;
if ID=1481 then do;
  QC262=-4;  QC264=-4;  QC266=-4;  QC268=-4;  QC270=-4;  QC272=-4;  QC274=-4;
  QC309=-4;  Q1017=6;  Q1019=4;  Q1021=91;  Q1023=8;  Q1025=4;  Q1027=91;
  Q1029=-3;  Q1040=-3;  Q1046=-3;
  end;

/* bad within job gaps for third job */
if ID=1021 then do;
  QD223=0;  QD227=-4;  QD229=-4;  QD231=-4;  QD233=-4;  QD235=-4;  QD237=-4;
  QD239=-4;  QD241=-4;
  end;
if ID=7340 then do;
  QD262=-4;  QD264=-4;  QD266=-4;  QD268=-4;  QD270=-4;  QD272=-4;  QD274=-4;  QD309=-4;
  end;
if ID=8416 then do;
  QD330=-4;  QD332=-4;  QD334=-4;  QD336=-4;  QD338=-4;  QD340=-4;  QD342=-4;
  end;
if ID=8576 then do;
  QD223=0;  QD227=-4;  QD229=-4;  QD231=-4;  QD233=-4;  QD235=-4;  QD237=-4;  QD239=-4;
  end;

/* bad within job gaps for fourth job */
if ID=4181 | ID=7201 then do;
  QE223=0;  QE227=-4;  QE229=-4;  QE231=-4;  QE233=-4;  QE235=-4;  QE237=-4;  QE239=-4;
  end;
if ID=9303 then do;
  QE223=0;  QE227=-4;  QE229=-4;  QE231=-4;  QE233=-4;  QE235=-4;  QE237=-4;
  QE239=-4;  QE241=-4;
  end;

/* bad within job gaps for fifth job */
if ID=2228 then do;
  QF223=0;  QF227=-4;  QF229=-4;  QF231=-4;  QF233=-4;  QF235=-4;  QF237=-4;  QF239=-4;
  end;
/* end rewrite to 1991 data tape */

SKIPME:
  PR=1;
  do J=2 to NEWYEAR-1;
    if OLDHIST(J).OWT > 0 then PR=J;
  end;
  WORK_HISTORY(NEWYEAR)=-4;
  CPS_HOURLYWAGE(NEWYEAR)=-4;
  if (NORCIDS^=X(1)) then WT91 = 0; /* skipme: missing newyear w.h. data */
  if WT91 < 0 then WT91 = 0;
  WEIGHT(NEWYEAR)=WT91;
```

```
  if WEIGHT(NEWYEAR)=0 then do;
    CPS_HOURLYWAGE(NEWYEAR)=-5;
    WORK_HISTORY(NEWYEAR)=-5;
    WEIGHT(NEWYEAR)=0 ;
    WTZERO=WTZERO+1;
  end;
  else do;
    call NEWVARIABLES;     /* read addjob variables */
    call CALC(NEWYEAR);
    call SUMMER(NEWYEAR);
    do I = 1 to 5;  /** compute cps hourly wage **/
      if CPSJOB(NEWYEAR,I)=1 then CPS_HOURLYWAGE(NEWYEAR) =
        HOURLYWAGE(NEWYEAR,I);
    end;

    /*** COMPUTE CURRENT JOBEVER() ***/
    JOBEVER(NEWYEAR)=0;          /* find greatest job cnt in hold hist */
    do I = (NEWYEAR-1) to 1 by -1 WHILE(JOBEVER(NEWYEAR)=0);
      if OLDHIST(I).OJOBEVER= -3 then JOBEVER(NEWYEAR)=-3;
      else if OLDHIST(I).OJOBEVER>0 then JOBEVER(NEWYEAR)=OLDHIST(I).OJOBEVER;
    end;
    if JOBEVER(NEWYEAR)>=0 then do; /* add any additional jobs ?        */
      do I=1 to 10;
        if (NUMBER(NEWYEAR,I)>100 & (PREVIOUSEMP#(NEWYEAR,I)=-3 |
          PREVIOUSEMP#(NEWYEAR,I)=0) ) then JOBEVER(NEWYEAR)=-3;
        else if (NUMBER(NEWYEAR,I)>100 & PREVIOUSEMP#(NEWYEAR,I)=-4 &
          JOBEVER(NEWYEAR)>=0 )
          then JOBEVER(NEWYEAR)=JOBEVER(NEWYEAR)+1;
      end;
    end;
  end;

  write file(NEWXVAR) from (XVARS);
  kount_XVR=kount_XVR+1;
  write file(NEWWORK) from (VARIABLES);
  kount_out=kount_out+1;
  put file(OUTDISK) edit (ID,MILWKSL(NEWYEAR),MILWKSC(NEWYEAR),WORKC(NEWYEAR),
        HOURC(NEWYEAR),WUMPC(NEWYEAR),WOLFC(NEWYEAR),MISSC(NEWYEAR),
        WORKL(NEWYEAR),HOURL(NEWYEAR),WUMPL(NEWYEAR),WOLFL(NEWYEAR),
        WBID(NEWYEAR),MISSL(NEWYEAR),CPS_HOURLYWAGE(NEWYEAR),
        HOURLYWAGE(NEWYEAR,1),HOURLYWAGE(NEWYEAR,2),
        HOURLYWAGE(NEWYEAR,3),HOURLYWAGE(NEWYEAR,4),
        HOURLYWAGE(NEWYEAR,5),JOBEVER(NEWYEAR))(COL(1),21(F(7)));
  go to READ1;  /*** MAIN LOOP ***/

1NEWVARIABLES:PROC;
 dcl ADDJVBLS(703) float dec(6);
 STARTM(NEWYEAR,1)=QB175;        STARTD(NEWYEAR,1)=QB177;
 STARTY(NEWYEAR,1)=QB179;        STARTM(NEWYEAR,2)=QC175;
 STARTD(NEWYEAR,2)=QC177;        STARTY(NEWYEAR,2)=QC179;
 STARTM(NEWYEAR,3)=QD175;        STARTD(NEWYEAR,3)=QD177;
 STARTY(NEWYEAR,3)=QD179;        STARTM(NEWYEAR,4)=QE175;
 STARTD(NEWYEAR,4)=QE177;        STARTY(NEWYEAR,4)=QE179;
 STARTM(NEWYEAR,5)=QF175;        STARTD(NEWYEAR,5)=QF177;
 STARTY(NEWYEAR,5)=QF179;        STOPM(NEWYEAR,1)=QB211;
 STOPD(NEWYEAR,1)=QB213;         STOPY(NEWYEAR,1)=QB215;
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STOPM(NEWYEAR,2)=QC211;          STOPD(NEWYEAR,2)=QC213;
STOPY(NEWYEAR,2)=QC215;          STOPM(NEWYEAR,3)=QD211;
STOPD(NEWYEAR,3)=QD213;          STOPY(NEWYEAR,3)=QD215;
STOPM(NEWYEAR,4)=QE211;          STOPD(NEWYEAR,4)=QE213;
STOPY(NEWYEAR,4)=QE215;          STOPM(NEWYEAR,5)=QF211;
STOPD(NEWYEAR,5)=QF213;          STOPY(NEWYEAR,5)=QF215;
LASTINT(NEWYEAR)=
  CEIL(WEEK(OLDHIST(PR).OINTM,OLDHIST(PR).OINTD,OLDHIST(PR).OINTY)+1/7);

/*** delete me!! hand edit for quick fix 6/17/92 ****/
if ID=3617 then LASTINT(NEWYEAR)=CEIL(WEEK(8,14,90)+1/7);
/******************************************/

INT(NEWYEAR)=FLOOR(WEEK(Q2512,Q2514,SURVEY_YR));
INTM(NEWYEAR)=Q2512;
INTD(NEWYEAR)=Q2514;
 /* if int(newyear)=-3 then int(newyear)=-3; */
if WEIGHT(NEWYEAR)>0 then INTY(NEWYEAR)=SURVEY_YR;
HOURDAY(NEWYEAR,1)=QB433;         HOURDAY(NEWYEAR,2)=QC433;
HOURDAY(NEWYEAR,3)=QD433;         HOURDAY(NEWYEAR,4)=QE433;
HOURDAY(NEWYEAR,5)=QF433;
PAYRATE(NEWYEAR,1)=QB461;         PAYRATE(NEWYEAR,2)=QC461;
PAYRATE(NEWYEAR,3)=QD461;         PAYRATE(NEWYEAR,4)=QE461;
PAYRATE(NEWYEAR,5)=QF461;
TIMERATE(NEWYEAR,1)=QB469;        TIMERATE(NEWYEAR,2)=QC469;
TIMERATE(NEWYEAR,3)=QD469;        TIMERATE(NEWYEAR,4)=QE469;
TIMERATE(NEWYEAR,5)=QF469;
UNION(NEWYEAR,1)=QB527;           UNION(NEWYEAR,2)=QC527;
UNION(NEWYEAR,3)=QD527;           UNION(NEWYEAR,4)=QE527;
UNION(NEWYEAR,5)=QF527;
GOVTJOB(NEWYEAR,1)=-4;            GOVTJOB(NEWYEAR,2)=-4;
GOVTJOB(NEWYEAR,3)=-4;            GOVTJOB(NEWYEAR,4)=-4;
GOVTJOB(NEWYEAR,5)=-4;
if QB149>-4 then PREVIOUSEMP#(NEWYEAR,1)=QB149; else PREVIOUSEMP#(NEWYEAR,1)=QB161;
if QC149>-4 then PREVIOUSEMP#(NEWYEAR,2)=QC149; else PREVIOUSEMP#(NEWYEAR,2)=QC161;
if QD149>-4 then PREVIOUSEMP#(NEWYEAR,3)=QD149; else PREVIOUSEMP#(NEWYEAR,3)=QD161;
if QE149>-4 then PREVIOUSEMP#(NEWYEAR,4)=QE149; else PREVIOUSEMP#(NEWYEAR,4)=QE161;
if QF149>-4 then PREVIOUSEMP#(NEWYEAR,5)=QF149; else PREVIOUSEMP#(NEWYEAR,5)=QF161;
PRETEN(NEWYEAR,1)=QB173;          PRETEN(NEWYEAR,2)=QC173;
PRETEN(NEWYEAR,3)=QD173;          PRETEN(NEWYEAR,4)=QE173;
PRETEN(NEWYEAR,5)=QF173;
if QB175>-4 then do;
  START(NEWYEAR,1)=WEEK(QB175,QB177,QB179);
  STOP(NEWYEAR,1)=WEEK(QB211,QB213,QB215);
end;
if QC175>-4 then do;
  START(NEWYEAR,2)=WEEK(QC175,QC177,QC179);
  STOP(NEWYEAR,2)=WEEK(QC211,QC213,QC215);
end;
if QD175>-4 then do;
  START(NEWYEAR,3)=WEEK(QD175,QD177,QD179);
  STOP(NEWYEAR,3)=WEEK(QD211,QD213,QD215);
end;
if QE175>-4 then do;
  START(NEWYEAR,4)=WEEK(QE175,QE177,QE179);
  STOP(NEWYEAR,4)=WEEK(QE211,QE213,QE215);
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```
end;
if QF175>-4 then do;
  START(NEWYEAR,5)=WEEK(QF175,QF177,QF179);
  STOP(NEWYEAR,5)=WEEK(QF211,QF213,QF215);
end;

PAST(NEWYEAR,1)=QB169;                    PAST(NEWYEAR,2)=QC169;
PAST(NEWYEAR,3)=QD169;                    PAST(NEWYEAR,4)=QE169;
PAST(NEWYEAR,5)=QF169;
CURRENT(NEWYEAR,1)=QB209;                 CURRENT(NEWYEAR,2)=QC209;
CURRENT(NEWYEAR,3)=QD209;                 CURRENT(NEWYEAR,4)=QE209;
CURRENT(NEWYEAR,5)=QF209;
WHYLEFT(NEWYEAR,1)=QB217;                 WHYLEFT(NEWYEAR,2)=QC217;
WHYLEFT(NEWYEAR,3)=QD217;                 WHYLEFT(NEWYEAR,4)=QE217;
WHYLEFT(NEWYEAR,5)=QF217;
WEEKSNOTWORKED(NEWYEAR,1)=QB223;          WEEKSNOTWORKED(NEWYEAR,2)=QC223;
WEEKSNOTWORKED(NEWYEAR,3)=QD223;          WEEKSNOTWORKED(NEWYEAR,4)=QE223;
WEEKSNOTWORKED(NEWYEAR,5)=QF223;
CPSJOB(NEWYEAR,1)=QB435;                  CPSJOB(NEWYEAR,2)=QC435;
CPSJOB(NEWYEAR,3)=QD435;                  CPSJOB(NEWYEAR,4)=QE435;
CPSJOB(NEWYEAR,5)=QF435;
if QB435=1 then do;
  INDUSTRY(NEWYEAR,1)=Q0839;                  OCCUPATION(NEWYEAR,1)=Q0842;
  CLASSWORKER(NEWYEAR,1)=Q0853;
  if Q0865=-4 then HOURSWEEK(NEWYEAR,1)=Q0859;
  else if Q0865^=-4 then HOURSWEEK(NEWYEAR,1)=Q0865;
end;
else do;
  INDUSTRY(NEWYEAR,1)=QB452;                  OCCUPATION(NEWYEAR,1)=QB449;
  CLASSWORKER(NEWYEAR,1)=QB455;
  if QB443=-4 then HOURSWEEK(NEWYEAR,1)=QB437;
  else if QB443^=-4 then HOURSWEEK(NEWYEAR,1)=QB443;
end;
if QC435=1 then do;
  INDUSTRY(NEWYEAR,2)=Q0839;                  OCCUPATION(NEWYEAR,2)=Q0842;
  CLASSWORKER(NEWYEAR,2)=Q0853;
  if Q0865=-4 then HOURSWEEK(NEWYEAR,2)=Q0859;
  else if Q0865^=-4 then HOURSWEEK(NEWYEAR,2)=Q0865;
end;
else do;
  INDUSTRY(NEWYEAR,2)=QC452;                  OCCUPATION(NEWYEAR,2)=QC449;
  CLASSWORKER(NEWYEAR,2)=QC455;
  if QC443=-4 then HOURSWEEK(NEWYEAR,2)=QC437;
  else if QC443^=-4 then HOURSWEEK(NEWYEAR,2)=QC443;
end;
if QD435=1 then do;
  INDUSTRY(NEWYEAR,3)=Q0839;                  OCCUPATION(NEWYEAR,3)=Q0842;
  CLASSWORKER(NEWYEAR,3)=Q0853;
  if Q0865=-4 then HOURSWEEK(NEWYEAR,3)=Q0859;
  else if Q0865^=-4 then HOURSWEEK(NEWYEAR,3)=Q0865;
end;
else do;
  INDUSTRY(NEWYEAR,3)=QD452;                  OCCUPATION(NEWYEAR,3)=QD449;
  CLASSWORKER(NEWYEAR,3)=QD455;
  if QD443=-4 then HOURSWEEK(NEWYEAR,3)=QD437;
  else if QD443^=-4 then HOURSWEEK(NEWYEAR,3)=QD443;
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end;
if QE435=1 then do;
  INDUSTRY(NEWYEAR,4)=Q0839;                    OCCUPATION(NEWYEAR,4)=Q0842;
  CLASSWORKER(NEWYEAR,4)=Q0853;
  if Q0865=-4 then HOURSWEEK(NEWYEAR,4)=Q0859;
  else if Q0865^=-4 then HOURSWEEK(NEWYEAR,4)=Q0865;
end;
else do;
  INDUSTRY(NEWYEAR,4)=QE452;                    OCCUPATION(NEWYEAR,4)=QE449;
  CLASSWORKER(NEWYEAR,4)=QE455;
  if QE443=-4 then HOURSWEEK(NEWYEAR,4)=QE437;
  else if QE443^=-4 then HOURSWEEK(NEWYEAR,4)=QE443;
end;
if QF435=1 then do;
  INDUSTRY(NEWYEAR,5)=Q0839;                    OCCUPATION(NEWYEAR,5)=Q0842;
  CLASSWORKER(NEWYEAR,5)=Q0853;
  if Q0865=-4 then HOURSWEEK(NEWYEAR,5)=Q0859;
  else if Q0865^=-4 then HOURSWEEK(NEWYEAR,5)=Q0865;
end;
else do;
  INDUSTRY(NEWYEAR,5)=QF452;                    OCCUPATION(NEWYEAR,5)=QF449;
  CLASSWORKER(NEWYEAR,5)=QF455;
  if QF443=-4 then HOURSWEEK(NEWYEAR,5)=QF437;
  else if QF443^=-4 then HOURSWEEK(NEWYEAR,5)=QF443;
end;
if QB227>-4 then do;
  PERIODSTART(NEWYEAR,1,1)=WEEK(QB227,QB229,QB231);
  PERIODSTOP(NEWYEAR,1,1)=WEEK(QB233,QB235,QB237);
end;
if QB262>-4 then do;
  PERIODSTART(NEWYEAR,1,2)=WEEK(QB262,QB264,QB266);
  PERIODSTOP(NEWYEAR,1,2)=WEEK(QB268,QB270,QB272);
end;
if QB330>-4 then do;
  PERIODSTART(NEWYEAR,1,3)=WEEK(QB330,QB332,QB334);
  PERIODSTOP(NEWYEAR,1,3)=WEEK(QB336,QB338,QB340);
end;
if QC227>-4 then do;
  PERIODSTART(NEWYEAR,2,1)=WEEK(QC227,QC229,QC231);
  PERIODSTOP(NEWYEAR,2,1)=WEEK(QC233,QC235,QC237);
end;
if QC262>-4 then do;
  PERIODSTART(NEWYEAR,2,2)=WEEK(QC262,QC264,QC266);
  PERIODSTOP(NEWYEAR,2,2)=WEEK(QC268,QC270,QC272);
end;
if QC330>-4 then do;
  PERIODSTART(NEWYEAR,2,3)=WEEK(QC330,QC332,QC334);
  PERIODSTOP(NEWYEAR,2,3)=WEEK(QC336,QC338,QC340);
end;
if QD227>-4 then do;
  PERIODSTART(NEWYEAR,3,1)=WEEK(QD227,QD229,QD231);
  PERIODSTOP(NEWYEAR,3,1)=WEEK(QD233,QD235,QD237);
end;
if QD262>-4 then do;
  PERIODSTART(NEWYEAR,3,2)=WEEK(QD262,QD264,QD266);
  PERIODSTOP(NEWYEAR,3,2)=WEEK(QD268,QD270,QD272);
```

```
end;
if QD330>-4 then do;
  PERIODSTART(NEWYEAR,3,3)=WEEK(QD330,QD332,QD334);
  PERIODSTOP(NEWYEAR,3,3)=WEEK(QD336,QD338,QD340);
end;
if QE227>-4 then do;
  PERIODSTART(NEWYEAR,4,1)=WEEK(QE227,QE229,QE231);
  PERIODSTOP(NEWYEAR,4,1)=WEEK(QE233,QE235,QE237);
end;
if QE262>-4 then do;
  PERIODSTART(NEWYEAR,4,2)=WEEK(QE262,QE264,QE266);
  PERIODSTOP(NEWYEAR,4,2)=WEEK(QE268,QE270,QE272);
end;
if QE330>-4 then do;
  PERIODSTART(NEWYEAR,4,3)=WEEK(QE330,QE332,QE334);
  PERIODSTOP(NEWYEAR,4,3)=WEEK(QE336,QE338,QE340);
end;
if QF227>-4 then do;
  PERIODSTART(NEWYEAR,5,1)=WEEK(QF227,QF229,QF231);
  PERIODSTOP(NEWYEAR,5,1)=WEEK(QF233,QF235,QF237);
end;
if QF262>-4 then do;
  PERIODSTART(NEWYEAR,5,2)=WEEK(QF262,QF264,QF266);
  PERIODSTOP(NEWYEAR,5,2)=WEEK(QF268,QF270,QF272);
end;
if QF330>-4 then do;
  PERIODSTART(NEWYEAR,5,3)=WEEK(QF330,QF332,QF334);
  PERIODSTOP(NEWYEAR,5,3)=WEEK(QF336,QF338,QF340);
end;
REASON(NEWYEAR,1,1)=QB239;        REASON(NEWYEAR,1,2)=QB274;
REASON(NEWYEAR,1,3)=QB342;        REASON(NEWYEAR,2,1)=QC239;
REASON(NEWYEAR,2,2)=QC274;        REASON(NEWYEAR,2,3)=QC342;
REASON(NEWYEAR,3,1)=QD239;        REASON(NEWYEAR,3,2)=QD274;
REASON(NEWYEAR,3,3)=QD342;        REASON(NEWYEAR,4,1)=QE239;
REASON(NEWYEAR,4,2)=QE274;        REASON(NEWYEAR,4,3)=QE342;
REASON(NEWYEAR,5,1)=QF239;        REASON(NEWYEAR,5,2)=QF274;
REASON(NEWYEAR,5,3)=QF342;
ALL(NEWYEAR,1,1)=QB241;           ALL(NEWYEAR,1,2)=QB309;
ALL(NEWYEAR,1,3)=QB344;           ALL(NEWYEAR,2,1)=QC241;
ALL(NEWYEAR,2,2)=QC309;           ALL(NEWYEAR,2,3)=QC344;
ALL(NEWYEAR,3,1)=QD241;           ALL(NEWYEAR,3,2)=QD309;
ALL(NEWYEAR,3,3)=QD344;           ALL(NEWYEAR,4,1)=QE241;
ALL(NEWYEAR,4,2)=QE309;           ALL(NEWYEAR,4,3)=QE344;
ALL(NEWYEAR,5,1)=QF241;           ALL(NEWYEAR,5,2)=QF309;
ALL(NEWYEAR,5,3)=QF344;
LOOK(NEWYEAR,1,1)=QB252;          LOOK(NEWYEAR,1,2)=QB320;
LOOK(NEWYEAR,1,3)=QB355;          LOOK(NEWYEAR,2,1)=QC252;
LOOK(NEWYEAR,2,2)=QC320;          LOOK(NEWYEAR,2,3)=QC355;
LOOK(NEWYEAR,3,1)=QD252;          LOOK(NEWYEAR,3,2)=QD320;
LOOK(NEWYEAR,3,3)=QD355;          LOOK(NEWYEAR,4,1)=QE252;
LOOK(NEWYEAR,4,2)=QE320;          LOOK(NEWYEAR,4,3)=QE355;
LOOK(NEWYEAR,5,1)=QF252;          LOOK(NEWYEAR,5,2)=QF320;
LOOK(NEWYEAR,5,3)=QF355;

/*        extra gaps             */
if ID=912 then do;
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```
    PERIODSTART(NEWYEAR,1,4)=WEEK(4,14,91);   PERIODSTOP(NEWYEAR,1,4)=WEEK(4,21,91);
    REASON(NEWYEAR,1,4)= 4;                   ALL(NEWYEAR,1,4)=1;
 end;
 if ID=1841 then do;
    PERIODSTART(NEWYEAR,3,4)=WEEK(6,30,91);   PERIODSTOP(NEWYEAR,3,4)=WEEK(7,15,91);
    REASON(NEWYEAR,3,4)= 4;                   ALL(NEWYEAR,3,4)=1;
 end;
 if ID=1876 then do;
    PERIODSTART(NEWYEAR,1,4)=WEEK(5,27,91);   PERIODSTOP(NEWYEAR,1,4)=WEEK(6,3,91);
    REASON(NEWYEAR,1,4)= -3;                  ALL(NEWYEAR,1,4)=1;
 end;
 if ID=2174 then do;
    PERIODSTART(NEWYEAR,1,4)=WEEK(11,5,90);   PERIODSTOP(NEWYEAR,1,4)=WEEK(11,10,90);
    REASON(NEWYEAR,1,4)=1;
 end;
 if ID=3107 then do;
    PERIODSTART(NEWYEAR,2,4)=WEEK(3,1,91);    PERIODSTOP(NEWYEAR,2,4)=WEEK(3,16,91);
    REASON(NEWYEAR,2,4)= 9;
 end;
 if ID=3352 then do;
    PERIODSTART(NEWYEAR,2,4)=WEEK(7,27,91);   PERIODSTOP(NEWYEAR,2,4)=WEEK(8,14,91);
    REASON(NEWYEAR,2,4)= 4;                   ALL(NEWYEAR,2,4)=1;
 end;
 if ID=3708 then do;
    PERIODSTART(NEWYEAR,2,4)=WEEK(6,5,91);    PERIODSTOP(NEWYEAR,2,4)=WEEK(7,11,91);
    REASON(NEWYEAR,2,4)= 4;                   ALL(NEWYEAR,2,4)=1;
 end;
 if ID=5339 then do;
    PERIODSTART(NEWYEAR,1,4)=WEEK(6,4,91);    PERIODSTOP(NEWYEAR,1,4)=WEEK(6,29,91);
    REASON(NEWYEAR,1,4)= 1;
 end;
 if ID=5389 then do;
    PERIODSTART(NEWYEAR,2,4)=WEEK(2,6,91);    PERIODSTOP(NEWYEAR,2,4)=WEEK(3,15,91);
    REASON(NEWYEAR,2,4)= 4;                   ALL(NEWYEAR,2,4)=1;
 end;
 if ID=5505 then do;
    PERIODSTART(NEWYEAR,1,4)=WEEK(5,13,91);   PERIODSTOP(NEWYEAR,1,4)=WEEK(5,18,91);
    REASON(NEWYEAR,1,4)= 2;
 end;
 if ID=5627 then do;
    PERIODSTART(NEWYEAR,1,4)=WEEK(5,29,91);   PERIODSTOP(NEWYEAR,1,4)=WEEK(6,19,91);
    REASON(NEWYEAR,1,4)= 14;
 end;
 if ID=5791 then do;
    PERIODSTART(NEWYEAR,1,4)=WEEK(3,15,91);   PERIODSTOP(NEWYEAR,1,4)=WEEK(3,30,91);
    REASON(NEWYEAR,1,4)= 2;
 end;
 if ID=7384 then do;
    PERIODSTART(NEWYEAR,2,4)=WEEK(6,9,91);    PERIODSTOP(NEWYEAR,2,4)=WEEK(7,1,91);
    REASON(NEWYEAR,2,4)= 4;                   ALL(NEWYEAR,2,4)=1;
 end;
 if ID=8070 then do;
    PERIODSTART(NEWYEAR,1,4)=WEEK(3,24,91);   PERIODSTOP(NEWYEAR,1,4)=WEEK(4,1,91);
    REASON(NEWYEAR,1,4)= 4;                   ALL(NEWYEAR,1,4)=1;
 end;
 if ID=8280 then do;
```

```
    PERIODSTART(NEWYEAR,1,4)=WEEK(1,1,88);    PERIODSTOP(NEWYEAR,1,4)=WEEK(1,1,89);
    REASON(NEWYEAR,1,4)= 14;
  end;
  if ID=8704 then do;
    PERIODSTART(NEWYEAR,1,4)=WEEK(4,8,91);    PERIODSTOP(NEWYEAR,1,4)=WEEK(4,26,91);
    REASON(NEWYEAR,1,4)= 2;
  end;
  if ID=10132 then do;
    PERIODSTART(NEWYEAR,1,4)=WEEK(1,18,91);   PERIODSTOP(NEWYEAR,1,4)=WEEK(1,28,91);
    REASON(NEWYEAR,1,4)= 2;
  end;
  if ID=10565 then do;
    PERIODSTART(NEWYEAR,1,4)=WEEK(2,17,91);   PERIODSTOP(NEWYEAR,1,4)=WEEK(2,24,91);
    REASON(NEWYEAR,1,4)= 2;
  end;
  if ID=11605 then do;
    PERIODSTART(NEWYEAR,1,4)=WEEK(6,1,91);    PERIODSTOP(NEWYEAR,1,4)=WEEK(6,30,91);
    REASON(NEWYEAR,1,4)= 2;
  end;
  if ID=11995 then do;
    PERIODSTART(NEWYEAR,2,4)=WEEK(10,15,90);   PERIODSTOP(NEWYEAR,2,4)=WEEK(11,30,90);
    REASON(NEWYEAR,2,4)= 13;
  end;
  if ID=9607 then do;
    BSTART(NEWYEAR,5) = WEEK(4,1,86);          BSTOP(NEWYEAR,5)  = WEEK(8,14,89);
    BALL(NEWYEAR,5)   = -3;            BREASON(NEWYEAR,5) = -3;
    BLOOK(NEWYEAR,5)=-3;
  end;
  if ID=11844 then do;
    BSTART(NEWYEAR,5) = WEEK(10,11,90);        BSTOP(NEWYEAR,5)  = WEEK(11,8,90);
    BALL(NEWYEAR,5)   = 2;                      BREASON(NEWYEAR,5) = 16;
    BLOOK(NEWYEAR,5)=2;              BSTART(NEWYEAR,6) = WEEK(7,2,90);
    BSTOP(NEWYEAR,6)  = WEEK(7,15,90);          BALL(NEWYEAR,6)   = 1;
    BREASON(NEWYEAR,6) = 1;
  end;
/*      end extra gaps          */

  if Q1017>-4 then do;
    BSTART(NEWYEAR,1)=WEEK(Q1017,Q1019,Q1021);
    BSTOP(NEWYEAR,1)=WEEK(Q1023,Q1025,Q1027);
  end;
  if Q1050>-4 then do;
    BSTART(NEWYEAR,2)=WEEK(Q1050,Q1052,Q1054);
    BSTOP(NEWYEAR,2)=WEEK(Q1056,Q1058,Q1060);
  end;
  if Q1113>-4 then do;
    BSTART(NEWYEAR,3)=WEEK(Q1113,Q1115,Q1117);
    BSTOP(NEWYEAR,3)=WEEK(Q1119,Q1121,Q1123);
  end;
  if Q1146>-4 then do;
    BSTART(NEWYEAR,4)=WEEK(Q1146,Q1148,Q1150);
    BSTOP(NEWYEAR,4)=WEEK(Q1152,Q1154,Q1156);
  end;
  BALL(NEWYEAR,1)=Q1029;             BALL(NEWYEAR,2)=Q1062;
  BALL(NEWYEAR,3)=Q1125;             BALL(NEWYEAR,4)=Q1158;
  BLOOK(NEWYEAR,1)=Q1040;            BLOOK(NEWYEAR,2)=Q1073;
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BLOOK(NEWYEAR,3)=Q1136;              BLOOK(NEWYEAR,4)=Q1169;
BREASON(NEWYEAR,1)=Q1046;            BREASON(NEWYEAR,2)=Q1109;
BREASON(NEWYEAR,3)=Q1142;            BREASON(NEWYEAR,4)=Q1175;


CURAMIL = 0;
if (Q0460 = 1) | (Q0521 = 1) then CURAMIL = 1;
if Q0447=1 & IS03>=1 & IS03<=4 then do;
  if CURAMIL=1 then MSTOP1(NEWYEAR)=INT(NEWYEAR);
  else MSTOP1(NEWYEAR)=WEEK(Q0462,Q0468,Q0464);
  MSTART1(NEWYEAR)=LASTINT(NEWYEAR);
  if MSTART1(NEWYEAR)>=0 & MSTOP1(NEWYEAR)>=MSTART1(NEWYEAR) then
    call FILL(MSTART1(NEWYEAR),MSTOP1(NEWYEAR),7,0);
end;
if Q0509>=1 & Q0509<=4 then do;
  if Q0515=1 then do;
    MSTART2(NEWYEAR)=WEEK(Q0517,Q0523,Q0519);
    MSTOP2(NEWYEAR)=INT(NEWYEAR);
  end;
  else if Q0525=1 then do;
    MSTART2(NEWYEAR)=WEEK(Q0527,Q0529,Q0531);
    MSTOP2(NEWYEAR)=WEEK(Q0535,Q0537,Q0539);
  end;
  if MSTART2(NEWYEAR)>=0 & MSTOP2(NEWYEAR)>=MSTART2(NEWYEAR) then
    call FILL(MSTART2(NEWYEAR),MSTOP2(NEWYEAR),7,0);
end;
if MSTART1(NEWYEAR)>-4 | MSTART2(NEWYEAR)>-4 | MSTOP1(NEWYEAR)>-4
  | MSTOP2(NEWYEAR)>-4 then do;
  if MSTART1(NEWYEAR)=-3 | MSTART2(NEWYEAR)=-3 | MSTOP1(NEWYEAR)=-3
    | MSTOP2(NEWYEAR)=-3 then do;
    MILWKSL(NEWYEAR)=-3;
    MILWKSC(NEWYEAR)=-3;
  end;
 /* else if MSTART1(NEWYEAR) > MSTOP1(NEWYEAR) | MSTART2(NEWYEAR) >
         MSTOP2(NEWYEAR) then do;
    MILWKSL(NEWYEAR)=-3;
    MILWKSC(NEWYEAR)=-3;
  end; */
  else do;
    MILWKSL(NEWYEAR)=0;
    MILWKSC(NEWYEAR)=0;
    if MSTART1(NEWYEAR)>=0 then MILWKSL(NEWYEAR)=
      MSTOP1(NEWYEAR) - MSTART1(NEWYEAR) + 1;
    if MSTART2(NEWYEAR)>=0 then MILWKSL(NEWYEAR)=
      MILWKSL(NEWYEAR) + MSTOP2(NEWYEAR) - MSTART2(NEWYEAR) + 1;
    MILWKSL(NEWYEAR)=FLOOR(MILWKSL(NEWYEAR)+.5);
  end;
end;


 /*    additional jobs / employment supplement          */
NUMVAR=117;  /* number of variables in the supplement */

 if ID=602 | ID=1217 | ID=1708 | ID=4776  | ID=5320 | ID=6969 | ID=8280 | ID=9607 | ID=11871 then do;
   read file(ADDJOBS) into (ADDJVBLS);
   kountadd=kountadd+1;
   STARTM(NEWYEAR,6)=ADDJVBLS(20);
   STARTD(NEWYEAR,6)=ADDJVBLS(21);
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STARTY(NEWYEAR,6)=ADDJVBLS(22);
STARTM(NEWYEAR,7)=ADDJVBLS(NUMVAR+20);
STARTD(NEWYEAR,7)=ADDJVBLS(NUMVAR+21);
STARTY(NEWYEAR,7)=ADDJVBLS(NUMVAR+22);
STARTM(NEWYEAR,8)=ADDJVBLS((2*NUMVAR)+20);
STARTD(NEWYEAR,8)=ADDJVBLS((2*NUMVAR)+21);
STARTY(NEWYEAR,8)=ADDJVBLS((2*NUMVAR)+22);
STARTM(NEWYEAR,9)=ADDJVBLS((3*NUMVAR)+20);
STARTD(NEWYEAR,9)=ADDJVBLS((3*NUMVAR)+21);
STARTY(NEWYEAR,9)=ADDJVBLS((3*NUMVAR)+22);
STARTM(NEWYEAR,10)=ADDJVBLS((4*NUMVAR)+20);
STARTD(NEWYEAR,10)=ADDJVBLS((4*NUMVAR)+21);
STARTY(NEWYEAR,10)=ADDJVBLS((4*NUMVAR)+22);
STOPM(NEWYEAR,6)=ADDJVBLS(24);
STOPD(NEWYEAR,6)=ADDJVBLS(25);
STOPY(NEWYEAR,6)=ADDJVBLS(26);
STOPM(NEWYEAR,7)=ADDJVBLS(NUMVAR+24);
STOPD(NEWYEAR,7)=ADDJVBLS(NUMVAR+25);
STOPY(NEWYEAR,7)=ADDJVBLS(NUMVAR+26);
STOPM(NEWYEAR,8)=ADDJVBLS((2*NUMVAR)+24);
STOPD(NEWYEAR,8)=ADDJVBLS((2*NUMVAR)+25);
STOPY(NEWYEAR,8)=ADDJVBLS((2*NUMVAR)+26);
STOPM(NEWYEAR,9)=ADDJVBLS((3*NUMVAR)+24);
STOPD(NEWYEAR,9)=ADDJVBLS((3*NUMVAR)+25);
STOPY(NEWYEAR,9)=ADDJVBLS((3*NUMVAR)+26);
STOPM(NEWYEAR,10)=ADDJVBLS((4*NUMVAR)+24);
STOPD(NEWYEAR,10)=ADDJVBLS((4*NUMVAR)+25);
STOPY(NEWYEAR,10)=ADDJVBLS((4*NUMVAR)+26);
if ADDJVBLS(7)>-4 then PREVIOUSEMP#(NEWYEAR,6)=ADDJVBLS(7);
else PREVIOUSEMP#(NEWYEAR,6)=ADDJVBLS(13);
if ADDJVBLS(124)>-4 then PREVIOUSEMP#(NEWYEAR,7)=ADDJVBLS(124);
else PREVIOUSEMP#(NEWYEAR,7)=ADDJVBLS(130);
if ADDJVBLS(241)>-4 then PREVIOUSEMP#(NEWYEAR,8)=ADDJVBLS(241);
else PREVIOUSEMP#(NEWYEAR,8)=ADDJVBLS(247);
if ADDJVBLS(358)>-4 then PREVIOUSEMP#(NEWYEAR,9)=ADDJVBLS(358);
else PREVIOUSEMP#(NEWYEAR,9)=ADDJVBLS(364);
if ADDJVBLS(475)>-4 then PREVIOUSEMP#(NEWYEAR,10)=ADDJVBLS(475);
else PREVIOUSEMP#(NEWYEAR,10)=ADDJVBLS(481);
PRETEN(NEWYEAR,6)=ADDJVBLS(19);
PRETEN(NEWYEAR,7)=ADDJVBLS(NUMVAR+19);
PRETEN(NEWYEAR,8)=ADDJVBLS((2*NUMVAR)+19);
PRETEN(NEWYEAR,9)=ADDJVBLS((3*NUMVAR)+19);
PRETEN(NEWYEAR,10)=ADDJVBLS((4*NUMVAR)+19);
OCCUPATION(NEWYEAR,6)=ADDJVBLS(100);
OCCUPATION(NEWYEAR,7)=ADDJVBLS(NUMVAR+100);
OCCUPATION(NEWYEAR,8)=ADDJVBLS((2*NUMVAR)+100);
OCCUPATION(NEWYEAR,9)=ADDJVBLS((3*NUMVAR)+100);
OCCUPATION(NEWYEAR,10)=ADDJVBLS((4*NUMVAR)+100);
INDUSTRY(NEWYEAR,6)=ADDJVBLS(101);
INDUSTRY(NEWYEAR,7)=ADDJVBLS(NUMVAR+101);
INDUSTRY(NEWYEAR,8)=ADDJVBLS((2*NUMVAR)+101);
INDUSTRY(NEWYEAR,9)=ADDJVBLS((3*NUMVAR)+101);
INDUSTRY(NEWYEAR,10)=ADDJVBLS((4*NUMVAR)+101);
CLASSWORKER(NEWYEAR,6)=ADDJVBLS(102);
CLASSWORKER(NEWYEAR,7)=ADDJVBLS(NUMVAR+102);
CLASSWORKER(NEWYEAR,8)=ADDJVBLS((2*NUMVAR)+102);
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CLASSWORKER(NEWYEAR,9)=ADDJVBLS((3*NUMVAR)+102);
CLASSWORKER(NEWYEAR,10)=ADDJVBLS((4*NUMVAR)+102);
HOURDAY(NEWYEAR,6)=ADDJVBLS(92);
HOURDAY(NEWYEAR,7)=ADDJVBLS(NUMVAR+92);
HOURDAY(NEWYEAR,8)=ADDJVBLS((2*NUMVAR)+92);
HOURDAY(NEWYEAR,9)=ADDJVBLS((3*NUMVAR)+92);
HOURDAY(NEWYEAR,10)=ADDJVBLS((4*NUMVAR)+92);
PAYRATE(NEWYEAR,6)=ADDJVBLS(105);
PAYRATE(NEWYEAR,7)=ADDJVBLS(NUMVAR+105);
PAYRATE(NEWYEAR,8)=ADDJVBLS((2*NUMVAR)+105);
PAYRATE(NEWYEAR,9)=ADDJVBLS((3*NUMVAR)+105);
PAYRATE(NEWYEAR,10)=ADDJVBLS((4*NUMVAR)+105);
TIMERATE(NEWYEAR,6)=ADDJVBLS(106);
TIMERATE(NEWYEAR,7)=ADDJVBLS(NUMVAR+106);
TIMERATE(NEWYEAR,8)=ADDJVBLS((2*NUMVAR)+106);
TIMERATE(NEWYEAR,9)=ADDJVBLS((3*NUMVAR)+106);
TIMERATE(NEWYEAR,10)=ADDJVBLS((4*NUMVAR)+106);
UNION(NEWYEAR,6)=ADDJVBLS(116);
UNION(NEWYEAR,7)=ADDJVBLS(NUMVAR+116);
UNION(NEWYEAR,8)=ADDJVBLS((2*NUMVAR)+116);
UNION(NEWYEAR,9)=ADDJVBLS((3*NUMVAR)+116);
UNION(NEWYEAR,10)=ADDJVBLS((4*NUMVAR)+116);
GOVTJOB(NEWYEAR,6)=-4;
GOVTJOB(NEWYEAR,7)=-4;
GOVTJOB(NEWYEAR,8)=-4;
GOVTJOB(NEWYEAR,9)=-4;
GOVTJOB(NEWYEAR,10)=-4;
if ID=9607 then STARTM(NEWYEAR,7)=8;
if ID=9607 then STARTD(NEWYEAR,7)=19;
if ID=9607 then STARTY(NEWYEAR,7)=88;
N=20;
do J=6 to 10;
  if ADDJVBLS(N)>-4 then do;
    START(NEWYEAR,J)=WEEK(ADDJVBLS(N),ADDJVBLS(N+1),ADDJVBLS(N+2));
    STOP(NEWYEAR,J)=WEEK(ADDJVBLS(N+4),ADDJVBLS(N+5),ADDJVBLS(N+6));
  end;
  N=N+117;
end;
N=23;
do J=6 to 10;
  CURRENT(NEWYEAR,J)=ADDJVBLS(N);
  WHYLEFT(NEWYEAR,J)=ADDJVBLS(N+4);
  if ADDJVBLS(N+74)=-4 then HOURSWEEK(NEWYEAR,J)=ADDJVBLS(N+71);
  else if ADDJVBLS(N+71)>-4 then HOURSWEEK(NEWYEAR,J)=ADDJVBLS(N+71);
  WEEKSNOTWORKED(NEWYEAR,J)=ADDJVBLS(N+7);
  PAST(NEWYEAR,J)=ADDJVBLS(N-6);
  P=N;
  do K=1 to 2;
    if ADDJVBLS(P+8)>-4 then do;
      PERIODSTART(NEWYEAR,J,K)=
        WEEK(ADDJVBLS(P+9),ADDJVBLS(P+10),ADDJVBLS(P+11));
      PERIODSTOP(NEWYEAR,J,K)=
        WEEK(ADDJVBLS(P+12),ADDJVBLS(P+13),ADDJVBLS(P+14));
    end;
    REASON(NEWYEAR,J,K)=ADDJVBLS(P+15);
    ALL(NEWYEAR,J,K)=ADDJVBLS(P+16);
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      LOOK(NEWYEAR,J,K)=ADDJVBLS(P+20);
       P=P+15;
     end;
     N=N+117;
    end;
 end;
 if ID=5320 then do;
   PERIODSTART(NEWYEAR,6,1)=-3;          PERIODSTOP(NEWYEAR,6,1)=-3;
   REASON(NEWYEAR,6,1)=-3;               ALL(NEWYEAR,6,1)=-3;
   LOOK(NEWYEAR,6,1)=-3;                 PERIODSTART(NEWYEAR,6,2)=-3;
   PERIODSTOP(NEWYEAR,6,2)=-3;           REASON(NEWYEAR,6,2)=-3;
   ALL(NEWYEAR,6,2)=-3;                  LOOK(NEWYEAR,6,2)=-3;
   PERIODSTART(NEWYEAR,6,3)=-3;          PERIODSTOP(NEWYEAR,6,3)=-3;
   REASON(NEWYEAR,6,3)=-3;               ALL(NEWYEAR,6,3)=-3;
   LOOK(NEWYEAR,6,3)=-3;                 PERIODSTART(NEWYEAR,6,4)=-3;
   PERIODSTOP(NEWYEAR,6,4)=-3;           REASON(NEWYEAR,6,4)=-3;
   ALL(NEWYEAR,6,4)=-3;                  LOOK(NEWYEAR,6,4)=-3;
   end;
 if ID=6969 then CURRENT(NEWYEAR,7)=0;
 end NEWVARIABLES;


1WEEK:PROC(MONTH,DAY,YEAR) RETURNS(float dec);
/******* The purpose of the week function is to take a date passed to it and to convert that date into a week
         number relative to 1-1-78.  Note that dates prior to 1-1-78 are assigned to week 0, missing days are
         assigned to day 15 of the month and a '-3' is returned if the date is not valid. ********/
 dcl (MONTH,DAY,YEAR) float dec(6);
 dcl MON(12) float dec(6) INIT(0,31,59,90,120,151,181,212,243,273,304,334);
 if YEAR>0 & YEAR<MAXYEAR then MAXYEAR=YEAR;
 if YEAR>0 & YEAR<78 then RETURN(0);
 else if MONTH>0 & YEAR>0 & DAY<0 then DAY=15;
 if MONTH>0 & MONTH<=12 & DAY>0 & DAY<32 & YEAR>=78 & YEAR<97 then do;
   LEAP=0;
   if YEAR>=80 then do;
     LEAP=CEIL((YEAR-80)/4);
     if MOD(YEAR,4)=0 & MONTH>2 then LEAP=LEAP+1;
   end;
   RETURN(((YEAR-78) *365 + MON(MONTH) + DAY + LEAP)/7);
 end;
 else RETURN(-3);
 end WEEK;


1CALC: PROC(YR);
 dcl YR float dec(6);
 dcl CODE float dec(6);
 CODE=-4;
 LASTINT_JOBS(YR)=0;
 do J=1 to 10;
   FLAG=0;
   if START(YR,J)>-4 | STOP(YR,J)>-4 then do;
     LASTINT_JOBS(YR)=LASTINT_JOBS(YR)+1;
     NUMBER(YR,J)=YR*100+J;
     HOURLYWAGE(YR,J)=HRP(J);
     if PAST(YR,J)=1 | PAST(YR,J)=2 then START(YR,J)=LASTINT(YR);
     if CURRENT(YR,J)=1 then STOP(YR,J)=INT(YR);
     else if STOP(YR,J)>0 & STOP(YR,J)>INT(YR) then STOP(YR,J)=INT(YR);
     if START(YR,J)>=0 & STOP(YR,J)>=START(YR,J) then do;
```

```
      START(YR,J)=CEIL(START(YR,J));
      STOP(YR,J)=CEIL(STOP(YR,J));
      TENURE(YR,J)=STOP(YR,J) - START(YR,J) + 1;
      call FILL(START(YR,J),STOP(YR,J),NUMBER(YR,J),HOURSWEEK(YR,J));
    end;
    else TENURE(YR,J)=-3;
    FLAG=1;
    if WEEKSNOTWORKED(YR,J)^=0 & WEEKSNOTWORKED(YR,J)^=-4 then do K=1 to 4;
      if PERIODSTOP(YR,J,K)>=0 & PERIODSTOP(YR,J,K)>INT(YR) then
        PERIODSTOP(YR,J,K)=INT(YR);
      if PERIODSTART(YR,J,K)>=0 & PERIODSTOP(YR,J,K)>=PERIODSTART(YR,J,K)
        then do;
        if REASON(YR,J,K)=2 then CODE=4;
        else if REASON(YR,J,K)>0 then do;
          if REASON(YR,J,K)^=3 & REASON(YR,J,K)^=4 then CODE=5;
          else do;
            if ALL(YR,J,K)=1 then CODE=5;
            else if ALL(YR,J,K)=3 then CODE=4;
            else if ALL(YR,J,K)=2 & LOOK(YR,J,K)>=0 then do;
              CODE=9;
              #WEEKS=LOOK(YR,J,K);
            end;
            else CODE=2;
          end;
        end;
        else CODE=2;
        call FILL(PERIODSTART(YR,J,K),PERIODSTOP(YR,J,K),CODE,HOURSWEEK(YR,J));
      end;
      else if K=1 then call FILL(START(YR,J),STOP(YR,J),3,HOURSWEEK(YR,J));
    end;
    if PREVIOUSEMP#(YR,J)>0 then do;
     if TENURE(YR,J)>0 & OLDHIST.OJOB(PR,PREVIOUSEMP#(YR,J),46)>0 then
     TENURE(YR,J)=TENURE(YR,J)+OLDHIST.OJOB(PR,PREVIOUSEMP#(YR,J),46);
      else TENURE(YR,J)=-3;
    end;
    if PRETEN(YR,J)>-4 then do;
      if TENURE(YR,J)>=0 & PRETEN(YR,J)>=0 then
        TENURE(YR,J)=TENURE(YR,J) + 4.3 * PRETEN(YR,J);
      else TENURE(YR,J)=-3;
     end;
    if TENURE(YR,J)<0 then TENURE(YR,J)=-3;
    else TENURE(YR,J)=FLOOR(TENURE(YR,J) + .5);
  end;
end;
FLAG=0;
do K=1 to 6;
  if BSTOP(YR,K)>=0 & BSTOP(YR,K)>INT(YR) then BSTOP(YR,K)=INT(YR);
  if BSTART(YR,K)>=0 & BSTOP(YR,K)>=BSTART(YR,K) then do;
    if BALL(YR,K)=1 then CODE=5;
    else if BALL(YR,K)=3 then CODE=4;
    else if BALL(YR,K)=2 & BLOOK(YR,K)>=0 then do;
      CODE=9;
      #WEEKS=BLOOK(YR,K);
    end;
    else CODE=2;
    call FILL(BSTART(YR,K),BSTOP(YR,K),CODE,0);
```

```
   end;
 end;
 PR=YR;
 end CALC;

1FILL:PROC(WEEK_BEGAN,WEEK_ENDED,COD,HOURS);
 dcl (WEEK_BEGAN,WEEK_ENDED,COD,HOURS) float dec;
 if HOURS<0 then HOURS=-3;
 else if HOURS=99 | HOURS=98 | HOURS=97 then HOURS=-3;
 FILLER=0;WEEK_BEGAN=CEIL(WEEK_BEGAN);WEEK_ENDED=CEIL(WEEK_ENDED);
 if WEEK_BEGAN>=0 & WEEK_ENDED>=WEEK_BEGAN then do F=WEEK_BEGAN to WEEK_ENDED;
   JJ = 1;
   if A(F)>100 & COD>100 &  PR*100+PREVIOUSEMP#((FLOOR(COD/100)),(MOD(COD,100)))
   ^=A(F) then do;
     DUP=0;
     if DUALJOB(F,1)>0 then do;
       KK = 1;
       do WHILE ((KK <= 4) & (DUALJOB(F,KK) ^= 0));
         if PR*100+PREVIOUSEMP#((FLOOR(COD/100)),(MOD(COD,100)))=
           DUALJOB(F,KK) then DUP=1;
         KK = KK + 1;
       end;
     end;
     if DUP=0 then do;
       if HOURS>0 & HOUR(F)>=0 then do;
         HOUR(F)=HOUR(F) + HOURS;
         if HOUR(F)>96 then HOUR(F)=96;
       end;
       else if HOUR(F)<96 then HOUR(F)=-3;
       if (MOD(COD,100)) = 0 | (MOD(COD,100)) > 10 then do;
         put file(sysprint)
           edit('*** (error) IN CREATING DUALJOB> ID = ',ID, '...COD = ',COD)
                (skip(1),A,F(7,0),A,F(7,0));
       end;
       else do;
         KK = 1;
         do WHILE (KK <= 4);
           if DUALJOB(F,KK) = 0 then do;
             if KK > 1 then do;
               DUALJOB(F,KK) = DUALJOB(F,KK-1);
               DUALJOB(F,KK-1) = COD;
             end;
             else DUALJOB(F,1) = COD;
             KK = 9;
           end;
           KK = KK + 1;
         end;
       end;
     end;
   end;
   else if DUALJOB(F,1)=0 & (FLAG=1 | A(F)<100) then do;
     if COD=9 then do;
       if HOURS>0 & HOUR(F)>0 & (HOUR(F) - HOURS>=0) then HOUR(F)=HOUR(F) - HOURS;
       else if HOURS>0 then HOUR(F)=0;
       else HOUR(F)=HOURS;
       if FILLER<#WEEKS & F>(WEEK_ENDED-WEEK_BEGAN-#WEEKS)/2 + WEEK_BEGAN
```

```
      then do;
        A(F)=4;
        FILLER=FILLER+1;
      end;
      else if A(F)^=4 then A(F)=5;
    end;
    else if (A(F)^=4 | COD>100) then do;
      A(F)=COD;
      if COD>100 then HOUR(F)=HOURS;
      else if HOURS>0 & COD^=3 then HOUR(F)=0;
      else HOUR(F)=HOURS;
    end;
  end;
  else if DUALJOB(F,1)>0  & FLAG=1 & (COD=2 | COD=4 | COD=5 | COD=9) then do;
    KK = 1;
    do WHILE (KK <= 4);
      if DUALJOB(F,KK) = 0 then do;
        if KK > 1 then DUALJOB(F,KK-1) = 0;
        KK = 9;
      end;
      KK = KK + 1;
      if KK = 5 then DUALJOB(F,4) = 0;
    end;
    if HOURS>0 & HOUR(F)>0 & (HOUR(F) - HOURS >=0)
      then HOUR(F)=HOUR(F) - HOURS;
    else if HOURS>0 then HOUR(F)=0;
    else HOUR(F)=HOURS;
  end;
end;
end FILL;

1SUMMER:PROC(YEAR);
dcl YEAR float dec;
CALENDAR_YEAR_SUM(YEAR)=0;
WORKL(YEAR),HOURL(YEAR),WOLFL(YEAR),WUMPL(YEAR),MISSL(YEAR), NWMISSL(YEAR)=0;
do K=LASTINT(YEAR) to INT(YEAR);
  if (k<=0) then put file(sysprint)
      edit('#error: Proc SUMMER: out of range value. ', K)
        (skip(1),A,F(10));
  if A(K)>100 then do;
    WORKL(YEAR)=WORKL(YEAR)+1;
    if HOURL(YEAR)^=-3 & HOUR(K)>0 then HOURL(YEAR)=HOURL(YEAR)+HOUR(K);
    else HOURL(YEAR)=-3;
  end;
  else if A(K)=4 then do;
    if WUMPL(YEAR)^=-3 then WUMPL(YEAR)=WUMPL(YEAR)+1;
  end;
  else if A(K)=2 then do;
    NWMISSL(YEAR)=NWMISSL(YEAR)+1;
    WUMPL(YEAR),WOLFL(YEAR)=-3;
  end;
  else if A(K)=5 | A(K)=7 then do;
    if WOLFL(YEAR)^=-3 then WOLFL(YEAR)=WOLFL(YEAR)+1;
  end;
  else if A(K)=3 then do;
    WORKL(YEAR)=WORKL(YEAR)+1;
```

```
      MISSL(YEAR)=MISSL(YEAR)+1;
      if HOURL(YEAR)^=-3 & HOUR(K)>0 then HOURL(YEAR)=HOURL(YEAR)+HOUR(K);
      else HOURL(YEAR)=-3;
      WUMPL(YEAR),WOLFL(YEAR)=-3;
    end;
    else do;
      MISSL(YEAR)=MISSL(YEAR)+1;
      WOLFL(YEAR),WUMPL(YEAR)=-3;
    end;
  end;
SUMOUT:WBID(YEAR)=INT(YEAR)-LASTINT(YEAR)+1;
dcl PICKJOB float dec(6);
do K=1+(YEAR-1)*52 to YEAR*52;
  if A(K)>100 then do;
    WORKC(YEAR)=WORKC(YEAR)+1;
    if HOURC(YEAR)^=-3 & HOUR(K)>0 then HOURC(YEAR)=HOURC(YEAR)+HOUR(K);
    else HOURC(YEAR)=-3;
    if CAL_YEAR_JOBS(YEAR)=0 then do;
      CAL_YEAR_JOBS(YEAR)=CAL_YEAR_JOBS(YEAR)+1;
      CAL_YEAR_JOB#(YEAR,CAL_YEAR_JOBS(YEAR))=A(K);
    end;
    else do;
      do J=CAL_YEAR_JOBS(YEAR) to 1 by -1;
        if FLOOR(A(K)/100) < YEAR then
          PICKJOB=OLDHIST.OJOB(FLOOR(A(K)/100),MOD(A(K),100),43);
          else PICKJOB=PREVIOUSEMP#(FLOOR(A(K)/100),MOD(A(K),100));
        if A(K)=CAL_YEAR_JOB#(YEAR,J) | PR*100 + PICKJOB
          =CAL_YEAR_JOB#(YEAR,J) then go to NOCOUNT;
      end;
      CAL_YEAR_JOBS(YEAR)=CAL_YEAR_JOBS(YEAR)+1;
      CAL_YEAR_JOB#(YEAR,CAL_YEAR_JOBS(YEAR))=A(K);
    end;
    NOCOUNT:
  end;
  else if A(K)=4 then do;
    if WUMPC(YEAR)^=-3 then WUMPC(YEAR)=WUMPC(YEAR)+1;
  end;
  else if A(K)=2 then do;
    NWMISSC(YEAR)=NWMISSC(YEAR)+1;
    WUMPC(YEAR),WOLFC(YEAR)=-3;
  end;
  else if A(K)=5 | A(K)=7 then do;
    if WOLFC(YEAR)^=-3 then WOLFC(YEAR)=WOLFC(YEAR)+1;
    if A(K)=7 & MILWKSC(YEAR)>=0 then MILWKSC(YEAR)=MILWKSC(YEAR)+1;
  end;
  else if A(K)=3 then do;
    WORKC(YEAR)=WORKC(YEAR)+1;
    MISSC(YEAR)=MISSC(YEAR)+1;
    if HOURC(YEAR)^=-3 & HOUR(K)>0 then HOURC(YEAR)=HOURC(YEAR)+HOUR(K);
    else HOURC(YEAR)=-3;
    WUMPC(YEAR),WOLFC(YEAR)=-3;
  end;
  else do;
    MISSC(YEAR)=MISSC(YEAR)+1;
    WOLFC(YEAR),WUMPC(YEAR)=-3;
  end;
```

```
end;
if MILWKSC(YEAR)=0 then MILWKSC(YEAR)=-4;
CALOUT:
MISSL(YEAR)=FLOOR((MISSL(YEAR)/(INT(YEAR)-LASTINT(YEAR)+1)*100));
NWMISSL(YEAR)=FLOOR((NWMISSL(YEAR)/(INT(YEAR)-LASTINT(YEAR)+1)*100));
MISSC(YEAR)=FLOOR((MISSC(YEAR)/52)*100);
NWMISSC(YEAR)=FLOOR((NWMISSC(YEAR)/52)*100);
end SUMMER;

HRP:PROC(JOBNO) RETURNS(float dec(6));  /* modified 1/30/92 */
dcl (JOBNO) fixed bin(15);
if PAYRATE(NEWYEAR,JOBNO)>0 & TIMERATE(NEWYEAR,JOBNO)>0 then do;
 if PAYRATE(NEWYEAR,JOBNO)=9999995 then RETURN(-4);
  else if TIMERATE(NEWYEAR,JOBNO)=1 then RETURN(PAYRATE(NEWYEAR,JOBNO));
   else if TIMERATE(NEWYEAR,JOBNO)=2 & HOURDAY(NEWYEAR,JOBNO)>0 then
     RETURN((FLOOR(PAYRATE(NEWYEAR,JOBNO)/HOURDAY(NEWYEAR,JOBNO))));
   else if TIMERATE(NEWYEAR,JOBNO)>=3 & TIMERATE(NEWYEAR,JOBNO)<7 &
   HOURSWEEK(NEWYEAR,JOBNO)>0
     then do;
     if TIMERATE(NEWYEAR,JOBNO)=3 then
       RETURN((FLOOR(PAYRATE(NEWYEAR,JOBNO)/HOURSWEEK(NEWYEAR,JOBNO))));
      else if TIMERATE(NEWYEAR,JOBNO)=4 then
       RETURN((FLOOR(PAYRATE(NEWYEAR,JOBNO)/ (HOURSWEEK(NEWYEAR,JOBNO)*2))));
      else if TIMERATE(NEWYEAR,JOBNO)=5 then
       RETURN((FLOOR(PAYRATE(NEWYEAR,JOBNO)/ (HOURSWEEK(NEWYEAR,JOBNO)*4.3))));
      else if TIMERATE(NEWYEAR,JOBNO)=6 then
       RETURN((FLOOR(PAYRATE(NEWYEAR,JOBNO)/ (HOURSWEEK(NEWYEAR,JOBNO)*52))));
   end;
   else RETURN(-4);
end;
else RETURN(-4);
end HRP;

done:
  /***** TEMPORARY DUMP OF NEW VAR 7/22/91 ******/
  /* do i = 1 to newyear-1;
    put file(sysprint) edit('ojobever(',i,')= ',oldhist(i).ojobever)        (skip(1),a,f(2),a,f(10));
  end;
  put file(sysprint) edit('jobever(newyear)= ',jobever(newyear))            (skip(1),a,f(10));    */

  put file(sysprint) edit(' NUMBER OF RECORDS read from WORKTAP =',kount)            (skip(2),A,F(7,0));
  put file(sysprint) edit(' NUMBER OF RECORDS read from VARSNYR =',kountnew)         (skip(2),A,F(7,0));
  put file(sysprint) edit(' NUMBER OF RECORDS read from ADDJOBS =',kountadd)         (skip(2),A,F(7,0));
  put file(sysprint) edit(' NUMBER OF RECORDS read from TABLE  =',TBL_CNT)           (skip(2),A,F(7,0));
  put file(sysprint) edit(' WORK HISTORY RECORDS WRITTEN out   =',kount_out)         (skip(2),A,F(7,0));
  put file(sysprint) edit(' EXTRA WORK RECORDS WRITTEN out     =',kount_XVR)         (skip(2),A,F(7,0));
  put file(sysprint) edit(' # OF CURRENT YEAR ZERO WEIGHT CASES =',WTZERO)          (skip(2),A,F(7,0));
end DMPDATA;
 /** NEWWORK: LRECL = (37008 - 8992) = 28016 **/  /** XVAR = 8996  (740*6*2+4 including ID) **/


/********************************************1992********************************************/

(SUBRG):
DMPDATA: PROC options(MAIN);
default RANGE(I:N) float;
dcl WORKTAP file record input;            /* current work history tape */
```

```
   dcl OLDXVAR file record input;          /* current extra work history variables */
   dcl VARSNYR file record input;          /* new year data-12686 cases, inc. wt */
   dcl IDTABLE file stream input;          /* cross-walk of ID's */
   dcl ADDJOBS file record input;          /* new year add jobs file */
   dcl WTS    file stream input;           /* wts  w/norc ids */
   dcl NEWWORK file record output;         /* writes new updated work history tape */
   dcl NEWXVAR file record output;         /* writes additional work history vars */
   dcl OUTDISK file stream output;         /* writes 92 key vars file on disk */
   dcl (MOD,FLOOR,CEIL,SUBSTR) BUILTIN, sysprint file;
   dcl ENDVARS fixed bin(15);
   dcl (OLDA,ALIM,J,K,KK,JJ,N,I,NUMVAR) fixed bin(15);
   dcl (NA,DK,MAX,MAXYEAR,MAXDUAL,MAXINT,PR,SURVEY_YR,P,LEAP,FILLER,F,
         DUP,DUA,DIV,NEWYEAR,FLAG,#WEEKS,WTID,WTYR)   float dec(6);
   dcl(kount,kountadd,kountnew,kountold,kount_out,kount_XVR) fixed bin(15);
   dcl (kountfix,WTZERO,TBL_CNT) fixed bin(15);
   on endfile(WORKTAP) go to done;
   on endfile(VARSNYR) ENDVARS=1;
   on error go to done;
OLDA=740; ALIM=792; NEWYEAR=14; SURVEY_YR=92;/* note: update this line for arrays limit & year */
dcl 1 VARYR,                              /* vars for new workhistory */
      2 X(1:3055) float dec(6);           /* 3055=total # of vars in 1992 data set on 1992    */
                                          /* tape.  This figure changes every year.       */


   dcl 1 IDTBLE,
       2 TABLE_ID  float dec(6),
       2 NORCIDS   float dec(6);
   dcl 1 STRUCTIN controlled,             /*CURRENT WORKHISTORY record */
       2 INFO(10)       float dec(6),     /* ID and birthdates from 1979 and 1981          */
       2 HISTYRS(NEWYEAR-1),
       5 OWT            float dec(6),
       5 OLASTINT        float dec(6),
       5 OINT           float dec(6),
       5 OINTM           float dec(6),
       5 OINTD          float dec(6),
       5 OINTY          float dec(6),
       5 OJOB(10,47)    float dec(6),      /* 10 possible job, 47 vars for each.  See 1992 work  */
                                           /* history (newyear:newyear) beow.            */
       5 OBTWNJOBS(6,5) float dec(6),      /* 6 possible btwn-jobs gaps. */
                                           /* See between jobs (6) for 1992 vars below.        */
       5 OMILIT(6)      float dec(6),      /* 6 military vars.  See military (6) for 1992 vars below.   */
       5 OCALENDAR(17) float dec(6),       /* 17 calendar year vars. See */
                                           /* calendar year_sum for 1992 vars below.            */
       5 OLASTSUM(8)  float dec(6),        /* 8 vars from last int. See */
                                           /* lastint_sum for 1992 vars below.           */
       5 OJOBEVER       float dec(6);      /* number of jobs ever reprtd by R at int date. See 1992  */
dcl 1 XSTRUCT controlled,
     2 PUBLICID        fixed bin(31,0),
     2 ARRAY1(0:OLDA)    fixed bin(15,0),
     2 ARRAY2(0:OLDA)    fixed bin(15,0),
     2 ARRAY3(0:OLDA,4)   fixed bin(15,0);
/* Above creates A, hour and dual job  array structures.  Starting in 1988, the dualjob array was no longer
          concatenated on the public tape. A separate variable is left for each week and for each of 4 possible
          jobs in each week. Also, the arrays no longer fit on the same tape as the job-specific variables. They are
          combined at a later stage in the  public tape productn. */
dcl 1 XVARS controlled,
     2 PUBLICID        fixed bin(31,0),
```

```
    2 A(0:ALIM)        fixed bin(15,0),
    2 HOUR(0:ALIM)      fixed bin(15,0),
    2 DUALJOB(0:ALIM,4)  fixed bin(15,0);
dcl CPS_HOURLYWAGE(NEWYEAR) float dec(6) controlled;
 dcl 1 VARIABLES controlled,
    2 ID            float dec(6),              /* ID number of respondent,X(1)*/
    2 sample_ID      float dec(6),             /* sample type, X(1561) */
    2 SEX          float dec(6),
    2 RACE          float dec(6),
    2 BIRTHM_79      float dec(6),
    2 BIRTHD_79      float dec(6),
    2 BIRTHY_79      float dec(6),
    2 BIRTHM_81      float dec(6),
    2 BIRTHD_81      float dec(6),
    2 BIRTHY_81      float dec(6),
    2 OLDHIST(NEWYEAR-1),
     5 OWT          float dec(6),
     5 OLASTINT      float dec(6),
     5 OINT          float dec(6),
     5 OINTM          float dec(6),
     5 OINTD          float dec(6),
     5 OINTY          float dec(6),
     5 OJOB(10,47)    float dec(6),
     5 OBTWNJOBS(6,5) float dec(6),
     5 OMILIT(6)      float dec(6),
     5 OCALENDAR(17)  float dec(6),
     5 OLASTSUM(8)    float dec(6),
     5 OJOBEVER      float dec(6),
    2 WORK_HISTORY(NEWYEAR:NEWYEAR),
     5 WEIGHT,                       /* sampling weight   */
     5 LASTINT,                      /* week number of last interview */
     5 INT,                          /* week number of current interview */
     5 INTM,                         /* month of the interview */
     5 INTD,                         /* day of the interview */
     5 INTY,                         /* year of the interview */
     5 JOB(10),                      /* 10 possible jobs for each interview */
      10 START,                      /* starting week of the job */
      10 STARTM,                     /* starting month of the job */
      10 STARTD,                     /* starting day of the job */
      10 STARTY,                     /* starting year of the job */
      10 STOP,                       /* stopping week of the job */
      10 STOPM,                      /* stopping month of the job */
      10 STOPD,                      /* stopping day of the job */
      10 STOPY,                      /* stopping year of the job */
      10 PAST,                       /* has R worked at job before last interview */
      10 CURRENT,                    /* working at job at interview date */
      10 WHYLEFT,                    /* reason left job if not currently working */
      10 CPSJOB,                     /* is this job same as the cps job */
      10 HOURSWEEK,                  /* usual hours per week at this job */
      10 OCCUPATION,                 /* usual occupation at this job */
      10 INDUSTRY,                   /* usual industry at this job */
      10 CLASSWORKER,                /* class of worker at this job */
      10 HOURDAY,                    /* usual hours per day worked at this job */
      10 PAYRATE,                    /* usual wage or salary at this job */
      10 TIMERATE,                   /* time unit to interpret payrate */
      10 HOURLYWAGE,                 /* usual wage converted to hourly wage */
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    10 UNION,                          /* wages set by collective bargaining */
    10 GOVTJOB,                        /* is this job government-sponsored */
    10 WEEKSNOTWORKED,                 /* any weeks not working at this job */
    10 PERIOD_IN_JOB(4),               /* information on each period not working */
      15 PERIODSTART,                  /* starting wk number of period not working */
      15 PERIODSTOP,                   /* stopping wk number of period not working */
      15 REASON,                       /* reason not working for this period */
      15 ALL,                          /* how much time unemployed in this period */
      15 LOOK,                         /* number of weeks unemployed in this period */
    10 PREVIOUSEMP#,                   /* job number of employer from last int */
    10 PRETEN,                         /* months worked for employer before lastint */
    10 TENURE,                         /* total weeks tenure as of interview date */
    10 NUMBER,                         /* job number which is loaded into 'A' array */
  5 BETWEEN_JOBS(6),                   /* information about periods not working between jobs and military
          service */
    10 BSTART,                         /* week started this period not working */
    10 BSTOP,                          /* week stopped this period not working */
    10 BALL,                           /* how much of period not worked unemployed */
    10 BLOOK,                          /* number of weeks unemployed in this period */
    10 BREASON,                        /* reason not looking for work this period */
  5 MILITARY,                          /* information about active military service */
    10 MSTART1,                        /* starting week of first period of service */
    10 MSTART2,                        /* starting week of second period of service */
    10 MSTOP1,                         /* stopping week of first period of service */
    10 MSTOP2,                         /* stopping week of second period of service */
    10 MILWKSL,                        /* weeks active military service as of int */
    10 MILWKSC,                        /* weeks active military service in the calendar year */
  5 CALENDAR_YEAR_SUM,                 /* key variables for the calendar year */
    10 WORKC,                          /* weeks worked in the calendar year */
    10 HOURC,                          /* hours worked in the calendar year */
    10 WUMPC,                          /* weeks unemployed in the calendar year */
    10 WOLFC,                          /* weeks out of labor force in calendar year */
    10 CAL_YEAR_JOBS,                  /* number of jobs in the calendar year */
    10 CAL_YEAR_JOB#(10),              /* job numbers in the calendar year */
    10 MISSC,                          /* % of weeks unaccounted for in year */
    10 NWMISSC,                        /* % weeks not employed that can't be split */
  5 LASTINT_SUM,                       /* key variables calculated since last int */
    10 LASTINT_JOBS,                   /* number of jobs since last interview */
    10 WORKL,                          /* number of weeks worked since last int */
    10 HOURL,                          /* number of hours worked since last int */
    10 WUMPL,                          /* number of weeks unemployed since last int */
    10 WOLFL,                          /* weeks out of labor force since last int */
    10 WBID,                           /* number of weeks since last int */
    10 MISSL,                          /* % of weeks unaccounted for since last int */
    10 NWMISSL,                        /* % weeks not employed that can't be split */
    10 JOBEVER;                        /* number of different jobs ever held */

NA=-4; DK=-3; X(1)=0;  TABLE_ID=0; ENDVARS=0; /* eof flag for varsnyr */
kount=0; kountadd=0; kountnew=0; kountold=0; kount_out=0; kount_XVR=0; kountfix=0; WTZERO=0;
        MAX=0; MAXYEAR=100; MAXDUAL=0; MAXINT=0;
 allocate VARIABLES, STRUCTIN, XSTRUCT, XVARS, CPS_HOURLYWAGE;


1READ1:  read file (WORKTAP) into (STRUCTIN);
      read file (OLDXVAR) into (XSTRUCT);
  kount=kount+1;
  ID=INFO(1);
```

```
  XVARS.PUBLICID = ID;      /*** PUBLIC ID FOR XVAR ***/
  SAMPLE_ID=INFO(2);
  SEX=INFO(3);
  RACE=INFO(4);
  BIRTHM_79=INFO(5);          BIRTHD_79=INFO(6);          BIRTHY_79=INFO(7);
  BIRTHM_81=INFO(8);          BIRTHD_81=INFO(9);          BIRTHY_81=INFO(10);
  A=0; HOUR=0; DUALJOB=0;

  do J=0 to OLDA;  /* copy old array info into the current array struct */
    A(J)=ARRAY1(J); HOUR(J)=ARRAY2(J);
    do K = 1 to 4;
      DUALJOB(J,K) = ARRAY3(J,K);
    end;
  end;

  OLDHIST=HISTYRS, by NAME;
 /* hand edits for 1992 only - correct past errors */
 /* correct 1990 cps job info */
 if ID=3402 then OLDHIST.OJOB(12,1,12)=1;  /* ojob 12,1,12 cps90 j1*/
 if ID=4312 then do;
   oldhist.ojob(12,1,12)=1;
   oldhist.ojob(12,1,14)=694;              /* ojob 12,1,14 occ90 j1*/
   oldhist.ojob(12,1,15)=628;              /* ojob 12,1,15 ind90 j1*/
   oldhist.ojob(12,1,16)=1;                /* ojob 12,1,16 cow90 j1*/
   end;
 if ID=4841 then oldhist.ojob(12,1,12)=1;
 if ID=5855 then do;
   oldhist.ojob(12,1,12)=1;         oldhist.ojob(12,1,14)=-3;
   oldhist.ojob(12,1,15)=-3;        oldhist.ojob(12,1,16)=-3;
   end;
 if ID=5993 then oldhist.ojob(12,1,12)=1;
 if ID=6111 then do;
   oldhist.ojob(12,1,12)=1;         oldhist.ojob(12,1,14)=-3;
   oldhist.ojob(12,1,15)=-3;        oldhist.ojob(12,1,16)=-3;
   end;
 if ID=6667 then oldhist.ojob(12,1,12)=1;
 if ID=6678 then oldhist.ojob(12,1,12)=1;
 if ID=8415 then oldhist.ojob(12,1,12)=1;
 if ID=8767 then do;
   oldhist.ojob(12,1,12)=1;         oldhist.ojob(12,1,14)=-3;
   oldhist.ojob(12,1,15)=-3;        oldhist.ojob(12,1,16)=-3;
   end;
 if ID=9287 then oldhist.ojob(12,1,12)=1;
 if ID=9461 then do;
   oldhist.ojob(12,1,12)=1;         oldhist.ojob(12,1,14)=-3;
   oldhist.ojob(12,1,15)=-3;        oldhist.ojob(12,1,16)=-3;
   end;
 if ID=9899 then do;
   oldhist.ojob(12,1,12)=1;         oldhist.ojob(12,1,14)=-3;
   oldhist.ojob(12,1,15)=-3;        oldhist.ojob(12,1,16)=-3;
   end;
 if ID=10465 then do;
   oldhist.ojob(12,1,12)=1;         oldhist.ojob(12,1,14)=-3;
   oldhist.ojob(12,1,15)=-3;        oldhist.ojob(12,1,16)=-3;
   end;
 if ID=12001 then do;
```

```
   oldhist.ojob(12,1,12)=1;        oldhist.ojob(12,1,14)=-3;
   oldhist.ojob(12,1,15)=-3;       oldhist.ojob(12,1,16)=-3;
   end;
if ID=12539 then do;
   oldhist.ojob(12,1,12)=1;        oldhist.ojob(12,1,14)=-3;
   oldhist.ojob(12,1,15)=-3;       oldhist.ojob(12,1,16)=-3;
   end;


/* correct bi-monthly hourly pay rates from 1990 and 1991 */
if ID=12519 then OLDHIST.OJOB(12,1,20)=825;    /* OJOB 12,1,20 HRW90 J1*/
if ID=591 then OLDHIST.OJOB(12,1,20)=791;      if ID=817 then OLDHIST.OJOB(12,1,20)=25720;
if ID=1122 then OLDHIST.OJOB(12,1,20)=1543;    if ID=1213 then OLDHIST.OJOB(12,1,20)=556;
if ID=1220 then OLDHIST.OJOB(12,1,20)=174;      if ID=1758 then OLDHIST.OJOB(12,1,20)=641;
if ID=1759 then OLDHIST.OJOB(12,1,20)=398;     if ID=1935 then OLDHIST.OJOB(12,1,20)=376;
if ID=2607 then OLDHIST.OJOB(12,1,20)=1093;    if ID=2670 then OLDHIST.OJOB(12,1,20)=562;
if ID=3124 then OLDHIST.OJOB(12,1,20)=648;     if ID=3892 then OLDHIST.OJOB(12,1,20)=1066;
if ID=4919 then OLDHIST.OJOB(12,1,20)=671;     if ID=4946 then OLDHIST.OJOB(12,1,20)=617;
if ID=5042 then OLDHIST.OJOB(12,1,20)=441;     if ID=5155 then OLDHIST.OJOB(12,1,20)=495;
if ID=5222 then OLDHIST.OJOB(12,1,20)=589;     if ID=5426 then OLDHIST.OJOB(12,1,20)=903;
if ID=5618 then OLDHIST.OJOB(12,1,20)=781;     if ID=5762 then OLDHIST.OJOB(12,1,20)=476;
if ID=5983 then OLDHIST.OJOB(12,1,20)=1399;    if ID=5984 then OLDHIST.OJOB(12,1,20)=625;
if ID=7032 then OLDHIST.OJOB(12,1,20)=733;     if ID=7102 then OLDHIST.OJOB(12,1,20)=738;
if ID=7453 then OLDHIST.OJOB(12,1,20)=844;     if ID=7524 then OLDHIST.OJOB(12,1,20)=1505;
if ID=8287 then OLDHIST.OJOB(12,1,20)=475;     if ID=8886 then OLDHIST.OJOB(12,1,20)=984;
if ID=9634 then OLDHIST.OJOB(12,1,20)=949;     if ID=9790 then OLDHIST.OJOB(12,1,20)=1389;
if ID=10040 then OLDHIST.OJOB(12,1,20)=652;    if ID=10093 then OLDHIST.OJOB(12,1,20)=625;
if ID=10411 then OLDHIST.OJOB(12,1,20)=610;    if ID=10453 then OLDHIST.OJOB(12,1,20)=540;
if ID=10474 then OLDHIST.OJOB(12,1,20)=1071;   if ID=10745 then OLDHIST.OJOB(12,1,20)=1620;
if ID=10893 then OLDHIST.OJOB(12,1,20)=556;    if ID=11864 then OLDHIST.OJOB(12,1,20)=590;
if ID=12028 then OLDHIST.OJOB(12,1,20)=648;
if ID=3028 then OLDHIST.OJOB(12,2,20)=694;     /* OJOB 12,1,67 HRW90 J2*/
if ID=3513 then OLDHIST.OJOB(12,2,20)=434;     if ID=7293 then OLDHIST.OJOB(12,2,20)=779;
if ID=7478 then OLDHIST.OJOB(12,2,20)=357;     if ID=7960 then OLDHIST.OJOB(12,2,20)=579;
if ID=9307 then OLDHIST.OJOB(12,2,20)=463;     if ID=9525 then OLDHIST.OJOB(12,2,20)=625;
if ID=10040 then OLDHIST.OJOB(12,2,20)=347;    if ID=11818 then OLDHIST.OJOB(12,2,20)=347;
if ID=12128 then OLDHIST.OJOB(12,2,20)=553; /* OJOB 12,2,20 HRW91 J1*/
if ID=368 then OLDHIST.OJOB(13,1,20)=713;   /* OJOB 13,1,20 HRW91 J1*/
if ID=591 then OLDHIST.OJOB(13,1,20)=758;      if ID=1220 then OLDHIST.OJOB(13,1,20)=554;
if ID=1305 then OLDHIST.OJOB(13,1,20)=609;     if ID=1640 then OLDHIST.OJOB(13,1,20)=1195;
if ID=1713 then OLDHIST.OJOB(13,1,20)=926;     if ID=1728 then OLDHIST.OJOB(13,1,20)=2546;
if ID=2164 then OLDHIST.OJOB(13,1,20)=1371;    if ID=2800 then OLDHIST.OJOB(13,1,20)=1476;
if ID=2801 then OLDHIST.OJOB(13,1,20)=2199;    if ID=3342 then OLDHIST.OJOB(13,1,20)=13;
if ID=3354 then OLDHIST.OJOB(13,1,20)=526;     if ID=4002 then OLDHIST.OJOB(13,1,20)=121;
if ID=4179 then OLDHIST.OJOB(13,1,20)=1389;    if ID=4181 then OLDHIST.OJOB(13,1,20)=850;
if ID=4538 then OLDHIST.OJOB(13,1,20)=915;     if ID=4604 then OLDHIST.OJOB(13,1,20)=668;
if ID=4977 then OLDHIST.OJOB(13,1,20)=370;     if ID=5430 then OLDHIST.OJOB(13,1,20)=845;
if ID=5652 then OLDHIST.OJOB(13,1,20)=579;     if ID=5767 then OLDHIST.OJOB(13,1,20)=718;
if ID=5864 then OLDHIST.OJOB(13,1,20)=1088;    if ID=6455 then OLDHIST.OJOB(13,1,20)=397;
if ID=7102 then OLDHIST.OJOB(13,1,20)=729;     if ID=7216 then OLDHIST.OJOB(13,1,20)=618;
if ID=7229 then OLDHIST.OJOB(13,1,20)=1615;    if ID=7565 then OLDHIST.OJOB(13,1,20)=346;
if ID=7882 then OLDHIST.OJOB(13,1,20)=992;     if ID=8138 then OLDHIST.OJOB(13,1,20)=1236;
if ID=9117 then OLDHIST.OJOB(13,1,20)=1215;    if ID=10535 then OLDHIST.OJOB(13,1,20)=932;
if ID=12141 then OLDHIST.OJOB(13,1,20)=694;
if ID=884 then OLDHIST.OJOB(13,2,20)=957;   /* OJOB 13,2,67 HRW91 J2*/
if ID=5984 then OLDHIST.OJOB(13,2,20)=544; if ID=8351 then OLDHIST.OJOB(13,2,20)=718;
```

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/* correct 1990 interview date for #3617 */
if ID=3617 then do;
  OLDHIST.OINT(12)=659;      OLDHIST.OINTM(12)=8;
  OLDHIST.OINTD(12)=14;      OLDHIST.OLASTSUM(12,8)=58;
  end;
 /* end hand edits for 1992 only - correct past errors */

if ( (TABLE_ID < ID) & (ENDVARS=0)) then do;
  do WHILE ( (TABLE_ID<ID) & (ENDVARS=0) );
    get file (IDTABLE) edit(TABLE_ID,NORCIDS) (COL(5),F(5),COL(12),F(7));
    TBL_CNT=TBL_CNT+1;
  end;
  if ( (X(1) < NORCIDS) & (ENDVARS=0) ) then do;
   read file (VARSNYR) into (VARYR);
   get skip file(WTS) edit (WTID,WTYR) (2 F(8));
   if X(1) ^= WTID then put skip edit ('error on WT ID',X(1),WTID) (A,F(6),F(6));
   kountnew=kountnew+1;
  end;
end;

if (NORCIDS^=X(1)) then go to SKIPME;
NORCID  = X(  1);   /* case identification number            */
Q9937   = X( 16);   /* military status at last interview       */
Q0855   = X( 300);  /* R serving in military at last interview  */
Q0868   = X( 307);  /* is R currently in the active forces     */
Q0928   = X( 321);  /* when sworn in,did R enter active forces?  */
Q0870   = X( 308);  /* month R separated from armed srvc branch  */
Q0872   = X( 309);  /* year R separated from armed srvcs branch  */
Q0909   = X( 311);  /* day of separation                  */
Q0916   = X( 315);  /* branch R sworn into                 */
Q0922   = X( 318);  /* R currently serving most recent branch    */
Q0924   = X( 319);  /* month R entered most recent branch       */
Q0926   = X( 320);  /* year R entered most recent branch        */
Q0930   = X( 322);  /* day R entered active forces          */
Q0932   = X( 323);  /* did R serve any time on active duty?     */
Q0934   = X( 324);  /* mo_ entered active-not currently serving  */
Q0936   = X( 325);  /* day entered active-not currently serving  */
Q0938   = X( 326);  /* yr R entered active-not currntly serving  */
Q0942   = X( 328);  /* month separated from military          */
Q0944   = X( 329);  /* day R separated from military          */
Q0946   = X( 330);  /* year R separated from the military       */
Q1245   = X( 413);  /* type of industry worked for           */
Q1248   = X( 414);  /* type of work doing last week           */
Q1259   = X( 418);  /* category of industry R worked for        */
Q1265   = X( 421);  /* number of hours per week usually work     */
Q1271   = X( 424);  /* num hrs/wk worked at job-home hrs incl     */
Q1447   = X(1079);  /* month began most recnt non-emplymnt per_   */
Q1449   = X(1080);  /* day began most recent non-employmnt per_   */
Q1451   = X(1081);  /* year began most recent non-emplymnt per_   */
Q1453   = X(1082);  /* month ended most recent non-emplymnt per_  */
Q1455   = X(1083);  /* day ended most recent non-employmnt per_   */
Q1457   = X(1084);  /* year ended most recent non-emplymnt per_   */
Q1459   = X(1085);  /* period 1:# weeks looking for work,layoff   */
Q1470   = X(1089);  /* period1 number of weeks looking,layoff     */
Q1476   = X(1091);  /* period1 reason not looking             */
Q1509   = X(1093);  /* month began 2nd recnt non-emplymnt per_    */
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```
Q1511   = X(1094);   /* day began 2nd recent non-employmnt per_    */
Q1513   = X(1095);   /* year R began 2nd recnt non-emplymnt per_   */
Q1515   = X(1096);   /* month ended 2nd recent non-emplymnt per_   */
Q1517   = X(1097);   /* day ended 2nd recent non-emplymnt per_     */
Q1519   = X(1098);   /* year ended 2nd recent non-emplymnt per_    */
Q1521   = X(1099);   /* period 2:# weeks looking for work,layoff   */
Q1532   = X(1103);   /* period2 number of weeks looking,layoff     */
Q1538   = X(1105);   /* period2 reason not looking            */
Q1542   = X(1107);   /* month began 3rd recent non-emplymnt per_   */
Q1544   = X(1108);   /* day began 3rd recent non-employment per_   */
Q1546   = X(1109);   /* year began 3rd recent non-employmnt per_   */
Q1548   = X(1110);   /* month ended 3rd recent non-emplymnt per_   */
Q1550   = X(1111);   /* day ended 3rd recent non-employment per_   */
Q1552   = X(1112);   /* year ended 3rd recent non-emplymnt per_    */
Q1554   = X(1113);   /* period 3:# weeks looking for work,layoff   */
Q1565   = X(1117);   /* period3 number of weeks looking,layoff     */
Q1571   = X(1119);   /* period3 reason not looking             */
Q1609   = X(1121);   /* month began 4th recent non-emplymnt per_   */
Q1611   = X(1122);   /* day began 4th recent non-employment per_   */
Q1613   = X(1123);   /* year began 4th recent non-emplymnt per_    */
Q1615   = X(1124);   /* month ended 4th recent non-emplymnt per_   */
Q1617   = X(1125);   /* day ended 4th recent non-employment per_   */
Q1619   = X(1126);   /* year ended 4th recent non-emplymnt per_    */
Q1621   = X(1127);   /* period 4:# weeks looking for work,layoff   */
Q1632   = X(1131);   /* period4 number of weeks looking,layoff     */
Q1638   = X(1133);   /* period4 reason not looking             */
Q7119   = X(3009);   /* month of interview                 */
Q7121   = X(3010);   /* day of interview                   */
QB149   = X( 480);   /* employer # from item  9            */
QB161   = X( 486);   /* employer # from item  10           */
QB169   = X( 490);   /* code for date in question 3 (esb_4)     */
QB173   = X( 492);   /* tot mnths wrking before date last intrvw   */
QB175   = X( 493);   /* month last interview               */
QB177   = X( 494);   /* day   last interview               */
QB179   = X( 495);   /* year  last interview               */
QB209   = X( 496);   /* currently working for this employer      */
QB211   = X( 497);   /* month R stopped working for employer      */
QB213   = X( 498);   /* day R stopped working for employer      */
QB215   = X( 499);   /* year R stopped working for employer      */
QB217   = X( 500);   /* reason R happened to leave this job     */
QB223   = X( 503);   /* periods of week/more not working       */
QB227   = X( 505);   /* begin month gap within job period 1     */
QB229   = X( 506);   /* begin day gap within job period 1      */
QB231   = X( 507);   /* begin year gap within job period 1      */
QB233   = X( 508);   /* ending month gap within job period 1     */
QB235   = X( 509);   /* ending day gap within job period 1     */
QB237   = X( 510);   /* ending year gap within job period 1     */
QB239   = X( 511);   /* reason not working                */
QB241   = X( 512);   /* R looking for wrk some,none,or all weeks   */
QB252   = X( 516);   /* # of wks looking for work or on layoff    */
QB262   = X( 520);   /* begin month gap within job period 2     */
QB264   = X( 521);   /* begin day gap within job period 2      */
QB266   = X( 522);   /* begin year gap within job period 2      */
QB268   = X( 523);   /* ending month gap within job period 2     */
QB270   = X( 524);   /* ending day gap within job period 2     */
QB272   = X( 525);   /* ending year gap within job period 2     */
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QB274  = X( 526);  /* reason not working                    */
QB309  = X( 527);  /* R looking for wrk some,none,or all weeks  */
QB320  = X( 531);  /* # of wks looking or on layoff period 2    */
QB330  = X( 535);  /* begin month gap within job period 3       */
QB332  = X( 536);  /* begin day gap within job period 3         */
QB334  = X( 537);  /* begin year gap within job period 3        */
QB336  = X( 538);  /* ending month gap within job period 3      */
QB338  = X( 539);  /* ending day gap within job period 3        */
QB340  = X( 540);  /* ending year gap within job period 3       */
QB342  = X( 541);  /* reason not working                    */
QB344  = X( 542);  /* R looking for wrk some,none,or all weeks  */
QB355  = X( 546);  /* # of wks looking or on layoff period 3    */
QB433  = X( 565);  /* nmbr of hours/day R worked at this job    */
QB435  = X( 566);  /* is this employer recorded in Q_24 sec 5   */
QB437  = X( 567);  /* number of hrs/week R worked at this job   */
QB443  = X( 570);  /* num hrs/wk worked at job-home hrs incl    */
QB445  = X( 571);  /* R wk 10 hr or more a wk?              */
QB449  = X( 573);  /* R's occupation code                   */
QB452  = X( 574);  /* R's industry code                     */
QB455  = X( 575);  /* R's employment category              */
QB461  = X( 578);  /* amt R was paid including tips,bonus,etc_  */
QB467  = X( 579);  /* amount paid - cents, job #1           */
QB469  = X( 580);  /* pay period for R on job              */
QB527  = X( 592);  /* R's wages set by collective bargaining    */
QB529  = X( 593);  /* is/was R a member of a union/emp assctn   */
QC149  = X( 600);  /* employer # from item  9              */
QC161  = X( 606);  /* employer # from item  10             */
QC169  = X( 610);  /* code for date in question 3 (esc_4)       */
QC173  = X( 612);  /* tot mnths wrking before date last intrvw  */
QC175  = X( 613);  /* month last interview                 */
QC177  = X( 614);  /* day   last interview                 */
QC179  = X( 615);  /* year  last interview                 */
QC209  = X( 616);  /* currently working for this employer       */
QC211  = X( 617);  /* month R stopped working for employer      */
QC213  = X( 618);  /* day R stopped working for employer        */
QC215  = X( 619);  /* year R stopped working for employer       */
QC217  = X( 620);  /* reason R happened to leave this job       */
QC223  = X( 623);  /* periods of week/more not working          */
QC227  = X( 625);  /* begin month gap within job period 1       */
QC229  = X( 626);  /* begin day gap within job period 1         */
QC231  = X( 627);  /* begin year gap within job period 1        */
QC233  = X( 628);  /* ending month gap within job period 1      */
QC235  = X( 629);  /* ending day gap within job period 1        */
QC237  = X( 630);  /* ending year gap within job period 1       */
QC239  = X( 631);  /* reason not working                    */
QC241  = X( 632);  /* R looking for wrk some,none,or all weeks  */
QC252  = X( 636);  /* # of wks looking for work or on layoff    */
QC262  = X( 640);  /* begin month gap within job period 2       */
QC264  = X( 641);  /* begin day gap within job period 2         */
QC266  = X( 642);  /* begin year gap within job period 2        */
QC268  = X( 643);  /* ending month gap within job period 2      */
QC270  = X( 644);  /* ending day gap within job period 2        */
QC272  = X( 645);  /* ending year gap within job period 2       */
QC274  = X( 646);  /* reason not working                    */
QC309  = X( 647);  /* R looking for wrk some,none,or all weeks  */
QC320  = X( 651);  /* # of wks looking or on layoff period 2    */
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QC330  = X( 655);  /* begin month gap within job period 3    */
QC332  = X( 656);  /* begin day gap within job period 3      */
QC334  = X( 657);  /* begin year gap within job period 3     */
QC336  = X( 658);  /* ending month gap within job period 3    */
QC338  = X( 659);  /* ending day gap within job period 3     */
QC340  = X( 660);  /* ending year gap within job period 3    */
QC342  = X( 661);  /* reason not working                 */
QC344  = X( 662);  /* R looking for wrk some,none,or all weeks  */
QC355  = X( 666);  /* # of wks looking or on layoff period 3    */
QC433  = X( 685);  /* nmbr of hours/day R worked at this job   */
QC435  = X( 686);  /* is this employer recorded in Q_24 sec 5   */
QC437  = X( 687);  /* number of hrs/week R worked at this job   */
QC443  = X( 690);  /* num hrs/wk worked at job-home hrs incl    */
QC445  = X( 691);  /* R wk 10 hr or more a wk?            */
QC449  = X( 693);  /* R's occupation code              */
QC452  = X( 694);  /* R's industry code               */
QC455  = X( 695);  /* R's employment category            */
QC461  = X( 698);  /* amt R was paid including tips,bonus,etc_  */
QC467  = X( 699);  /* amount paid - cents, job #2         */
QC469  = X( 700);  /* pay period for R on job            */
QC527  = X( 712);  /* R's wages set by collective bargaining    */
QC529  = X( 713);  /* is/was R a member of a union/emp assctn    */
QD149  = X( 720);  /* employer # from item  9            */
QD161  = X( 726);  /* employer # from item  10           */
QD169  = X( 730);  /* code for date in question 3 (esd_4)     */
QD173  = X( 732);  /* tot mnths wrking before date last intrvw   */
QD175  = X( 733);  /* month last interview             */
QD177  = X( 734);  /* day   last interview              */
QD179  = X( 735);  /* year  last interview              */
QD209  = X( 736);  /* currently working for this employer     */
QD211  = X( 737);  /* month R stopped working for employer     */
QD213  = X( 738);  /* day R stopped working for employer      */
QD215  = X( 739);  /* year R stopped working for employer      */
QD217  = X( 740);  /* reason R happened to leave this job     */
QD223  = X( 743);  /* periods of week/more not working       */
QD227  = X( 745);  /* begin month gap within job period 1     */
QD229  = X( 746);  /* begin day gap within job period 1      */
QD231  = X( 747);  /* begin year gap within job period 1     */
QD233  = X( 748);  /* ending month gap within job period 1     */
QD235  = X( 749);  /* ending day gap within job period 1     */
QD237  = X( 750);  /* ending year gap within job period 1     */
QD239  = X( 751);  /* reason not working               */
QD241  = X( 752);  /* R looking for wrk some,none,or all weeks   */
QD252  = X( 756);  /* # of wks looking for work or on layoff   */
QD262  = X( 760);  /* begin month gap within job period 2     */
QD264  = X( 761);  /* begin day gap within job period 2      */
QD266  = X( 762);  /* begin year gap within job period 2     */
QD268  = X( 763);  /* ending month gap within job period 2     */
QD270  = X( 764);  /* ending day gap within job period 2     */
QD272  = X( 765);  /* ending year gap within job period 2     */
QD274  = X( 766);  /* reason not working               */
QD309  = X( 767);  /* R looking for wrk some,none,or all weeks  */
QD320  = X( 771);  /* # of wks looking or on layoff period 2    */
QD330  = X( 775);  /* begin month gap within job period 3     */
QD332  = X( 776);  /* begin day gap within job period 3      */
QD334  = X( 777);  /* begin year gap within job period 3     */
```

```
QD336  = X( 778);   /* ending month gap within job period 3      */
QD338  = X( 779);   /* ending day gap within job period 3        */
QD340  = X( 780);   /* ending year gap within job period 3       */
QD342  = X( 781);   /* reason not working                        */
QD344  = X( 782);   /* R looking for wrk some,none,or all weeks   */
QD355  = X( 786);   /* # of wks looking or on layoff period 3     */
QD433  = X( 805);   /* nmbr of hours/day R worked at this job     */
QD435  = X( 806);   /* is this employer recorded in Q_24 sec 5    */
QD437  = X( 807);   /* number of hrs/week R worked at this job    */
QD443  = X( 810);   /* num hrs/wk worked at job-home hrs incl     */
QD445  = X( 811);   /* R wk 10 hr or more a wk?                   */
QD449  = X( 813);   /* R's occupation code                       */
QD452  = X( 814);   /* R's industry code                         */
QD455  = X( 815);   /* R's employment category                   */
QD461  = X( 818);   /* amt R was paid including tips,bonus,etc_   */
QD467  = X( 819);   /* amount paid - cents, job #3               */
QD469  = X( 820);   /* pay period for R on job                   */
QD527  = X( 832);   /* R's wages set by collective bargaining     */
QD529  = X( 833);   /* is/was R a member of a union/emp assctn    */
QE149  = X( 840);   /* employer # from item  9                   */
QE161  = X( 846);   /* employer # from item  10                  */
QE169  = X( 850);   /* code for date in question 3 (ese_4)        */
QE173  = X( 852);   /* tot mnths wrking before date last intrvw   */
QE175  = X( 853);   /* month last interview                      */
QE177  = X( 854);   /* day   last interview                      */
QE179  = X( 855);   /* year  last interview                      */
QE209  = X( 856);   /* currently working for this employer        */
QE211  = X( 857);   /* month R stopped working for employer       */
QE213  = X( 858);   /* day R stopped working for employer         */
QE215  = X( 859);   /* year R stopped working for employer        */
QE217  = X( 860);   /* reason R happened to leave this job        */
QE223  = X( 863);   /* periods of week/more not working           */
QE227  = X( 865);   /* begin month gap within job period 1        */
QE229  = X( 866);   /* begin day gap within job period 1          */
QE231  = X( 867);   /* begin year gap within job period 1         */
QE233  = X( 868);   /* ending month gap within job period 1       */
QE235  = X( 869);   /* ending day gap within job period 1         */
QE237  = X( 870);   /* ending year gap within job period 1        */
QE239  = X( 871);   /* reason not working                        */
QE241  = X( 872);   /* R looking for wrk some,none,or all weeks   */
QE252  = X( 876);   /* # of wks looking for work or on layoff     */
QE262  = X( 880);   /* begin month gap within job period 2        */
QE264  = X( 881);   /* begin day gap within job period 2          */
QE266  = X( 882);   /* begin year gap within job period 2         */
QE268  = X( 883);   /* ending month gap within job period 2       */
QE270  = X( 884);   /* ending day gap within job period 2         */
QE272  = X( 885);   /* ending year gap within job period 2        */
QE274  = X( 886);   /* reason not working                        */
QE309  = X( 887);   /* R looking for wrk some,none,or all weeks   */
QE320  = X( 891);   /* # of wks looking or on layoff period 2     */
QE330  = X( 895);   /* begin month gap within job period 3        */
QE332  = X( 896);   /* begin day gap within job period 3          */
QE334  = X( 897);   /* begin year gap within job period 3         */
QE336  = X( 898);   /* ending month gap within job period 3       */
QE338  = X( 899);   /* ending day gap within job period 3         */
QE340  = X( 900);   /* ending year gap within job period 3        */
```

```
QE342   = X( 901);   /* reason not working                      */
QE344   = X( 902);   /* R looking for wrk some,none,or all weeks   */
QE355   = X( 906);   /* # of wks looking or on layoff period 3     */
QE433   = X( 925);   /* nmbr of hours/day R worked at this job     */
QE435   = X( 926);   /* is this employer recorded in Q_24 sec 5    */
QE437   = X( 927);   /* number of hrs/week R worked at this job    */
QE443   = X( 930);   /* num hrs/wk worked at job-home hrs incl     */
QE445   = X( 931);   /* R wk 10 hr or more a wk?                 */
QE449   = X( 933);   /* R's occupation code                      */
QE452   = X( 934);   /* R's industry code                        */
QE455   = X( 935);   /* R's employment category                  */
QE461   = X( 938);   /* amt R was paid including tips,bonus,etc_   */
QE467   = X( 939);   /* amount paid - cents, job #4              */
QE469   = X( 940);   /* pay period for R on job                  */
QE527   = X( 952);   /* R's wages set by collective bargaining     */
QE529   = X( 953);   /* is/was R a member of a union/emp assctn    */
QF149   = X( 960);   /* employer # from item  9                  */
QF161   = X( 966);   /* employer # from item  10                 */
QF169   = X( 970);   /* code for date in question 3 (esf_4)       */
QF173   = X( 972);   /* tot mnths wrking before date last intrvw   */
QF175   = X( 973);   /* month last interview                     */
QF177   = X( 974);   /* day   last interview                     */
QF179   = X( 975);   /* year  last interview                     */
QF209   = X( 976);   /* currently working for this employer       */
QF211   = X( 977);   /* month R stopped working for employer      */
QF213   = X( 978);   /* day R stopped working for employer        */
QF215   = X( 979);   /* year R stopped working for employer       */
QF217   = X( 980);   /* reason R happened to leave this job       */
QF223   = X( 983);   /* periods of week/more not working          */
QF227   = X( 985);   /* begin month gap within job period 1       */
QF229   = X( 986);   /* begin day gap within job period 1         */
QF231   = X( 987);   /* begin year gap within job period 1        */
QF233   = X( 988);   /* ending month gap within job period 1      */
QF235   = X( 989);   /* ending day gap within job period 1        */
QF237   = X( 990);   /* ending year gap within job period 1       */
QF239   = X( 997);   /* reason not working                       */
QF241   = X( 992);   /* R looking for wrk some,none,or all weeks   */
QF252   = X( 996);   /* # of wks looking for work or on layoff     */
QF262   = X(1000);   /* begin month gap within job period 2       */
QF264   = X(1001);   /* begin day gap within job period 2         */
QF266   = X(1002);   /* begin year gap within job period 2        */
QF268   = X(1003);   /* ending month gap within job period 2      */
QF270   = X(1004);   /* ending day gap within job period 2        */
QF272   = X(1005);   /* ending year gap within job period 2       */
QF274   = X(1006);   /* reason not working                       */
QF309   = X(1007);   /* R looking for wrk some,none,or all weeks   */
QF320   = X(1011);   /* # of wks looking or on layoff period 2     */
QF330   = X(1015);   /* begin month gap within job period 3       */
QF332   = X(1016);   /* begin day gap within job period 3         */
QF334   = X(1017);   /* begin year gap within job period 3        */
QF336   = X(1018);   /* ending month gap within job period 3      */
QF338   = X(1019);   /* ending day gap within job period 3        */
QF340   = X(1020);   /* ending year gap within job period 3       */
QF342   = X(1021);   /* reason not working                       */
QF344   = X(1022);   /* R looking for wrk some,none,or all weeks   */
QF355   = X(1026);   /* # of wks looking or on layoff period 3     */
```

```
QF433   = X(1045);   /* nmbr of hours/day R worked at this job    */
QF435   = X(1046);   /* is this employer recorded in Q_24 sec 5   */
QF437   = X(1047);   /* number of hrs/week R worked at this job    */
QF443   = X(1050);   /* num hrs/wk worked at job-home hrs incl    */
QF445   = X(1051);   /* R wk 10 hr or more a wk?              */
QF449   = X(1053);   /* R's occupation code              */
QF452   = X(1054);   /* R's industry code              */
QF455   = X(1055);   /* R's employment category            */
QF461   = X(1058);   /* amt R was paid including tips,bonus,etc_   */
QF467   = X(1059);   /* amount paid - cents, job #5          */
QF469   = X(1060);   /* pay period for R on job            */
QF527   = X(1072);   /* R's wages set by collective bargaining    */
QF529   = X(1073);   /* is/was R a member of a union/emp assctn   */
WT92    = WTYR;      /* weight for 92                 */


 /*  rewrites to 1992 data tape */
/* rewrite employer supplement b */
 if ID=138 then QB149=2;               if ID=1823 then QB149=-4;
 if ID=2049 then QB149=-4;             if ID=4450 then QB149=-4;
 if ID=6162 then QB149=-4;             if ID=6972 then do; QB149=-4; QB161=2; end;
 if ID=9542 then QB149=-4;             if ID=9947 then QB149=-4;
 if ID=10368 then QB149=-4;            if ID=12064 then QB149=-4;
 if ID=12255 then QB149=-4;            if ID=12254 then do; QB149=-4; QB161=2; end;
 if ID=4229 then QB175=1;              if ID=1377 then do; QB175=9; QB177=13; QB179=91; end;
 if ID=8506 then do; QB175=7; QB177=21; QB179=91; end;
 if ID=4766 then do; QB527=-3; QB529=-3; end;


 /* corrections to confused gaps pertaining to job #1 */
 if ID=295 then do; QB233=3; QB235=27; end;
 if ID=3025 then do; QB233=7; QB235=18; end;
 if ID=6300 then do; QB233=4; QB235=13; end;
 if ID=332 | ID=753 | ID=1085 | ID=1324 | ID=1540 | ID=1585 | ID=1827 | ID=1837 | ID=2079 | ID=4731 |
         ID=5044 | ID=5856 | ID=7512 | ID=7837 | ID=8060 | ID=8473 | ID=9764 | ID=11841 | ID=11910 then
         do;
   QB223=0; QB227=-4; QB229=-4; QB231=-4; QB233=-4; QB235=-4; QB237=-4; QB239=-4;
   end;
 if ID=7004 then do;
   QB223=0; QB227=-4; QB229=-4; QB231=-4; QB233=-4; QB235=-4; QB237=-4; QB239=-4;
   end;
 if ID=1077 | ID=3108 then do;
   QB330=-4; QB332=-4; QB334=-4; QB336=-4; QB338=-4; QB340=-4; QB342=-4; QB344=-4;
   end;
 if ID=1439 | ID=2541 | ID=7945 then do;
   QB223=0; QB227=-4; QB229=-4; QB231=-4; QB233=-4; QB235=-4; QB237=-4; QB239=-4; QB262=-4;
         QB264=-4; QB266=-4; QB268=-4; QB270=-4; QB272=-4; QB274=-4;
   end;
 if ID=2542 then do;
   QB262=-4; QB264=-4; QB266=-4; QB268=-4; QB270=-4; QB272=-4; QB274=-4;
   end;
 if ID=5960 then do;
   QB223=0; QB227=-4; QB229=-4; QB231=-4; QB233=-4; QB235=-4; QB237=-4; QB239=-4; Q1509=7;
         Q1511=91; Q1513=9; Q1515=20; Q1517=91; Q1519=-3; Q1532=-3; Q1538=2;
   end;
 if ID=6256 then do;
   QB227=12; QB229=20; QB233=5; QB235=3; QB237=92; QB239=2; QB262=-4; QB264=-4; QB266=-4;
         QB268=-4; QB270=-4; QB272=-4; QB274=-4;
```

```
  end;
if ID=8158 then do;
  QB262=-4; QB264=-4; QB266=-4; QB268=-4; QB270=-4; QB272=-4; QB274=-4; QB309=-4;
  end;
if ID=8686 | ID=9094 | ID=11903 then do;
  QB262=-4; QB264=-4; QB266=-4; QB268=-4; QB270=-4; QB272=-4; QB274=-4;
  end;


/* employer supplement c */
if ID=407 then QC149=2;        if ID=1081 then QC149=2;       if ID=1446 then QC149=2;
if ID=1893 then QC149=2;       if ID=2447 then QC149=-4;      if ID=2865 then QC149=2;
if ID=4022 then QC149=2;       if ID=5108 then QC149=2;       if ID=7243 then QC149=2;
if ID=7979 then QC149=-4;      if ID=8347 then QC149=2;       if ID=12105 then QC149=-4;


/* corrections to confused gaps pertaining to job #2 */
if ID=3285 then QC179=91;
if ID=332 | ID=1588 | ID=1819 | ID=1822 | ID=2209 | ID=2454 | ID=3089 | ID=3107 | ID=3359 | ID=3810 |
        ID=4403 | ID=4686 | ID=5654 | ID=5913 | ID=6605 | ID=7047 | ID=7963 | ID=8107 | ID=8117 |
        ID=9095 | ID=11623 then do;
  QC223=0; QC227=-4; QC229=-4; QC231=-4; QC233=-4; QC235=-4; QC237=-4; QC239=-4;
  end;
if ID=8669 | ID=12196 then do;
  QC223=0; QC227=-4; QC229=-4; QC231=-4; QC233=-4; QC235=-4; QC237=-4; QC239=-4; QC241=-4;
  end;
if ID=11241 then do;
  QC227=9; QC229=16; QC233=4; QC235=30; QC237=2; QC262=-4; QC264=-4; QC266=-4; QC268=-4;
        QC270=-4; QC272=-4; QC274=-4; QC309=-4;
  end;
if ID=1255 |ID=3539 then do;
  QC262=-4; QC264=-4; QC266=-4; QC268=-4; QC270=-4; QC272=-4; QC274=-4;
  end;
if ID=1556 | ID=8000 | ID=8282 then do;
  QC262=-4; QC264=-4; QC266=-4; QC268=-4; QC270=-4; QC272=-4; QC274=-4; QC309=-4;
  end;
if ID=3927 then do;
  QC262=-4; QC264=-4; QC266=-4; QC268=-4; QC270=-4; QC272=-4; QC274=-4; QC309=-4;
  end;
if ID=1812 then do;
  QC223=0; QC227=-4; QC229=-4; QC231=-4; QC233=-4; QC235=-4; QC237=-4; QC239=-4; Q1447=5;
        Q1449=20; Q1453=5; Q1455=26; Q1459=-3; Q1470=-3; Q1476=-3; Q1509=2; Q1511=7; Q1513=92;
        Q1515=2; Q1517=25; Q1519=92; Q1521=3;
  end;
if ID=3250 then do;
  QC223=0; QC227=-4; QC229=-4; QC231=-4; QC233=-4; QC235=-4; QC237=-4; QC239=-4; QC241=-4;
        QC262=-4; QC264=-4; QC266=-4; QC268=-4; QC270=-4; QC272=-4; QC274=-4; QC309=-4;
  end;
if ID=5058 then do;
  QC330=-4; QC332=-4; QC334=-4; QC336=-4; QC338=-4; QC340=-4; QC342=-4; QC344=-4;
  end;
if ID=5211 | ID=4590 then do;
  QC330=-4; QC332=-4; QC334=-4; QC336=-4; QC338=-4; QC340=-4; QC342=-4;
  end;
if ID=3714 then do;
  QC227=8; QC229=23; QC231=92; QC233=9; QC235=30; QC237=92; QC239=2; QC241=-4; QC262=-4;
        QC264=-4; QC266=-4; QC268=-4; QC270=-4; QC272=-4; QC274=-4;
  end;
```

```
if ID=9606 then do;
   QC223=0; QC227=-4; QC229=-4; QC231=-4; QC233=-4; QC235=-4; QC237=-4; QC239=-4; QC241=-4;
         QD223=0; QD227=-4; QD229=-4; QD231=-4; QD233=-4; QD235=-4; QD237=-4; QD239=-4;
   end;

/* employer supplement d */
if ID=7295 then QD149=2;                    if ID=9010 then QD149=2;

/* corrections to confused gaps pertaining to job #3 */
if ID=1645 then do;
   QD223=0; QD227=-4; QD229=-4; QD231=-4; QD233=-4; QD235=-4; QD237=-4; QD239=-4; QD241=-4;
   end;
if ID=3539 then do;
   QD223=0; QD227=-4; QD229=-4; QD231=-4; QD233=-4; QD235=-4; QD237=-4; QD239=-4;
   end;
if ID=3106 then do;
   QD223=0; QD227=-4; QD229=-4; QD231=-4; QD233=-4; QD235=-4; QD237=-4; QD239=-4; QD241=-4;
         QD262=-4; QD264=-4; QD266=-4; QD268=-4; QD270=-4; QD272=-4; QD274=-4; QD309=-4;
   end;
if ID=8005 then do;
   QD233=12; QD235=15; QD237=91; QE233=8; QE235=15; QE237=91;
   end;
if ID=11014 then do;
   QD233=9; QD235=22;
   end;

/* employer supplement e */
if ID=7907 then QE149=-4;

/* corrections to confused gaps pertaining to job #4 */
if ID=2059 then do; QE233=9; QE237=91; end;

/* rewrite section 7 - between job gaps */
if ID=7149 | ID=8260 then Q1459=2;
if ID=6081 then Q1476=-3;
if ID=2127 | ID=2560 | ID=5857 | ID=9835 | ID=10157 then do; Q1459=3; Q1470=-4; Q1476=-4; end;
if ID=5061 then Q1538=-3;
if ID=3729 then do; Q1521=3;  Q1532=-4;  Q1538=-4; end;

/* payrates and time units - 1993 */
if QB461=-1 | QB461=-2 then QB461=QB461;
 else if QB461=999996 then QB461=-3;
   else if QB461>=0 then do;
     if QB467=-3 then QB461=QB461 * 100 + 99;
       else if QB467=-2 then QB461=QB461 * 100 + 98;
         else if QB467=-1 then QB461=QB461 * 100 + 97;
           else if QB467>=0 then QB461=QB461 * 100 + QB467;
             else QB461=-3;
   end;
else QB461=QB467;
QB467=-4;

if QC461=-1 | QC461=-2 then QC461=QC461;
 else if QC461=999996 then QC461=-3;
   else if QC461>=0 then do;
     if QC467=-3 then QC461=QC461 * 100 + 99;
```

```
      else if QC467=-2 then QC461=QC461 * 100 + 98;
        else if QC467=-1 then QC461=QC461 * 100 + 97;
          else if QC467>=0 then QC461=QC461 * 100 + QC467;
            else QC461=-3;
    end;
  else QC461=QC467;
  QC467=-4;

  if QD461=-1 | QD461=-2 then QD461=QD461;
   else if QD461=999996 then QD461=-3;
    else if QD461>=0 then do;
      if QD467=-3 then QD461=QD461 * 100 + 99;
        else if QD467=-2 then QD461=QD461 * 100 + 98;
          else if QD467=-1 then QD461=QD461 * 100 + 97;
            else if QD467>=0 then QD461=QD461 * 100 + QD467;
              else QD461=-3;
    end;
  else QD461=QD467;
  QD467=-4;

  if QE461=-1 | QE461=-2 then QE461=QE461;
   else if QE461=999996 then QE461=-3;
    else if QE461>=0 then do;
      if QE467=-3 then QE461=QE461 * 100 + 99;
        else if QE467=-2 then QE461=QE461 * 100 + 98;
          else if QE467=-1 then QE461=QE461 * 100 + 97;
            else if QE467>=0 then QE461=QE461 * 100 + QE467;
              else QE461=-3;
    end;
  else QE461=QE467;
  QE467=-4;

  if QF461=-1 | QF461=-2 then QF461=QF461;
   else if QF461=999996 then QF461=-3;
    else if QF461>=0 then do;
      if QF467=-3 then QF461=QF461 * 100 + 99;
        else if QF467=-2 then QF461=QF461 * 100 + 98;
          else if QF467=-1 then QF461=QF461 * 100 + 97;
            else if QF467>=0 then QF461=QF461 * 100 + QF467;
              else QF461=-3;
    end;
  else QF461=QF467;
  QF467=-4;

/* set payrates larger than 8 columns to 9999995 */
if QB461 >=10000000 then QB461=9999995;        if QC461 >=10000000 then QC461=9999995;

/* interviewer remarks */
if ID=70 then Q7121=29;        if ID=5416 | ID=9295 then Q7119=7;        if ID=9947 then Q7119=11;
/* end rewrites to 1992 data tape */

SKIPME:
  PR=1;
  do J=2 to NEWYEAR-1;
    if OLDHIST(J).OWT > 0 then PR=J;
  end;
```

```
    WORK_HISTORY(NEWYEAR)=-4;
    CPS_HOURLYWAGE(NEWYEAR)=-4;
    if (NORCIDS^=X(1)) then do; /* skipme: missing newyear w.h. data */
      CPS_HOURLYWAGE(NEWYEAR)=-5;
      WORK_HISTORY(NEWYEAR)=-5;
      WEIGHT(NEWYEAR)=0 ;
      WTZERO=WTZERO+1;
    end;
    else do;
      call NEWVARIABLES;      /* read addjob variables */
      call CALC(NEWYEAR);
      call SUMMER(NEWYEAR);
      do I = 1 to 5;  /** compute cps hourly wage **/
        if CPSJOB(NEWYEAR,I)=1 then CPS_HOURLYWAGE(NEWYEAR) =
          HOURLYWAGE(NEWYEAR,I);
      end;

      /*** compute current jobever() ***/
      JOBEVER(NEWYEAR)=0;  /* find greatest job cnt in hold hist */
      do I = (NEWYEAR-1) to 1 by -1 WHILE(JOBEVER(NEWYEAR)=0);
        if OLDHIST(I).OJOBEVER= -3 then JOBEVER(NEWYEAR)=-3;
        else if OLDHIST(I).OJOBEVER>0 then JOBEVER(NEWYEAR)=
          OLDHIST(I).OJOBEVER;
      end;
      if JOBEVER(NEWYEAR)>=0 then do; /* add any additional jobs ?*/
        do I=1 to 10;
          if (NUMBER(NEWYEAR,I)>100 & (PREVIOUSEMP#(NEWYEAR,I)=-3 |
            PREVIOUSEMP#(NEWYEAR,I)=0) ) then JOBEVER(NEWYEAR)=-3;
          else if (NUMBER(NEWYEAR,I)>100 & PREVIOUSEMP#(NEWYEAR,I)=-4 &
            JOBEVER(NEWYEAR)>=0 )
            then JOBEVER(NEWYEAR)=JOBEVER(NEWYEAR)+1;
        end;
      end;
    end;

  write file(NEWXVAR) from (XVARS);
  kount_XVR=kount_XVR+1;
  write file(NEWWORK) from (VARIABLES);
  kount_out=kount_out+1;
  put file(OUTDISK) edit (ID,MILWKSL(NEWYEAR),MILWKSC(NEWYEAR),WORKC(NEWYEAR),
        HOURC(NEWYEAR),WUMPC(NEWYEAR),WOLFC(NEWYEAR),MISSC(NEWYEAR),
        WORKL(NEWYEAR),HOURL(NEWYEAR),WUMPL(NEWYEAR),WOLFL(NEWYEAR),
        WBID(NEWYEAR),MISSL(NEWYEAR),CPS_HOURLYWAGE(NEWYEAR),
        HOURLYWAGE(NEWYEAR,1),HOURLYWAGE(NEWYEAR,2),
        HOURLYWAGE(NEWYEAR,3),HOURLYWAGE(NEWYEAR,4),
        HOURLYWAGE(NEWYEAR,5),JOBEVER(NEWYEAR)) (COL(1),21(F(7)));
  go to READ1;  /*** MAIN LOOP ***/

1NEWVARIABLES:PROC;
 dcl ADDJVBLS(586) float dec(6);
 WEIGHT(NEWYEAR)=WT92;            STARTM(NEWYEAR,1)=QB175;
 STARTD(NEWYEAR,1)=QB177;         STARTY(NEWYEAR,1)=QB179;
 STARTM(NEWYEAR,2)=QC175;         STARTD(NEWYEAR,2)=QC177;
 STARTY(NEWYEAR,2)=QC179;         STARTM(NEWYEAR,3)=QD175;
 STARTD(NEWYEAR,3)=QD177;         STARTY(NEWYEAR,3)=QD179;
 STARTM(NEWYEAR,4)=QE175;         STARTD(NEWYEAR,4)=QE177;
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STARTY(NEWYEAR,4)=QE179;          STARTM(NEWYEAR,5)=QF175;
STARTD(NEWYEAR,5)=QF177;          STARTY(NEWYEAR,5)=QF179;
STOPM(NEWYEAR,1)=QB211;           STOPD(NEWYEAR,1)=QB213;
STOPY(NEWYEAR,1)=QB215;           STOPM(NEWYEAR,2)=QC211;
STOPD(NEWYEAR,2)=QC213;           STOPY(NEWYEAR,2)=QC215;
STOPM(NEWYEAR,3)=QD211;           STOPD(NEWYEAR,3)=QD213;
STOPY(NEWYEAR,3)=QD215;           STOPM(NEWYEAR,4)=QE211;
STOPD(NEWYEAR,4)=QE213;           STOPY(NEWYEAR,4)=QE215;
STOPM(NEWYEAR,5)=QF211;           STOPD(NEWYEAR,5)=QF213;
STOPY(NEWYEAR,5)=QF215;
LASTINT(NEWYEAR)=
  CEIL(WEEK(OLDHIST(PR).OINTM,OLDHIST(PR).OINTD,OLDHIST(PR).OINTY)+1/7);
INT(NEWYEAR)=FLOOR(WEEK(Q7119,Q7121,SURVEY_YR));
INTM(NEWYEAR)=Q7119;
INTD(NEWYEAR)=Q7121;
 /* if INT(NEWYEAR)=-3 then INT(NEWYEAR)=-3; */
if WEIGHT(NEWYEAR)>0 then INTY(NEWYEAR)=SURVEY_YR;
HOURDAY(NEWYEAR,1)=QB433;          HOURDAY(NEWYEAR,2)=QC433;
HOURDAY(NEWYEAR,3)=QD433;          HOURDAY(NEWYEAR,4)=QE433;
HOURDAY(NEWYEAR,5)=QF433;
PAYRATE(NEWYEAR,1)=QB461;          PAYRATE(NEWYEAR,2)=QC461;
PAYRATE(NEWYEAR,3)=QD461;          PAYRATE(NEWYEAR,4)=QE461;
PAYRATE(NEWYEAR,5)=QF461;
TIMERATE(NEWYEAR,1)=QB469;         TIMERATE(NEWYEAR,2)=QC469;
TIMERATE(NEWYEAR,3)=QD469;         TIMERATE(NEWYEAR,4)=QE469;
TIMERATE(NEWYEAR,5)=QF469;
UNION(NEWYEAR,1)=QB527;            UNION(NEWYEAR,2)=QC527;
UNION(NEWYEAR,3)=QD527;            UNION(NEWYEAR,4)=QE527;
UNION(NEWYEAR,5)=QF527;
GOVTJOB(NEWYEAR,1)=-4;             GOVTJOB(NEWYEAR,2)=-4;
GOVTJOB(NEWYEAR,3)=-4;             GOVTJOB(NEWYEAR,4)=-4;
GOVTJOB(NEWYEAR,5)=-4;
if QB149>-4 then PREVIOUSEMP#(NEWYEAR,1)=QB149; else PREVIOUSEMP#(NEWYEAR,1)=QB161;
if QC149>-4 then PREVIOUSEMP#(NEWYEAR,2)=QC149; else PREVIOUSEMP#(NEWYEAR,2)=QC161;
if QD149>-4 then PREVIOUSEMP#(NEWYEAR,3)=QD149; else PREVIOUSEMP#(NEWYEAR,3)=QD161;
if QE149>-4 then PREVIOUSEMP#(NEWYEAR,4)=QE149; else PREVIOUSEMP#(NEWYEAR,4)=QE161;
if QF149>-4 then PREVIOUSEMP#(NEWYEAR,5)=QF149; else PREVIOUSEMP#(NEWYEAR,5)=QF161;
PRETEN(NEWYEAR,1)=QB173;           PRETEN(NEWYEAR,2)=QC173;
PRETEN(NEWYEAR,3)=QD173;           PRETEN(NEWYEAR,4)=QE173;
PRETEN(NEWYEAR,5)=QF173;
if QB175>-4 then do;
  START(NEWYEAR,1)=WEEK(QB175,QB177,QB179);
  STOP(NEWYEAR,1)=WEEK(QB211,QB213,QB215);
end;
if QC175>-4 then do;
  START(NEWYEAR,2)=WEEK(QC175,QC177,QC179);
  STOP(NEWYEAR,2)=WEEK(QC211,QC213,QC215);
end;
if QD175>-4 then do;
  START(NEWYEAR,3)=WEEK(QD175,QD177,QD179);
  STOP(NEWYEAR,3)=WEEK(QD211,QD213,QD215);
end;
if QE175>-4 then do;
  START(NEWYEAR,4)=WEEK(QE175,QE177,QE179);
  STOP(NEWYEAR,4)=WEEK(QE211,QE213,QE215);
end;
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if QF175>-4 then do;
  START(NEWYEAR,5)=WEEK(QF175,QF177,QF179);
  STOP(NEWYEAR,5)=WEEK(QF211,QF213,QF215);
end;


PAST(NEWYEAR,1)=QB169;                        PAST(NEWYEAR,2)=QC169;
PAST(NEWYEAR,3)=QD169;                        PAST(NEWYEAR,4)=QE169;
PAST(NEWYEAR,5)=QF169;
CURRENT(NEWYEAR,1)=QB209;                     CURRENT(NEWYEAR,2)=QC209;
CURRENT(NEWYEAR,3)=QD209;                     CURRENT(NEWYEAR,4)=QE209;
CURRENT(NEWYEAR,5)=QF209;
WHYLEFT(NEWYEAR,1)=QB217;                     WHYLEFT(NEWYEAR,2)=QC217;
WHYLEFT(NEWYEAR,3)=QD217;                     WHYLEFT(NEWYEAR,4)=QE217;
WHYLEFT(NEWYEAR,5)=QF217;
WEEKSNOTWORKED(NEWYEAR,1)=QB223;              WEEKSNOTWORKED(NEWYEAR,2)=QC223;
WEEKSNOTWORKED(NEWYEAR,3)=QD223;              WEEKSNOTWORKED(NEWYEAR,4)=QE223;
WEEKSNOTWORKED(NEWYEAR,5)=QF223;
CPSJOB(NEWYEAR,1)=QB435;                      CPSJOB(NEWYEAR,2)=QC435;
CPSJOB(NEWYEAR,3)=QD435;                      CPSJOB(NEWYEAR,4)=QE435;
CPSJOB(NEWYEAR,5)=QF435;
if QB435=1 then do;
  INDUSTRY(NEWYEAR,1)=Q1245;                  OCCUPATION(NEWYEAR,1)=Q1248;
  CLASSWORKER(NEWYEAR,1)=Q1259;
  if Q1271=-4 then HOURSWEEK(NEWYEAR,1)=Q1265;
  else if Q1271^=-4 then HOURSWEEK(NEWYEAR,1)=Q1271;
end;
else do;
  INDUSTRY(NEWYEAR,1)=QB452;                  OCCUPATION(NEWYEAR,1)=QB449;
  CLASSWORKER(NEWYEAR,1)=QB455;
  if QB443=-4 then HOURSWEEK(NEWYEAR,1)=QB437;
  else if QB443^=-4 then HOURSWEEK(NEWYEAR,1)=QB443;
end;
if QC435=1 then do;
  INDUSTRY(NEWYEAR,2)=Q1245;                  OCCUPATION(NEWYEAR,2)=Q1248;
  CLASSWORKER(NEWYEAR,2)=Q1259;
  if Q1271=-4 then HOURSWEEK(NEWYEAR,2)=Q1265;
  else if Q1271^=-4 then HOURSWEEK(NEWYEAR,2)=Q1271;
end;
else do;
  INDUSTRY(NEWYEAR,2)=QC452;                  OCCUPATION(NEWYEAR,2)=QC449;
  CLASSWORKER(NEWYEAR,2)=QC455;
  if QC443=-4 then HOURSWEEK(NEWYEAR,2)=QC437;
  else if QC443^=-4 then HOURSWEEK(NEWYEAR,2)=QC443;
end;
if QD435=1 then do;
  INDUSTRY(NEWYEAR,3)=Q1245;                  OCCUPATION(NEWYEAR,3)=Q1248;
  CLASSWORKER(NEWYEAR,3)=Q1259;
  if Q1271=-4 then HOURSWEEK(NEWYEAR,3)=Q1265;
  else if Q1271^=-4 then HOURSWEEK(NEWYEAR,3)=Q1271;
end;
else do;
  INDUSTRY(NEWYEAR,3)=QD452;                  OCCUPATION(NEWYEAR,3)=QD449;
  CLASSWORKER(NEWYEAR,3)=QD455;
  if QD443=-4 then HOURSWEEK(NEWYEAR,3)=QD437;
  else if QD443^=-4 then HOURSWEEK(NEWYEAR,3)=QD443;
end;
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if QE435=1 then do;
  INDUSTRY(NEWYEAR,4)=Q1245;                OCCUPATION(NEWYEAR,4)=Q1248;
  CLASSWORKER(NEWYEAR,4)=Q1259;
  if Q1271=-4 then HOURSWEEK(NEWYEAR,4)=Q1265;
  else if Q1271^=-4 then HOURSWEEK(NEWYEAR,4)=Q1271;
end;
else do;
  INDUSTRY(NEWYEAR,4)=QE452;                OCCUPATION(NEWYEAR,4)=QE449;
  CLASSWORKER(NEWYEAR,4)=QE455;
  if QE443=-4 then HOURSWEEK(NEWYEAR,4)=QE437;
  else if QE443^=-4 then HOURSWEEK(NEWYEAR,4)=QE443;
end;
if QF435=1 then do;
  INDUSTRY(NEWYEAR,5)=Q1245;                OCCUPATION(NEWYEAR,5)=Q1248;
  CLASSWORKER(NEWYEAR,5)=Q1259;
  if Q1271=-4 then HOURSWEEK(NEWYEAR,5)=Q1265;
  else if Q1271^=-4 then HOURSWEEK(NEWYEAR,5)=Q1271;
end;
else do;
  INDUSTRY(NEWYEAR,5)=QF452;                OCCUPATION(NEWYEAR,5)=QF449;
  CLASSWORKER(NEWYEAR,5)=QF455;
  if QF443=-4 then HOURSWEEK(NEWYEAR,5)=QF437;
  else if QF443^=-4 then HOURSWEEK(NEWYEAR,5)=QF443;
end;
if QB227>-4 then do;
  PERIODSTART(NEWYEAR,1,1)=WEEK(QB227,QB229,QB231);
  PERIODSTOP(NEWYEAR,1,1)=WEEK(QB233,QB235,QB237);
end;
if QB262>-4 then do;
  PERIODSTART(NEWYEAR,1,2)=WEEK(QB262,QB264,QB266);
  PERIODSTOP(NEWYEAR,1,2)=WEEK(QB268,QB270,QB272);
end;
if QB330>-4 then do;
  PERIODSTART(NEWYEAR,1,3)=WEEK(QB330,QB332,QB334);
  PERIODSTOP(NEWYEAR,1,3)=WEEK(QB336,QB338,QB340);
end;
if QC227>-4 then do;
  PERIODSTART(NEWYEAR,2,1)=WEEK(QC227,QC229,QC231);
  PERIODSTOP(NEWYEAR,2,1)=WEEK(QC233,QC235,QC237);
end;
if QC262>-4 then do;
  PERIODSTART(NEWYEAR,2,2)=WEEK(QC262,QC264,QC266);
  PERIODSTOP(NEWYEAR,2,2)=WEEK(QC268,QC270,QC272);
end;
if QC330>-4 then do;
  PERIODSTART(NEWYEAR,2,3)=WEEK(QC330,QC332,QC334);
  PERIODSTOP(NEWYEAR,2,3)=WEEK(QC336,QC338,QC340);
end;
if QD227>-4 then do;
  PERIODSTART(NEWYEAR,3,1)=WEEK(QD227,QD229,QD231);
  PERIODSTOP(NEWYEAR,3,1)=WEEK(QD233,QD235,QD237);
end;
if QD262>-4 then do;
  PERIODSTART(NEWYEAR,3,2)=WEEK(QD262,QD264,QD266);
  PERIODSTOP(NEWYEAR,3,2)=WEEK(QD268,QD270,QD272);
end;
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if QD330>-4 then do;
  PERIODSTART(NEWYEAR,3,3)=WEEK(QD330,QD332,QD334);
  PERIODSTOP(NEWYEAR,3,3)=WEEK(QD336,QD338,QD340);
end;
if QE227>-4 then do;
  PERIODSTART(NEWYEAR,4,1)=WEEK(QE227,QE229,QE231);
  PERIODSTOP(NEWYEAR,4,1)=WEEK(QE233,QE235,QE237);
end;
if QE262>-4 then do;
  PERIODSTART(NEWYEAR,4,2)=WEEK(QE262,QE264,QE266);
  PERIODSTOP(NEWYEAR,4,2)=WEEK(QE268,QE270,QE272);
end;
if QE330>-4 then do;
  PERIODSTART(NEWYEAR,4,3)=WEEK(QE330,QE332,QE334);
  PERIODSTOP(NEWYEAR,4,3)=WEEK(QE336,QE338,QE340);
end;
if QF227>-4 then do;
  PERIODSTART(NEWYEAR,5,1)=WEEK(QF227,QF229,QF231);
  PERIODSTOP(NEWYEAR,5,1)=WEEK(QF233,QF235,QF237);
end;
if QF262>-4 then do;
  PERIODSTART(NEWYEAR,5,2)=WEEK(QF262,QF264,QF266);
  PERIODSTOP(NEWYEAR,5,2)=WEEK(QF268,QF270,QF272);
end;
if QF330>-4 then do;
  PERIODSTART(NEWYEAR,5,3)=WEEK(QF330,QF332,QF334);
  PERIODSTOP(NEWYEAR,5,3)=WEEK(QF336,QF338,QF340);
end;
REASON(NEWYEAR,1,1)=QB239;        REASON(NEWYEAR,1,2)=QB274;
REASON(NEWYEAR,1,3)=QB342;        REASON(NEWYEAR,2,1)=QC239;
REASON(NEWYEAR,2,2)=QC274;        REASON(NEWYEAR,2,3)=QC342;
REASON(NEWYEAR,3,1)=QD239;        REASON(NEWYEAR,3,2)=QD274;
REASON(NEWYEAR,3,3)=QD342;        REASON(NEWYEAR,4,1)=QE239;
REASON(NEWYEAR,4,2)=QE274;        REASON(NEWYEAR,4,3)=QE342;
REASON(NEWYEAR,5,1)=QF239;        REASON(NEWYEAR,5,2)=QF274;
REASON(NEWYEAR,5,3)=QF342;
ALL(NEWYEAR,1,1)=QB241;           ALL(NEWYEAR,1,2)=QB309;
ALL(NEWYEAR,1,3)=QB344;           ALL(NEWYEAR,2,1)=QC241;
ALL(NEWYEAR,2,2)=QC309;           ALL(NEWYEAR,2,3)=QC344;
ALL(NEWYEAR,3,1)=QD241;           ALL(NEWYEAR,3,2)=QD309;
ALL(NEWYEAR,3,3)=QD344;           ALL(NEWYEAR,4,1)=QE241;
ALL(NEWYEAR,4,2)=QE309;           ALL(NEWYEAR,4,3)=QE344;
ALL(NEWYEAR,5,1)=QF241;           ALL(NEWYEAR,5,2)=QF309;
ALL(NEWYEAR,5,3)=QF344;
LOOK(NEWYEAR,1,1)=QB252;          LOOK(NEWYEAR,1,2)=QB320;
LOOK(NEWYEAR,1,3)=QB355;          LOOK(NEWYEAR,2,1)=QC252;
LOOK(NEWYEAR,2,2)=QC320;          LOOK(NEWYEAR,2,3)=QC355;
LOOK(NEWYEAR,3,1)=QD252;          LOOK(NEWYEAR,3,2)=QD320;
LOOK(NEWYEAR,3,3)=QD355;          LOOK(NEWYEAR,4,1)=QE252;
LOOK(NEWYEAR,4,2)=QE320;          LOOK(NEWYEAR,4,3)=QE355;
LOOK(NEWYEAR,5,1)=QF252;          LOOK(NEWYEAR,5,2)=QF320;
LOOK(NEWYEAR,5,3)=QF355;

/*     EXTRA WITHIN JOB GAPS          */
if ID=912 then do;
  PERIODSTART(NEWYEAR,1,4)=WEEK(7,1,91);   PERIODSTOP(NEWYEAR,1,4)=WEEK(7,21,91);
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    REASON(NEWYEAR,1,4)= 4;                    ALL(NEWYEAR,1,4)=1;
  end;
  if ID=2382 then do;
    PERIODSTART(NEWYEAR,1,4)=WEEK(6,8,92);   PERIODSTOP(NEWYEAR,1,4)=WEEK(6,29,92);
    REASON(NEWYEAR,1,4)= 9;                    ALL(NEWYEAR,1,4)=1;
  end;
  if ID=2684 then do;
    PERIODSTART(NEWYEAR,1,4)=WEEK(5,17,92);  PERIODSTOP(NEWYEAR,1,4)=WEEK(6,5,92);
    REASON(NEWYEAR,1,4)= 4;                    ALL(NEWYEAR,1,4)=1;
  end;
  if ID=3430 then do;
    PERIODSTART(NEWYEAR,1,4)=WEEK(3,1,92);   PERIODSTOP(NEWYEAR,1,4)=WEEK(3,8,92);
    REASON(NEWYEAR,1,4)= 4;                    ALL(NEWYEAR,1,4)=1;
  end;
  if ID=3494 then do;
    PERIODSTART(NEWYEAR,1,4)=WEEK(1,20,92);  PERIODSTOP(NEWYEAR,1,4)=WEEK(1,31,92);
    REASON(NEWYEAR,1,4)= 2;
  end;
  if ID=5500 then do;
    PERIODSTART(NEWYEAR,1,4)=WEEK(7,13,92);  PERIODSTOP(NEWYEAR,1,4)=WEEK(7,27,92);
    REASON(NEWYEAR,1,4)= 2;
  end;
  if ID=7150 then do;
    PERIODSTART(NEWYEAR,1,4)=WEEK(6,5,92);   PERIODSTOP(NEWYEAR,1,4)=WEEK(7,14,92);
    REASON(NEWYEAR,1,4)= 12;
  end;
  if ID=8360 then do;
    PERIODSTART(NEWYEAR,1,4)=WEEK(6,21,92);  PERIODSTOP(NEWYEAR,1,4)=WEEK(6,27,92);
    REASON(NEWYEAR,1,4)= 13;
  end;
  if ID=12091 then do;
    PERIODSTART(NEWYEAR,1,4)=WEEK(2,10,92);  PERIODSTOP(NEWYEAR,1,4)=WEEK(2,17,92);
    REASON(NEWYEAR,1,4)= 2;
  end;
  if ID=692 then do;
    PERIODSTART(NEWYEAR,2,4)=WEEK(5,1,92);   PERIODSTOP(NEWYEAR,2,4)=WEEK(7,9,92);
    REASON(NEWYEAR,2,4)= 4;                    ALL(NEWYEAR,2,4)=1;
  end;
  if ID=1854 then do;
    PERIODSTART(NEWYEAR,2,4)=WEEK(-2,-2,-2);   PERIODSTOP(NEWYEAR,2,4)=WEEK(-2,-2,-2);
    REASON(NEWYEAR,2,4)= -2;                    ALL(NEWYEAR,2,4)=-2;
  end;
  if ID=2068 then do;
    PERIODSTART(NEWYEAR,2,4)=WEEK(10,2,92);   PERIODSTOP(NEWYEAR,2,4)=WEEK(10,28,92);
    REASON(NEWYEAR,2,4)= 4;                    ALL(NEWYEAR,2,4)=1;
  end;
  if ID=2262 then do;
    PERIODSTART(NEWYEAR,2,4)=WEEK(11,22,91);   PERIODSTOP(NEWYEAR,2,4)=WEEK(12,17,91);
    REASON(NEWYEAR,2,4)= 4;                    ALL(NEWYEAR,2,4)=1;
  end;
  if ID=3708 then do;
    PERIODSTART(NEWYEAR,2,4)=WEEK(6,1,92);   PERIODSTOP(NEWYEAR,2,4)=WEEK(6,27,92);
    REASON(NEWYEAR,2,4)= 4;                    ALL(NEWYEAR,2,4)=1;
  end;
  if ID=6817 then do;
    PERIODSTART(NEWYEAR,2,4)=WEEK(6,8,92);   PERIODSTOP(NEWYEAR,2,4)=WEEK(7,9,92);
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     REASON(NEWYEAR,2,4)= 4;                         ALL(NEWYEAR,2,4)=1;
  end;
  if ID=944 then do;
    PERIODSTART(NEWYEAR,3,1)=WEEK(12,23,91);   PERIODSTOP(NEWYEAR,3,1)=WEEK(6,4,92);
    REASON(NEWYEAR,3,1)= 4;                          ALL(NEWYEAR,3,1)=3;
  end;
/*   end extra within job gaps          */

/*      extra between job gaps          */
if ID=1041 then do;
  BSTART(NEWYEAR,5) = WEEK(9,2,90);             BSTOP(NEWYEAR,5)  = WEEK(7,31,91);
  BALL(NEWYEAR,5)   = 3;
 end;
 if ID=1668 then do;
  BSTART(NEWYEAR,5) = WEEK(6,28,91);            BSTOP(NEWYEAR,5)  = WEEK(2,10,92);
  BALL(NEWYEAR,5)   = 3;
 end;
 if ID=5681 then do;
  BSTART(NEWYEAR,5) = WEEK(10,21,85);           BSTOP(NEWYEAR,5)  = WEEK(7,14,86);
  BALL(NEWYEAR,5)   = 2;                         BREASON(NEWYEAR,5) = -2;
  BLOOK(NEWYEAR,5) = -2;                         BSTART(NEWYEAR,6) = WEEK(2,14,84);
  BSTOP(NEWYEAR,6)  = WEEK(7,14,86);            BALL(NEWYEAR,6)   = 1;
  BREASON(NEWYEAR,6) = 7;
 end;
 if ID=6794 then do;
  BSTART(NEWYEAR,5) = WEEK(11,24,88);           BSTOP(NEWYEAR,5)  = WEEK(10,5,88);
  BALL(NEWYEAR,5)   = 1;                         BREASON(NEWYEAR,5) = -3;
 end;
/*    end extra between job gaps        */

 if Q1447>-4 then do;
   BSTART(NEWYEAR,1)=WEEK(Q1447,Q1449,Q1451);
   BSTOP(NEWYEAR,1)=WEEK(Q1453,Q1455,Q1457);
 end;
 if Q1509>-4 then do;
   BSTART(NEWYEAR,2)=WEEK(Q1509,Q1511,Q1513);
   BSTOP(NEWYEAR,2)=WEEK(Q1515,Q1517,Q1519);
 end;
 if Q1542>-4 then do;
   BSTART(NEWYEAR,3)=WEEK(Q1542,Q1544,Q1546);
   BSTOP(NEWYEAR,3)=WEEK(Q1548,Q1550,Q1552);
 end;
 if Q1609>-4 then do;
   BSTART(NEWYEAR,4)=WEEK(Q1609,Q1611,Q1613);
   BSTOP(NEWYEAR,4)=WEEK(Q1615,Q1617,Q1619);
 end;
BALL(NEWYEAR,1)=Q1459;                BALL(NEWYEAR,2)=Q1521;
BALL(NEWYEAR,3)=Q1554;                BALL(NEWYEAR,4)=Q1621;
BLOOK(NEWYEAR,1)=Q1470;               BLOOK(NEWYEAR,2)=Q1532;
BLOOK(NEWYEAR,3)=Q1565;               BLOOK(NEWYEAR,4)=Q1632;
BREASON(NEWYEAR,1)=Q1476;             BREASON(NEWYEAR,2)=Q1538;
BREASON(NEWYEAR,3)=Q1571;             BREASON(NEWYEAR,4)=Q1638;

 CURAMIL = 0;
 if (Q0868 = 1) | (Q0928 = 1) then CURAMIL = 1;
 if Q0855=1 & Q9937>=1 & Q9937<=4 then do;
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    if CURAMIL=1 then MSTOP1(NEWYEAR)=INT(NEWYEAR);
    else MSTOP1(NEWYEAR)=WEEK(Q0870,Q0909,Q0872);
    MSTART1(NEWYEAR)=LASTINT(NEWYEAR);
    if MSTART1(NEWYEAR)>=0 & MSTOP1(NEWYEAR)>=MSTART1(NEWYEAR) then
      call FILL(MSTART1(NEWYEAR),MSTOP1(NEWYEAR),7,0);
 end;
 if Q0916>=1 & Q0916<=4 then do;
   if Q0922=1 then do;
     MSTART2(NEWYEAR)=WEEK(Q0924,Q0930,Q0926);
     MSTOP2(NEWYEAR)=INT(NEWYEAR);
   end;
   else if Q0932=1 then do;
     MSTART2(NEWYEAR)=WEEK(Q0934,Q0936,Q0938);
     MSTOP2(NEWYEAR)=WEEK(Q0942,Q0944,Q0946);
   end;
   if MSTART2(NEWYEAR)>=0 & MSTOP2(NEWYEAR)>=MSTART2(NEWYEAR) then
     call FILL(MSTART2(NEWYEAR),MSTOP2(NEWYEAR),7,0);
 end;
 if MSTART1(NEWYEAR)>-4 | MSTART2(NEWYEAR)>-4 | MSTOP1(NEWYEAR)>-4
   | MSTOP2(NEWYEAR)>-4 then do;
   if MSTART1(NEWYEAR)=-3 | MSTART2(NEWYEAR)=-3 | MSTOP1(NEWYEAR)=-3
     | MSTOP2(NEWYEAR)=-3 then do;
     MILWKSL(NEWYEAR)=-3;
     MILWKSC(NEWYEAR)=-3;
   end;
 /*  else if MSTART1(NEWYEAR) > MSTOP1(NEWYEAR) |
     MSTART2(NEWYEAR) > MSTOP2(NEWYEAR) then do;
      MILWKSL(NEWYEAR)=-3;
      MILWKSC(NEWYEAR)=-3;
   end; */
   else do;
     MILWKSL(NEWYEAR)=0;
     MILWKSC(NEWYEAR)=0;
     if MSTART1(NEWYEAR)>=0 then MILWKSL(NEWYEAR)=
       MSTOP1(NEWYEAR) - MSTART1(NEWYEAR) + 1;
     if MSTART2(NEWYEAR)>=0 then MILWKSL(NEWYEAR)=
       MILWKSL(NEWYEAR) + MSTOP2(NEWYEAR) - MSTART2(NEWYEAR) + 1;
     MILWKSL(NEWYEAR)=FLOOR(MILWKSL(NEWYEAR)+.5);
   end;
 end;

 /*   additional jobs / employment supplement          */
NUMVAR=117;  /* number of variables in the supplement */

 if ID=2279 | ID=2423 | ID=5459 | ID=5681   | ID=8020 then do;
   read file(ADDJOBS) into (ADDJVBLS);
   kountadd=kountadd+1;
   STARTM(NEWYEAR,6)=ADDJVBLS(20);
   STARTD(NEWYEAR,6)=ADDJVBLS(21);
   STARTY(NEWYEAR,6)=ADDJVBLS(22);
   STARTM(NEWYEAR,7)=ADDJVBLS(NUMVAR+20);
   STARTD(NEWYEAR,7)=ADDJVBLS(NUMVAR+21);
   STARTY(NEWYEAR,7)=ADDJVBLS(NUMVAR+22);
   STARTM(NEWYEAR,8)=ADDJVBLS((2*NUMVAR)+20);
   STARTD(NEWYEAR,8)=ADDJVBLS((2*NUMVAR)+21);
   STARTY(NEWYEAR,8)=ADDJVBLS((2*NUMVAR)+22);
```

```
STARTM(NEWYEAR,9)=ADDJVBLS((3*NUMVAR)+20);
STARTD(NEWYEAR,9)=ADDJVBLS((3*NUMVAR)+21);
STARTY(NEWYEAR,9)=ADDJVBLS((3*NUMVAR)+22);
STARTM(NEWYEAR,10)=ADDJVBLS((4*NUMVAR)+20);
STARTD(NEWYEAR,10)=ADDJVBLS((4*NUMVAR)+21);
STARTY(NEWYEAR,10)=ADDJVBLS((4*NUMVAR)+22);
STOPM(NEWYEAR,6)=ADDJVBLS(24);
STOPD(NEWYEAR,6)=ADDJVBLS(25);
STOPY(NEWYEAR,6)=ADDJVBLS(26);
STOPM(NEWYEAR,7)=ADDJVBLS(NUMVAR+24);
STOPD(NEWYEAR,7)=ADDJVBLS(NUMVAR+25);
STOPY(NEWYEAR,7)=ADDJVBLS(NUMVAR+26);
STOPM(NEWYEAR,8)=ADDJVBLS((2*NUMVAR)+24);
STOPD(NEWYEAR,8)=ADDJVBLS((2*NUMVAR)+25);
STOPY(NEWYEAR,8)=ADDJVBLS((2*NUMVAR)+26);
STOPM(NEWYEAR,9)=ADDJVBLS((3*NUMVAR)+24);
STOPD(NEWYEAR,9)=ADDJVBLS((3*NUMVAR)+25);
STOPY(NEWYEAR,9)=ADDJVBLS((3*NUMVAR)+26);
STOPM(NEWYEAR,10)=ADDJVBLS((4*NUMVAR)+24);
STOPD(NEWYEAR,10)=ADDJVBLS((4*NUMVAR)+25);
STOPY(NEWYEAR,10)=ADDJVBLS((4*NUMVAR)+26);
if ADDJVBLS(7)>-4 then PREVIOUSEMP#(NEWYEAR,6)=ADDJVBLS(7);
else PREVIOUSEMP#(NEWYEAR,6)=ADDJVBLS(13);
if ADDJVBLS(124)>-4 then PREVIOUSEMP#(NEWYEAR,7)=ADDJVBLS(124);
else PREVIOUSEMP#(NEWYEAR,7)=ADDJVBLS(130);
if ADDJVBLS(241)>-4 then PREVIOUSEMP#(NEWYEAR,8)=ADDJVBLS(241);
else PREVIOUSEMP#(NEWYEAR,8)=ADDJVBLS(247);
if ADDJVBLS(358)>-4 then PREVIOUSEMP#(NEWYEAR,9)=ADDJVBLS(358);
else PREVIOUSEMP#(NEWYEAR,9)=ADDJVBLS(364);
if ADDJVBLS(475)>-4 then PREVIOUSEMP#(NEWYEAR,10)=ADDJVBLS(475);
else PREVIOUSEMP#(NEWYEAR,10)=ADDJVBLS(481);
PRETEN(NEWYEAR,6)=ADDJVBLS(19);
PRETEN(NEWYEAR,7)=ADDJVBLS(NUMVAR+19);
PRETEN(NEWYEAR,8)=ADDJVBLS((2*NUMVAR)+19);
PRETEN(NEWYEAR,9)=ADDJVBLS((3*NUMVAR)+19);
PRETEN(NEWYEAR,10)=ADDJVBLS((4*NUMVAR)+19);
OCCUPATION(NEWYEAR,6)=ADDJVBLS(100);
OCCUPATION(NEWYEAR,7)=ADDJVBLS(NUMVAR+100);
OCCUPATION(NEWYEAR,8)=ADDJVBLS((2*NUMVAR)+100);
OCCUPATION(NEWYEAR,9)=ADDJVBLS((3*NUMVAR)+100);
OCCUPATION(NEWYEAR,10)=ADDJVBLS((4*NUMVAR)+100);
INDUSTRY(NEWYEAR,6)=ADDJVBLS(101);
INDUSTRY(NEWYEAR,7)=ADDJVBLS(NUMVAR+101);
INDUSTRY(NEWYEAR,8)=ADDJVBLS((2*NUMVAR)+101);
INDUSTRY(NEWYEAR,9)=ADDJVBLS((3*NUMVAR)+101);
INDUSTRY(NEWYEAR,10)=ADDJVBLS((4*NUMVAR)+101);
CLASSWORKER(NEWYEAR,6)=ADDJVBLS(102);
CLASSWORKER(NEWYEAR,7)=ADDJVBLS(NUMVAR+102);
CLASSWORKER(NEWYEAR,8)=ADDJVBLS((2*NUMVAR)+102);
CLASSWORKER(NEWYEAR,9)=ADDJVBLS((3*NUMVAR)+102);
CLASSWORKER(NEWYEAR,10)=ADDJVBLS((4*NUMVAR)+102);
HOURDAY(NEWYEAR,6)=ADDJVBLS(92);
HOURDAY(NEWYEAR,7)=ADDJVBLS(NUMVAR+92);
HOURDAY(NEWYEAR,8)=ADDJVBLS((2*NUMVAR)+92);
HOURDAY(NEWYEAR,9)=ADDJVBLS((3*NUMVAR)+92);
HOURDAY(NEWYEAR,10)=ADDJVBLS((4*NUMVAR)+92);
```

```
PAYRATE(NEWYEAR,6)=ADDJVBLS(105);
PAYRATE(NEWYEAR,7)=ADDJVBLS(NUMVAR+105);
PAYRATE(NEWYEAR,8)=ADDJVBLS((2*NUMVAR)+105);
PAYRATE(NEWYEAR,9)=ADDJVBLS((3*NUMVAR)+105);
PAYRATE(NEWYEAR,10)=ADDJVBLS((4*NUMVAR)+105);
TIMERATE(NEWYEAR,6)=ADDJVBLS(106);
TIMERATE(NEWYEAR,7)=ADDJVBLS(NUMVAR+106);
TIMERATE(NEWYEAR,8)=ADDJVBLS((2*NUMVAR)+106);
TIMERATE(NEWYEAR,9)=ADDJVBLS((3*NUMVAR)+106);
TIMERATE(NEWYEAR,10)=ADDJVBLS((4*NUMVAR)+106);
UNION(NEWYEAR,6)=ADDJVBLS(116);
UNION(NEWYEAR,7)=ADDJVBLS(NUMVAR+116);
UNION(NEWYEAR,8)=ADDJVBLS((2*NUMVAR)+116);
UNION(NEWYEAR,9)=ADDJVBLS((3*NUMVAR)+116);
UNION(NEWYEAR,10)=ADDJVBLS((4*NUMVAR)+116);
GOVTJOB(NEWYEAR,6)=-4;
GOVTJOB(NEWYEAR,7)=-4;
GOVTJOB(NEWYEAR,8)=-4;
GOVTJOB(NEWYEAR,9)=-4;
GOVTJOB(NEWYEAR,10)=-4;
N=20;
do J=6 to 10;
  if ADDJVBLS(N)>-4 then do;
    START(NEWYEAR,J)=WEEK(ADDJVBLS(N),ADDJVBLS(N+1),ADDJVBLS(N+2));
    STOP(NEWYEAR,J)=WEEK(ADDJVBLS(N+4),ADDJVBLS(N+5),ADDJVBLS(N+6));
  end;
  N=N+117;
end;
N=23;
do J=6 to 10;
  CURRENT(NEWYEAR,J)=ADDJVBLS(N);
  WHYLEFT(NEWYEAR,J)=ADDJVBLS(N+4);
  if ADDJVBLS(N+74)=-4 then HOURSWEEK(NEWYEAR,J)=ADDJVBLS(N+71);
  else if ADDJVBLS(N+71)>-4 then HOURSWEEK(NEWYEAR,J)=ADDJVBLS(N+71);
  WEEKSNOTWORKED(NEWYEAR,J)=ADDJVBLS(N+7);
  PAST(NEWYEAR,J)=ADDJVBLS(N-6);
  P=N;
  do K=1 to 2;
    if ADDJVBLS(P+8)>-4 then do;
      PERIODSTART(NEWYEAR,J,K)=
        WEEK(ADDJVBLS(P+9),ADDJVBLS(P+10),ADDJVBLS(P+11));
      PERIODSTOP(NEWYEAR,J,K)=
        WEEK(ADDJVBLS(P+12),ADDJVBLS(P+13),ADDJVBLS(P+14));
    end;
    REASON(NEWYEAR,J,K)=ADDJVBLS(P+15);
    ALL(NEWYEAR,J,K)=ADDJVBLS(P+16);
    LOOK(NEWYEAR,J,K)=ADDJVBLS(P+20);
    P=P+15;
  end;
  N=N+117;
end;
end;

/* set invalid missing for class of worker for #5459 */
if ID=5459 then CLASSWORKER(NEWYEAR,6)=-3;
```

```
 end NEWVARIABLES;

1WEEK:PROC(MONTH,DAY,YEAR) RETURNS(float dec);
/******* The purpose of the week function is to take a date passed to it and to convert that date into a week
         number relative to 1-1-78.  Note that dates prior to 1-1-78 are assigned to week 0, missing days are
         assigned to day 15 of the month and a '-3' is returned if the date is not valid. ********/
dcl (MONTH,DAY,YEAR) float dec(6);
dcl MON(12) float dec(6) INIT(0,31,59,90,120,151,181,212,243,273,304,334);
if YEAR>0 & YEAR<MAXYEAR then MAXYEAR=YEAR;
if YEAR>0 & YEAR<78 then RETURN(0);
else if MONTH>0 & YEAR>0 & DAY<0 then DAY=15;
if MONTH>0 & MONTH<=12 & DAY>0 & DAY<32 & YEAR>=78 & YEAR<97 then do;
  LEAP=0;
  if YEAR>=80 then do;
    LEAP=CEIL((YEAR-80)/4);
    if MOD(YEAR,4)=0 & MONTH>2 then LEAP=LEAP+1;
  end;
  RETURN(((YEAR-78) *365 + MON(MONTH) + DAY + LEAP)/7);
end;
else RETURN(-3);
end WEEK;

1CALC: PROC(YR);
dcl YR float dec(6);
dcl CODE float dec(6);
CODE=-4;
LASTINT_JOBS(YR)=0;
do J=1 to 10;
  FLAG=0;
  if START(YR,J)>-4 | STOP(YR,J)>-4 then do;
    LASTINT_JOBS(YR)=LASTINT_JOBS(YR)+1;
    NUMBER(YR,J)=YR*100+J;
    HOURLYWAGE(YR,J)=HRP(J);
    if PAST(YR,J)=1 | PAST(YR,J)=2 then START(YR,J)=LASTINT(YR);
    if CURRENT(YR,J)=1 then STOP(YR,J)=INT(YR);
    else if STOP(YR,J)>0 & STOP(YR,J)>INT(YR) then STOP(YR,J)=INT(YR);
    if START(YR,J)>=0 & STOP(YR,J)>=START(YR,J) then do;
      START(YR,J)=CEIL(START(YR,J));
      STOP(YR,J)=CEIL(STOP(YR,J));
      TENURE(YR,J)=STOP(YR,J) - START(YR,J) + 1;
      call FILL(START(YR,J),STOP(YR,J),NUMBER(YR,J),HOURSWEEK(YR,J));
    end;
    else TENURE(YR,J)=-3;
    FLAG=1;
    if WEEKSNOTWORKED(YR,J)^=0 & WEEKSNOTWORKED(YR,J)^=-4 then do K=1 to 4;
      if PERIODSTOP(YR,J,K)>=0 & PERIODSTOP(YR,J,K)>INT(YR) then
        PERIODSTOP(YR,J,K)=INT(YR);
      if PERIODSTART(YR,J,K)>=0 & PERIODSTOP(YR,J,K)>=PERIODSTART(YR,J,K)
        then do;
        if REASON(YR,J,K)=2 then CODE=4;
        else if REASON(YR,J,K)>0 then do;
          if REASON(YR,J,K)^=3 & REASON(YR,J,K)^=4 then CODE=5;
          else do;
            if ALL(YR,J,K)=1 then CODE=5;
            else if ALL(YR,J,K)=3 then CODE=4;
            else if ALL(YR,J,K)=2 & LOOK(YR,J,K)>=0 then do;
```

```
        CODE=9;
         #WEEKS=LOOK(YR,J,K);
       end;
       else CODE=2;
     end;
   end;
   else CODE=2;
   call FILL(PERIODSTART(YR,J,K),PERIODSTOP(YR,J,K),CODE,HOURSWEEK(YR,J));
  end;
  else if K=1 then call FILL(START(YR,J),STOP(YR,J),3,HOURSWEEK(YR,J));
 end;
 if PREVIOUSEMP#(YR,J)>0 then do;
  if TENURE(YR,J)>0 & OLDHIST.OJOB(PR,PREVIOUSEMP#(YR,J),46)>0 then
  TENURE(YR,J)=TENURE(YR,J)+OLDHIST.OJOB(PR,PREVIOUSEMP#(YR,J),46);
   else TENURE(YR,J)=-3;
 end;
 if PRETEN(YR,J)>-4 then do;
   if TENURE(YR,J)>=0 & PRETEN(YR,J)>=0 then
     TENURE(YR,J)=TENURE(YR,J) + 4.3 * PRETEN(YR,J);
   else TENURE(YR,J)=-3;
  end;
 if TENURE(YR,J)<0 then TENURE(YR,J)=-3;
  else TENURE(YR,J)=FLOOR(TENURE(YR,J) + .5);
 end;
end;
FLAG=0;
do K=1 to 6;
  if BSTOP(YR,K)>=0 & BSTOP(YR,K)>INT(YR) then BSTOP(YR,K)=INT(YR);
  if BSTART(YR,K)>=0 & BSTOP(YR,K)>=BSTART(YR,K) then do;
    if BALL(YR,K)=1 then CODE=5;
    else if BALL(YR,K)=3 then CODE=4;
    else if BALL(YR,K)=2 & BLOOK(YR,K)>=0 then do;
      CODE=9;
      #WEEKS=BLOOK(YR,K);
    end;
    else CODE=2;
    call FILL(BSTART(YR,K),BSTOP(YR,K),CODE,0);
  end;
end;
PR=YR;
end CALC;

1FILL:PROC(WEEK_BEGAN,WEEK_ENDED,COD,HOURS);
dcl (WEEK_BEGAN,WEEK_ENDED,COD,HOURS) float dec;
if HOURS<0 then HOURS=-3;
else if HOURS=99 | HOURS=98 | HOURS=97 then HOURS=-3;
FILLER=0;WEEK_BEGAN=CEIL(WEEK_BEGAN);WEEK_ENDED=CEIL(WEEK_ENDED);
if WEEK_BEGAN>=0 & WEEK_ENDED>=WEEK_BEGAN then do F=WEEK_BEGAN to WEEK_ENDED;
  JJ = 1;
  if A(F)>100 & COD>100 &
  PR*100+PREVIOUSEMP#((FLOOR(COD/100)),(MOD(COD,100)))
  ^=A(F) then do;
    DUP=0;
    if DUALJOB(F,1)>0 then do;
      KK = 1;
      do WHILE ((KK <= 4) & (DUALJOB(F,KK) ^= 0));
```

```
      if PR*100+PREVIOUSEMP#((FLOOR(COD/100)),(MOD(COD,100)))=
         DUALJOB(F,KK) then DUP=1;
      KK = KK + 1;
     end;
   end;
  if DUP=0 then do;
    if HOURS>0 & HOUR(F)>=0 then do;
      HOUR(F)=HOUR(F) + HOURS;
      if HOUR(F)>96 then HOUR(F)=96;
     end;
    else if HOUR(F)<96 then HOUR(F)=-3;
    if (MOD(COD,100)) = 0 | (MOD(COD,100)) > 10 then do;
      put file(sysprint)
        edit('*** (error) IN CREATING DUALJOB> ID = ',ID, '...COD = ',COD)
            (skip(1),A,F(7,0),A,F(7,0));
     end;
    else do;
      KK = 1;
      do WHILE (KK <= 4);
        if DUALJOB(F,KK) = 0 then do;
          if KK > 1 then do;
            DUALJOB(F,KK) = DUALJOB(F,KK-1);
            DUALJOB(F,KK-1) = COD;
           end;
          else DUALJOB(F,1) = COD;
          KK = 9;
         end;
        KK = KK + 1;
       end;
     end;
   end;
 end;
else if DUALJOB(F,1)=0 & (FLAG=1 | A(F)<100) then do;
  if COD=9 then do;
    if HOURS>0 & HOUR(F)>0 & (HOUR(F) - HOURS>=0) then HOUR(F)=HOUR(F) - HOURS;
    else if HOURS>0 then HOUR(F)=0;
    else HOUR(F)=HOURS;
    if FILLER<#WEEKS & F>(WEEK_ENDED-WEEK_BEGAN-#WEEKS)/2 + WEEK_BEGAN
      then do;
      A(F)=4;
      FILLER=FILLER+1;
     end;
    else if A(F)^=4 then A(F)=5;
   end;
  else if (A(F)^=4 | COD>100) then do;
    A(F)=COD;
    if COD>100 then HOUR(F)=HOURS;
    else if HOURS>0 & COD^=3 then HOUR(F)=0;
    else HOUR(F)=HOURS;
   end;
 end;
else if DUALJOB(F,1)>0
  & FLAG=1 & (COD=2 | COD=4 | COD=5 | COD=9) then do;
  KK = 1;
  do WHILE (KK <= 4);
    if DUALJOB(F,KK) = 0 then do;
```

```
      if KK > 1 then DUALJOB(F,KK-1) = 0;
        KK = 9;
      end;
      KK = KK + 1;
      if KK = 5 then DUALJOB(F,4) = 0;
    end;
    if HOURS>0 & HOUR(F)>0 & (HOUR(F) - HOURS >=0)
      then HOUR(F)=HOUR(F) - HOURS;
    else if HOURS>0 then HOUR(F)=0;
    else HOUR(F)=HOURS;
  end;
end;
end FILL;

1SUMMER:PROC(YEAR);
dcl YEAR float dec;
CALENDAR_YEAR_SUM(YEAR)=0;
WORKL(YEAR),HOURL(YEAR),WOLFL(YEAR),WUMPL(YEAR),MISSL(YEAR), NWMISSL(YEAR)=0;
do K=LASTINT(YEAR) to INT(YEAR);
  if (k<=0) then put file(sysprint)
      edit('#error: Proc SUMMER: out of range value. ', K)
        (skip(1),A,F(10));
  if A(K)>100 then do;
    WORKL(YEAR)=WORKL(YEAR)+1;
    if HOURL(YEAR)^=-3 & HOUR(K)>0 then HOURL(YEAR)=HOURL(YEAR)+HOUR(K);
    else HOURL(YEAR)=-3;
  end;
  else if A(K)=4 then do;
    if WUMPL(YEAR)^=-3 then WUMPL(YEAR)=WUMPL(YEAR)+1;
  end;
  else if A(K)=2 then do;
    NWMISSL(YEAR)=NWMISSL(YEAR)+1;
    WUMPL(YEAR),WOLFL(YEAR)=-3;
  end;
  else if A(K)=5 | A(K)=7 then do;
    if WOLFL(YEAR)^=-3 then WOLFL(YEAR)=WOLFL(YEAR)+1;
  end;
  else if A(K)=3 then do;
    WORKL(YEAR)=WORKL(YEAR)+1;
    MISSL(YEAR)=MISSL(YEAR)+1;
    if HOURL(YEAR)^=-3 & HOUR(K)>0 then HOURL(YEAR)=HOURL(YEAR)+HOUR(K);
    else HOURL(YEAR)=-3;
    WUMPL(YEAR),WOLFL(YEAR)=-3;
  end;
  else do;
    MISSL(YEAR)=MISSL(YEAR)+1;
    WOLFL(YEAR),WUMPL(YEAR)=-3;
  end;
end;
SUMOUT:WBID(YEAR)=INT(YEAR)-LASTINT(YEAR)+1;
dcl PICKJOB float dec(6);
do K=1+(YEAR-1)*52 to YEAR*52;
  if A(K)>100 then do;
    WORKC(YEAR)=WORKC(YEAR)+1;
    if HOURC(YEAR)^=-3 & HOUR(K)>0 then HOURC(YEAR)=HOURC(YEAR)+HOUR(K);
    else HOURC(YEAR)=-3;
```

```
  if CAL_YEAR_JOBS(YEAR)=0 then do;
    CAL_YEAR_JOBS(YEAR)=CAL_YEAR_JOBS(YEAR)+1;
    CAL_YEAR_JOB#(YEAR,CAL_YEAR_JOBS(YEAR))=A(K);
  end;
  else do;
    do J=CAL_YEAR_JOBS(YEAR) to 1 by -1;
      if FLOOR(A(K)/100) < YEAR then
        PICKJOB=OLDHIST.OJOB(FLOOR(A(K)/100),MOD(A(K),100),43);
        else PICKJOB=PREVIOUSEMP#(FLOOR(A(K)/100),MOD(A(K),100));
      if A(K)=CAL_YEAR_JOB#(YEAR,J) | PR*100 + PICKJOB
        =CAL_YEAR_JOB#(YEAR,J) then go to NOCOUNT;
    end;
    CAL_YEAR_JOBS(YEAR)=CAL_YEAR_JOBS(YEAR)+1;
    CAL_YEAR_JOB#(YEAR,CAL_YEAR_JOBS(YEAR))=A(K);
  end;
  NOCOUNT:
 end;
 else if A(K)=4 then do;
  if WUMPC(YEAR)^=-3 then WUMPC(YEAR)=WUMPC(YEAR)+1;
 end;
 else if A(K)=2 then do;
   NWMISSC(YEAR)=NWMISSC(YEAR)+1;
   WUMPC(YEAR),WOLFC(YEAR)=-3;
 end;
 else if A(K)=5 | A(K)=7 then do;
   if WOLFC(YEAR)^=-3 then WOLFC(YEAR)=WOLFC(YEAR)+1;
   if A(K)=7 & MILWKSC(YEAR)>=0 then MILWKSC(YEAR)=MILWKSC(YEAR)+1;
 end;
 else if A(K)=3 then do;
   WORKC(YEAR)=WORKC(YEAR)+1;
   MISSC(YEAR)=MISSC(YEAR)+1;
   if HOURC(YEAR)^=-3 & HOUR(K)>0 then HOURC(YEAR)=HOURC(YEAR)+HOUR(K);
   else HOURC(YEAR)=-3;
   WUMPC(YEAR),WOLFC(YEAR)=-3;
 end;
 else do;
   MISSC(YEAR)=MISSC(YEAR)+1;
   WOLFC(YEAR),WUMPC(YEAR)=-3;
 end;
end;
if MILWKSC(YEAR)=0 then MILWKSC(YEAR)=-4;
CALOUT:
MISSL(YEAR)=FLOOR((MISSL(YEAR)/(INT(YEAR)-LASTINT(YEAR)+1)*100));
NWMISSL(YEAR)=FLOOR((NWMISSL(YEAR)/(INT(YEAR)-LASTINT(YEAR)+1)*100));
MISSC(YEAR)=FLOOR((MISSC(YEAR)/52)*100);
NWMISSC(YEAR)=FLOOR((NWMISSC(YEAR)/52)*100);
end SUMMER;

HRP:PROC(JOBNO) RETURNS(float dec(6));  /* modified 1/09/93 */
dcl (JOBNO) fixed bin(15);
if PAYRATE(NEWYEAR,JOBNO)>0 & TIMERATE(NEWYEAR,JOBNO)>0 then do;
 if PAYRATE(NEWYEAR,JOBNO)=9999995 then RETURN(-4);
  else if TIMERATE(NEWYEAR,JOBNO)=1 then RETURN(PAYRATE(NEWYEAR,JOBNO));
  else if TIMERATE(NEWYEAR,JOBNO)=2 & HOURDAY(NEWYEAR,JOBNO)>0 then
    RETURN((FLOOR(PAYRATE(NEWYEAR,JOBNO)/HOURDAY(NEWYEAR,JOBNO))));
  else if TIMERATE(NEWYEAR,JOBNO)>=3 & TIMERATE(NEWYEAR,JOBNO)<7 &
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      HOURSWEEK(NEWYEAR,JOBNO)>0
       then do;
       if TIMERATE(NEWYEAR,JOBNO)=3 then
        RETURN((FLOOR(PAYRATE(NEWYEAR,JOBNO)/HOURSWEEK(NEWYEAR,JOBNO))));
       else if TIMERATE(NEWYEAR,JOBNO)=4 then
        RETURN((FLOOR(PAYRATE(NEWYEAR,JOBNO)/ (HOURSWEEK(NEWYEAR,JOBNO)*2))));
       else if TIMERATE(NEWYEAR,JOBNO)=5 then
        RETURN((FLOOR(PAYRATE(NEWYEAR,JOBNO)/ (HOURSWEEK(NEWYEAR,JOBNO)*4.3))));
       else if TIMERATE(NEWYEAR,JOBNO)=6 then
        RETURN((FLOOR(PAYRATE(NEWYEAR,JOBNO)/ (HOURSWEEK(NEWYEAR,JOBNO)*52))));
       else if TIMERATE(NEWYEAR,JOBNO)=8 then
        RETURN((FLOOR(PAYRATE(NEWYEAR,JOBNO)/ (HOURSWEEK(NEWYEAR,JOBNO)*2.15))));
      end;
      else RETURN(-4);
    end;
   else RETURN(-4);
   end HRP;
   done:
     /***** TEMPORARY DUMP OF NEW VAR 7/22/91 *****/
     /* do i = 1 to newyear-1;
        put file(sysprint) edit('ojobever(',i,')= ',oldhist(i).ojobever)          (skip(1),a,f(2),a,f(10));
      end;
     put file(sysprint) edit('jobever(newyear)= ',jobever(newyear))         (skip(1),a,f(10));    */
     put file(sysprint) edit(' NUMBER OF RECORDS read from WORKTAP =',kount)          (skip(2),A,F(7,0));
     put file(sysprint) edit(' # OF RECORDS read from VARSNYR =',kountnew)          (skip(2),A,F(7,0));
     put file(sysprint) edit(' # OF RECORDS read from ADDJOBS =',kountadd)          (skip(2),A,F(7,0));
     put file(sysprint) edit(' # OF RECORDS read from TABLE  =',TBL_CNT)          (skip(2),A,F(7,0));
     put file(sysprint) edit(' WORK HISTORY RECORDS WRITTEN out =',kount_out)          (skip(2),A,F(7,0));
     put file(sysprint) edit(' EXTRA WORK RECORDS WRITTEN out  =',kount_XVR)          (skip(2),A,F(7,0));
     put file(sysprint) edit(' # OF CURRENT YEAR ZERO WEIGHT CASES =',WTZERO)    (skip(2),A,F(7,0));
   end DMPDATA;
   /** NEWWORK: LRECL = (39184 - 9520) = 29664 **/  /** XVAR = 9520  (793*6*2+4 including ID) **/


/***************************************************1993*******************************************/
DMPDATA: PROC options(MAIN);
default RANGE(I:N) float;
dcl WORKTAP file record input;          /* current work history tape  */
dcl VARSNYR file stream input;          /* new year data-9011 cases, inc. wt */
dcl IDTABLE file stream input;          /* cross-walk of ID's */
/* dcl addjobs file record input; /  new year add jobs file  */
/* dcl wts    file stream input;  wts  w/norc ids */
dcl NEWWORK file record output;          /* writes new updated work history tape */
dcl OUTDISK file stream output;          /* writes 93 key vars file on disk */
dcl (MOD,FLOOR,CEIL,SUBSTR) BUILTIN, sysprint file;
dcl ENDVARS fixed bin(15);
dcl (OLDA,ALIM,J,K,KK,JJ,N,I,NUMVAR) fixed bin(15);
dcl (NA,DK,NEWYEAR,MAX,MAXYEAR,MAXDUAL,MAXINT,PR,SURVEY_YR,
   P,LEAP,FILLER,F,DUP,DUA,DIV,FLAG,#WEEKS,WTID,WTYR) float dec(6);
dcl(kount,kountadd,kountnew,kountold,kount_out,kount_XVR) fixed bin(15);
dcl (kountfix,WTZERO,TBL_CNT) fixed bin(15);
on endfile(WORKTAP) go to done;
on endfile(VARSNYR) ENDVARS=1;
on error go to done;
OLDA=792; ALIM=844; NEWYEAR=15; SURVEY_YR=93; /* note: update this line for arrays limit & year */
dcl 1 IDTBLE,
```

```
    2 TABLE_ID  float dec(6),
    2 NORCIDS   float dec(6);
dcl 1 STRUCTIN,                        /*current workhistory record */
    2 INFO(10)        float dec(6),    /* ID and birthdates from 1979 and 1981        */
    2 ARRAY1(0:792)    fixed bin(15,0),
    2 ARRAY2(0:792)    fixed bin(15,0),
    2 ARRAY3(0:792,4)   fixed bin(15,0),
    2 HISTYRS(14),
     5 OWT            float dec(6),
     5 OLASTINT         float dec(6),
     5 OINT           float dec(6),
     5 OINTM           float dec(6),
     5 OINTD           float dec(6),
     5 OINTY           float dec(6),
     5 OJOB(5,47)       float dec(6),    /* 5 possible job, 47 vars for each.  See 1993 work  */
                                         /* history (newyear:newyear) below.           */
     5 OBTWNJOBS(6,5)    float dec(6),  /* 6 possible btwn-jobs gaps. */
                                         /* See between jobs (6) for 1993 vars below.         */
     5 OMILIT(6)        float dec(6),    /* 6 military vars.  See military (6) for 1993 vars below.  */
     5 OCALENDAR(12)     float dec(6),  /* 17 calendar year vars. See */
                                         /* calendar year_sum for 1993 vars below.            */
     5 OLASTSUM(8)       float dec(6),   /* 8 vars from last int. See  */
                                         /* lastint_sum for 1993 vars below.              */
     5 OJOBEVER         float dec(6);    /* number of jobs ever reprtd by R at int date. see 1993  */
dcl CPS_HOURLYWAGE(15) float dec(6);
dcl 1 VARIABLES,
    2 ID            float dec(6),        /* ID number of respondent, X(1) */
    2 SAMPLE_ID      float dec(6),       /* sample type, X(1561) */
    2 SEX          float dec(6),
    2 RACE         float dec(6),
    2 BIRTHM_79      float dec(6),
    2 BIRTHD_79      float dec(6),
    2 BIRTHY_79      float dec(6),
    2 BIRTHM_81       float dec(6),
    2 BIRTHD_81       float dec(6),
    2 BIRTHY_81       float dec(6),
    2 A(0:844)       fixed bin(15,0),
    2 HOUR(0:844)      fixed bin(15,0),
    2 DUALJOB(0:844,4)  fixed bin(15,0),
    2 OLDHIST(14),
     5 OWT          float dec(6),
     5 OLASTINT       float dec(6),
     5 OINT         float dec(6),
     5 OINTM          float dec(6),
     5 OINTD          float dec(6),
     5 OINTY          float dec(6),
     5 OJOB(5,47)    float dec(6),
     5 OBTWNJOBS(6,5) float dec(6),
     5 OMILIT(6)      float dec(6),
     5 OCALENDAR(12)  float dec(6),
     5 OLASTSUM(8)    float dec(6),
     5 OJOBEVER      float dec(6),
    2 WORK_HISTORY_5JOB(15:15),
     5 WEIGHT,                         /* sampling weight   */
     5 LASTINT,                        /* week number of last interview */
     5 INT,                           /* week number of current interview */
```

```
5 INTM,                         /* month of the interview */
5 INTD,                         /* day of the interview */
5 INTY,                         /* year of the interview */
5 JOB(5),                       /* 10 possible jobs for each interview */
  10 START,                     /* starting week of the job */
  10 STARTM,                    /* starting month of the job */
  10 STARTD,                    /* starting day of the job */
  10 STARTY,                    /* starting year of the job */
  10 STOP,                      /* stopping week of the job */
  10 STOPM,                     /* stopping month of the job */
  10 STOPD,                     /* stopping day of the job */
  10 STOPY,                     /* stopping year of the job */
  10 PAST,                      /* has R worked at job before last interview */
  10 CURRENT,                   /* working at job at interview date */
  10 WHYLEFT,                   /* reason left job if not currently working */
  10 CPSJOB,                    /* is this job same as the cps job */
  10 HOURSWEEK,                 /* usual hours per week at this job */
  10 OCCUPATION,                /* usual occupation at this job */
  10 INDUSTRY,                  /* usual industry at this job */
  10 CLASSWORKER,               /* class of worker at this job */
  10 HOURDAY,                   /* usual hours per day worked at this job */
  10 PAYRATE,                   /* usual wage or salary at this job */
  10 TIMERATE,                  /* time unit to interpret payrate */
  10 HOURLYWAGE,                /* usual wage converted to hourly wage */
  10 UNION,                     /* wages set by collective bargaining */
  10 GOVTJOB,                   /* is this job government-sponsored */
  10 WEEKSNOTWORKED,            /* any weeks not working at this job */
  10 PERIOD_IN_JOB(4),          /* information on each period not working */
    15 PERIODSTART,             /* starting wk number of period not working */
    15 PERIODSTOP,              /* stopping wk number of period not working */
    15 REASON,                  /* reason not working for this period */
    15 ALL,                     /* how much time unemployed in this period */
    15 LOOK,                    /* number of weeks unemployed in this period */
  10 PREVIOUSEMP#,              /* job number of employer from last int */
  10 PRETEN,                    /* months worked for employer before lastint */
  10 TENURE,                    /* total weeks tenure as of interview date */
  10 NUMBER,                    /* job number which is loaded into 'A' array */
5 BETWEEN_JOBS(6),             /* information about periods not working between jobs and military
     service */
  10 BSTART,                    /* week started this period not working */
  10 BSTOP,                     /* week stopped this period not working */
  10 BALL,                      /* how much of period not worked unemployed */
  10 BLOOK,                     /* number of weeks unemployed in this period */
  10 BREASON,                   /* reason not looking for work this period */
5 MILITARY,                     /* information about active military service */
  10 MSTART1,                   /* starting week of first period of service */
  10 MSTART2,                   /* starting week of second period of service */
  10 MSTOP1,                    /* stopping week of first period of service */
  10 MSTOP2,                    /* stopping week of second period of service */
  10 MILWKSL,                   /* weeks active military service as of int */
  10 MILWKSC,                   /* weeks active military service in the calendar year */
5 CALENDAR_YEAR_SUM,            /* key variables for the calendar year */
  10 WORKC,                     /* weeks worked in the calendar year */
  10 HOURC,                     /* hours worked in the calendar year */
  10 WUMPC,                     /* weeks unemployed in the calendar year */
  10 WOLFC,                     /* weeks out of labor force in calendar year */
```

```
      10 CAL_YEAR_JOBS,              /* number of jobs in the calendar year */
      10 CAL_YEAR_JOB#(5),          /* job numbers in the calendar year */
      10 MISSC,                     /* % of weeks unaccounted for in year */
      10 NWMISSC,                   /* % weeks not employed that can't be split */
    5 LASTINT_SUM,                  /* key variables calculated since last int */
      10 LASTINT_JOBS,              /* number of jobs since last interview */
      10 WORKL,                     /* number of weeks worked since last int */
      10 HOURL,                     /* number of hours worked since last int */
      10 WUMPL,                     /* number of weeks unemployed since last int */
      10 WOLFL,                     /* weeks out of labor force since last int */
      10 WBID,                      /* number of weeks since last int */
      10 MISSL,                     /* % of weeks unaccounted for since last int */
      10 NWMISSL,                   /* % weeks not employed that can't be split */
      10 JOBEVER;                   /* number of different jobs ever held */
dcl 1 WORK_HISTORY(15:15),
    5 WEIGHT,                       /* sampling weight   */
    5 LASTINT,                      /* week number of last interview */
    5 INT,                         /* week number of current interview */
    5 INTM,                        /* month of the interview */
    5 INTD,                        /* day of the interview */
    5 INTY,                        /* year of the interview */
    5 JOB(10),                     /* 10 possible jobs for each interview */
      10 START,                    /* starting week of the job */
      10 STARTM,                   /* starting month of the job */
      10 STARTD,                   /* starting day of the job */
      10 STARTY,                   /* starting year of the job */
      10 STOP,                     /* stopping week of the job */
      10 STOPM,                    /* stopping month of the job */
      10 STOPD,                    /* stopping day of the job */
      10 STOPY,                    /* stopping year of the job */
      10 PAST,                     /* has R worked at job before last interview */
      10 CURRENT,                  /* working at job at interview date */
      10 WHYLEFT,                  /* reason left job if not currently working */
      10 CPSJOB,                   /* is this job same as the cps job */
      10 HOURSWEEK,                /* usual hours per week at this job */
      10 OCCUPATION,               /* usual occupation at this job */
      10 INDUSTRY,                 /* usual industry at this job */
      10 CLASSWORKER,              /* class of worker at this job */
      10 HOURDAY,                  /* usual hours per day worked at this job */
      10 PAYRATE,                  /* usual wage or salary at this job */
      10 TIMERATE,                 /* time unit to interpret payrate */
      10 HOURLYWAGE,               /* usual wage converted to hourly wage */
      10 UNION,                    /* wages set by collective bargaining */
      10 GOVTJOB,                  /* is this job government-sponsored */
      10 WEEKSNOTWORKED,           /* any weeks not working at this job */
      10 PERIOD_IN_JOB(4),         /* information on each period not working */
        15 PERIODSTART,            /* starting wk number of period not working */
        15 PERIODSTOP,             /* stopping wk number of period not working */
        15 REASON,                 /* reason not working for this period */
        15 ALL,                    /* how much time unemployed in this period */
        15 LOOK,                   /* number of weeks unemployed in this period */
      10 PREVIOUSEMP#,             /* job number of employer from last int */
      10 PRETEN,                   /* months worked for employer before lastint */
      10 TENURE,                   /* total weeks tenure as of interview date */
      10 NUMBER,                   /* job number which is loaded into 'A' array */
    5 BETWEEN_JOBS(6),             /* information about periods not working between jobs and military
```

```
       service */
    10 BSTART,                        /* week started this period not working */
    10 BSTOP,                         /* week stopped this period not working */
    10 BALL,                          /* how much of period not worked unemployed */
    10 BLOOK,                         /* number of weeks unemployed in this period */
    10 BREASON,                       /* reason not looking for work this period */
  5 MILITARY,                         /* information about active military service */
    10 MSTART1,                       /* starting week of first period of service */
    10 MSTART2,                       /* starting week of second period of service */
    10 MSTOP1,                        /* stopping week of first period of service */
    10 MSTOP2,                        /* stopping week of second period of service */
    10 MILWKSL,                       /* weeks active military service as of int */
    10 MILWKSC,                       /* weeks active military service in the calendar year */
  5 CALENDAR_YEAR_SUM,                /* key variables for the calendar year */
    10 WORKC,                         /* weeks worked in the calendar year */
    10 HOURC,                         /* hours worked in the calendar year */
    10 WUMPC,                         /* weeks unemployed in the calendar year */
    10 WOLFC,                         /* weeks out of labor force in calendar year */
    10 CAL_YEAR_JOBS,                 /* number of jobs in the calendar year */
    10 CAL_YEAR_JOB#(10),             /* job numbers in the calendar year */
    10 MISSC,                         /* % of weeks unaccounted for in year */
    10 NWMISSC,                       /* % weeks not employed that can't be split */
  5 LASTINT_SUM,                      /* key variables calculated since last int */
    10 LASTINT_JOBS,                  /* number of jobs since last interview */
    10 WORKL,                         /* number of weeks worked since last int */
    10 HOURL,                         /* number of hours worked since last int */
    10 WUMPL,                         /* number of weeks unemployed since last int */
    10 WOLFL,                         /* weeks out of labor force since last int */
    10 WBID,                          /* number of weeks since last int */
    10 MISSL,                         /* % of weeks unaccounted for since last int */
    10 NWMISSL,                       /* % weeks not employed that can't be split */
    10 JOBEVER;                       /* number of different jobs ever held */

 NA=-4; DK=-3; TEMCNT = 0; CAPI_ID=0; TABLE_ID=0; ENDVARS=0; /* eof flag for varsnyr */
 kount=0; /* kountadd=0; */ kountnew=0; kountold=0; kount_out=0; kount_XVR=0; kountfix=0; WTZERO=0;
        MAX=0; MAXYEAR=100; MAXDUAL=0; MAXINT=0;
1READ1:  read file (WORKTAP) into (STRUCTIN);
  kount=kount+1;
  ID=INFO(1);
  SAMPLE_ID=INFO(2);
  SEX=INFO(3);
  RACE=INFO(4);
  BIRTHM_79=INFO(5);       BIRTHD_79=INFO(6);       BIRTHY_79=INFO(7);
  BIRTHM_81=INFO(8);       BIRTHD_81=INFO(9);       BIRTHY_81=INFO(10);
  A=0; HOUR=0; DUALJOB=0;

  do J=0 to OLDA;  /* copy old array info into the current array struct */
   A(J)=ARRAY1(J); HOUR(J)=ARRAY2(J);
   do K = 1 to 4;
     DUALJOB(J,K) = ARRAY3(J,K);
   end;
  end;

  OLDHIST=HISTYRS, by NAME;
 /* no hand edits for 1993 only - correct past errors */
```

```
 if ( (TABLE_ID < ID) & (ENDVARS=0)) then do;
   do WHILE ( (TABLE_ID<ID) & (ENDVARS=0) );
     get file (IDTABLE) edit(TABLE_ID,NORCIDS) (COL(5),F(5),COL(12),F(7));
     TBL_CNT=TBL_CNT+1;
   end;
   if ( (CAPI_ID < NORCIDS) & (ENDVARS=0) ) then do;
     %INCLUDE WHCROSS;

/*BEGIN% INCLUDE SYSLIB (WHCROSS) *****************************************/
dcl CAPI_ID       float dec(6);  /* caseid          */
get file(VARSNYR) edit(CAPI_ID )(COL( 1),F(6)); get file(VARSNYR) edit(Q_1C_A   )(COL( 7),F(2));
get file(VARSNYR) edit(Q_1C_B   )(COL( 9),F(2)); get file(VARSNYR) edit(Q_1C_C   )(COL(11),F(2));
get file(VARSNYR) edit(Q4_1A    )(COL(13),F(2)); get file(VARSNYR) edit(Q4_1B    )(COL(15),F(2));
get file(VARSNYR) edit(Q4_5A    )(COL(17),F(2)); get file(VARSNYR) edit(Q4_6_A   )(COL(19),F(2));
get file(VARSNYR) edit(Q4_6_B   )(COL(21),F(2)); get file(VARSNYR) edit(Q4_6A_A  )(COL(23),F(2));
get file(VARSNYR) edit(Q4_6A_B  )(COL(25),F(2)); get file(VARSNYR) edit(Q4_6A_C  )(COL(27),F(2));
get file(VARSNYR) edit(Q4_9     )(COL(29),F(2)); get file(VARSNYR) edit(Q4_9A    )(COL(31),F(2));
get file(VARSNYR) edit(Q4_9A1   )(COL(33),F(2)); get file(VARSNYR) edit(Q4_9B    )(COL(35),F(2));
get file(VARSNYR) edit(Q4_9B1   )(COL(37),F(2)); get file(VARSNYR) edit(Q4_10   )(COL(39),F(2));
get file(VARSNYR) edit(Q4_11   )(COL(41),F(2)); get file(VARSNYR) edit(Q4_11A_A)(COL(43),F(2));
get file(VARSNYR) edit(Q4_11A_B )(COL(45),F(2)); get file(VARSNYR) edit(Q4_11B_A )(COL(47),F(2));
get file(VARSNYR) edit(Q4_11B_B )(COL(49),F(2)); get file(VARSNYR) edit(Q4_11B_C )(COL(51),F(2));
get file(VARSNYR) edit(Q4_12   )(COL(53),F(2)); get file(VARSNYR) edit(Q4_12A   )(COL(55),F(2));
get file(VARSNYR) edit(Q4_12B_A )(COL(57),F(2)); get file(VARSNYR) edit(Q4_12B_B )(COL(59),F(2));
get file(VARSNYR) edit(Q4_12B_C )(COL(61),F(2)); get file(VARSNYR) edit(Q4_12C_A )(COL(63),F(2));
get file(VARSNYR) edit(Q4_12C_B )(COL(65),F(2)); get file(VARSNYR) edit(Q4_12C_C )(COL(67),F(2));
get file(VARSNYR) edit(Q4_13_A  )(COL(69),F(2)); get file(VARSNYR) edit(Q4_13_B  )(COL(71),F(2));
get file(VARSNYR) edit(Q4_13_C  )(COL(73),F(2)); get file(VARSNYR) edit(Q4_13A_A )(COL(75),F(2));
get file(VARSNYR) edit(Q4_13A_B )(COL(77),F(2)); get file(VARSNYR) edit(Q4_13A_C )(COL(79),F(2));
get file(VARSNYR) edit(Q6_52   )(COL(81),F(6)); get file(VARSNYR) edit(Q6_53    )(COL(87),F(6));
get file(VARSNYR) edit(Q6_56   )(COL(93),F(2)); get file(VARSNYR) edit(Q6_59    )(COL(95),F(3));
get file(VARSNYR) edit(Q6_62   )(COL(98),F(3)); get file(VARSNYR) edit(QES1_4B  )(COL(101),F(4));
get file(VARSNYR) edit(QES1_6   )(COL(105),F(2)); get file(VARSNYR) edit(QES1_8_A )(COL(107),F(2));
get file(VARSNYR) edit(QES1_8_B )(COL(109),F(2)); get file(VARSNYR) edit(QES1_8_C )(COL(111),F(2));
get file(VARSNYR) edit(QES1_8A_A)(COL(113),F(2)); get file(VARSNYR) edit(QES1_8A_B)(COL(115),F(2));
get file(VARSNYR) edit(QES1_8A_C)(COL(117),F(2)); get file(VARSNYR) edit(QES1_23  )(COL(119),F(2));
get file(VARSNYR) edit(QES1_23A )(COL(121),F(2)); get file(VARSNYR) edit(QES1_26_A)(COL(123),F(2));
get file(VARSNYR) edit(QES1_26_B)(COL(125),F(2)); get file(VARSNYR) edit(QES1_26_C)(COL(127),F(2));
get file(VARSNYR) edit(QES1_28  )(COL(129),F(2)); get file(VARSNYR) edit(QES1_30_1_A)(COL(131),F(2));
get file(VARSNYR) edit(QES1_30_1_B)(COL(133),F(2));
get file(VARSNYR) edit(QES1_30_1_C)(COL(135),F(2));
get file(VARSNYR) edit(QES1_31_1_A)(COL(137),F(2));
get file(VARSNYR) edit(QES1_31_1_B)(COL(139),F(2));
get file(VARSNYR) edit(QES1_31_1_C)(COL(141),F(2));
get file(VARSNYR) edit(QES1_30_2_A)(COL(143),F(2));
get file(VARSNYR) edit(QES1_30_2_B)(COL(145),F(2));
get file(VARSNYR) edit(QES1_30_2_C)(COL(147),F(2));
get file(VARSNYR) edit(QES1_31_2_A)(COL(149),F(2));
get file(VARSNYR) edit(QES1_31_2_B)(COL(151),F(2));
get file(VARSNYR) edit(QES1_31_2_C)(COL(153),F(2));
get file(VARSNYR) edit(QES1_30_3_A)(COL(155),F(2));
get file(VARSNYR) edit(QES1_30_3_B)(COL(157),F(2));
get file(VARSNYR) edit(QES1_30_3_C)(COL(159),F(2));
get file(VARSNYR) edit(QES1_31_3_A)(COL(161),F(2));
get file(VARSNYR) edit(QES1_31_3_B)(COL(163),F(2));
get file(VARSNYR) edit(QES1_31_3_C)(COL(165),F(2));
```

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get file(VARSNYR) edit(QES1_30_4_A)(COL(167),F(2));
get file(VARSNYR) edit(QES1_30_4_B)(COL(169),F(2));
get file(VARSNYR) edit(QES1_30_4_C)(COL(171),F(2));
get file(VARSNYR) edit(QES1_31_4_A)(COL(173),F(2));
get file(VARSNYR) edit(QES1_31_4_B)(COL(175),F(2));
get file(VARSNYR) edit(QES1_31_4_C)(COL(177),F(2));
get file(VARSNYR) edit(QES1_30_5_A)(COL(179),F(2));
get file(VARSNYR) edit(QES1_30_5_B)(COL(181),F(2));
get file(VARSNYR) edit(QES1_30_5_C)(COL(183),F(2));
get file(VARSNYR) edit(QES1_31_5_A)(COL(185),F(2));
get file(VARSNYR) edit(QES1_31_5_B)(COL(187),F(2));
get file(VARSNYR) edit(QES1_31_5_C)(COL(189),F(2));
get file(VARSNYR) edit(QES1_30_6_A)(COL(191),F(2));
get file(VARSNYR) edit(QES1_30_6_B)(COL(193),F(2));
get file(VARSNYR) edit(QES1_30_6_C)(COL(195),F(2));
get file(VARSNYR) edit(QES1_31_6_A)(COL(197),F(2));
get file(VARSNYR) edit(QES1_31_6_B)(COL(199),F(2));
get file(VARSNYR) edit(QES1_31_6_C)(COL(201),F(2));
get file(VARSNYR) edit(QES1_33_1)(COL(203),F(2)); get file(VARSNYR) edit(QES1_34_1)(COL(205),F(2));
get file(VARSNYR) edit(QES1_36_1)(COL(207),F(2)); get file(VARSNYR) edit(QES1_40_1)(COL(209),F(3));
get file(VARSNYR) edit(QES1_33_2)(COL(212),F(2)); get file(VARSNYR) edit(QES1_34_2)(COL(214),F(2));
get file(VARSNYR) edit(QES1_36_2)(COL(216),F(2)); get file(VARSNYR) edit(QES1_40_2)(COL(218),F(3));
get file(VARSNYR) edit(QES1_33_3)(COL(221),F(2)); get file(VARSNYR) edit(QES1_34_3)(COL(223),F(2));
get file(VARSNYR) edit(QES1_36_3)(COL(225),F(2)); get file(VARSNYR) edit(QES1_40_3)(COL(227),F(3));
get file(VARSNYR) edit(QES1_33_4)(COL(230),F(2)); get file(VARSNYR) edit(QES1_34_4)(COL(232),F(2));
get file(VARSNYR) edit(QES1_36_4)(COL(234),F(2)); get file(VARSNYR) edit(QES1_40_4)(COL(236),F(3));
get file(VARSNYR) edit(QES1_33_5)(COL(239),F(2)); get file(VARSNYR) edit(QES1_34_5)(COL(241),F(2));
get file(VARSNYR) edit(QES1_36_5)(COL(243),F(2)); get file(VARSNYR) edit(QES1_40_5)(COL(245),F(3));
get file(VARSNYR) edit(QES1_33_6)(COL(248),F(2)); get file(VARSNYR) edit(QES1_34_6)(COL(250),F(2));
get file(VARSNYR) edit(QES1_36_6)(COL(252),F(2)); get file(VARSNYR) edit(QES1_40_6)(COL(254),F(3));
get file(VARSNYR) edit(QES1_51  )(COL(257),F(2)); get file(VARSNYR) edit(QES1_52  )(COL(259),F(2));
get file(VARSNYR) edit(QES1_53A )(COL(261),F(3)); get file(VARSNYR) edit(QES1_53D )(COL(264),F(3));
get file(VARSNYR) edit(QES1_54A )(COL(267),F(2)); get file(VARSNYR) edit(QES1_56A )(COL(269),F(6));
get file(VARSNYR) edit(QES1_56B )(COL(275),F(3)); get file(VARSNYR) edit(QES1_57  )(COL(278),F(6));
get file(VARSNYR) edit(QES1_58A )(COL(284),F(2)); get file(VARSNYR) edit(QES1_76  )(COL(286),F(8));
get file(VARSNYR) edit(QES1_77  )(COL(294),F(2)); get file(VARSNYR) edit(QES1_80  )(COL(296),F(2));
get file(VARSNYR) edit(QES1_81  )(COL(298),F(2)); get file(VARSNYR) edit(QES1_82  )(COL(300),F(8));
get file(VARSNYR) edit(QES1_83  )(COL(308),F(2)); get file(VARSNYR) edit(QES1_84  )(COL(310),F(2));
get file(VARSNYR) edit(QES1_85  )(COL(312),F(2)); get file(VARSNYR) edit(QES1_86  )(COL(314),F(2));
get file(VARSNYR) edit(QES1_87  )(COL(316),F(2)); get file(VARSNYR) edit(QES1_88  )(COL(318),F(2));
get file(VARSNYR) edit(QES1_89  )(COL(320),F(2)); get file(VARSNYR) edit(QES2_4B  )(COL(322),F(4));
get file(VARSNYR) edit(QES2_6   )(COL(326),F(2)); get file(VARSNYR) edit(QES2_8_A )(COL(328),F(2));
get file(VARSNYR) edit(QES2_8_B )(COL(330),F(2)); get file(VARSNYR) edit(QES2_8_C )(COL(332),F(2));
get file(VARSNYR) edit(QES2_8A_A)(COL(334),F(2)); get file(VARSNYR) edit(QES2_8A_B)(COL(336),F(2));
get file(VARSNYR) edit(QES2_8A_C)(COL(338),F(2)); get file(VARSNYR) edit(QES2_23  )(COL(340),F(2));
get file(VARSNYR) edit(QES2_23A )(COL(342),F(2)); get file(VARSNYR) edit(QES2_26_A)(COL(344),F(2));
get file(VARSNYR) edit(QES2_26_B)(COL(346),F(2)); get file(VARSNYR) edit(QES2_26_C)(COL(348),F(2));
get file(VARSNYR) edit(QES2_28  )(COL(350),F(2)); get file(VARSNYR) edit(QES2_30_1_A)(COL(352),F(2));
get file(VARSNYR) edit(QES2_30_1_B)(COL(354),F(2));
get file(VARSNYR) edit(QES2_30_1_C)(COL(356),F(2));
get file(VARSNYR) edit(QES2_31_1_A)(COL(358),F(2));
get file(VARSNYR) edit(QES2_31_1_B)(COL(360),F(2));
get file(VARSNYR) edit(QES2_31_1_C)(COL(362),F(2));
get file(VARSNYR) edit(QES2_30_2_A)(COL(364),F(2));
get file(VARSNYR) edit(QES2_30_2_B)(COL(366),F(2));
get file(VARSNYR) edit(QES2_30_2_C)(COL(368),F(2));
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get file(VARSNYR) edit(QES2_31_2_A)(COL(370),F(2));
get file(VARSNYR) edit(QES2_31_2_B)(COL(372),F(2));
get file(VARSNYR) edit(QES2_31_2_C)(COL(374),F(2));
get file(VARSNYR) edit(QES2_30_3_A)(COL(376),F(2));
get file(VARSNYR) edit(QES2_30_3_B)(COL(378),F(2));
get file(VARSNYR) edit(QES2_30_3_C)(COL(380),F(2));
get file(VARSNYR) edit(QES2_31_3_A)(COL(382),F(2));
get file(VARSNYR) edit(QES2_31_3_B)(COL(384),F(2));
get file(VARSNYR) edit(QES2_31_3_C)(COL(386),F(2));
get file(VARSNYR) edit(QES2_30_4_A)(COL(388),F(2));
get file(VARSNYR) edit(QES2_30_4_B)(COL(390),F(2));
get file(VARSNYR) edit(QES2_30_4_C)(COL(392),F(2));
get file(VARSNYR) edit(QES2_31_4_A)(COL(394),F(2));
get file(VARSNYR) edit(QES2_31_4_B)(COL(396),F(2));
get file(VARSNYR) edit(QES2_31_4_C)(COL(398),F(2));
get file(VARSNYR) edit(QES2_30_5_A)(COL(400),F(2));
get file(VARSNYR) edit(QES2_30_5_B)(COL(402),F(2));
get file(VARSNYR) edit(QES2_30_5_C)(COL(404),F(2));
get file(VARSNYR) edit(QES2_31_5_A)(COL(406),F(2));
get file(VARSNYR) edit(QES2_31_5_B)(COL(408),F(2));
get file(VARSNYR) edit(QES2_31_5_C)(COL(410),F(2));
get file(VARSNYR) edit(QES2_30_6_A)(COL(412),F(2));
get file(VARSNYR) edit(QES2_30_6_B)(COL(414),F(2));
get file(VARSNYR) edit(QES2_30_6_C)(COL(416),F(2));
get file(VARSNYR) edit(QES2_31_6_A)(COL(418),F(2));
get file(VARSNYR) edit(QES2_31_6_B)(COL(420),F(2));
get file(VARSNYR) edit(QES2_31_6_C)(COL(422),F(2));
get file(VARSNYR) edit(QES2_33_1)(COL(424),F(2)); get file(VARSNYR) edit(QES2_34_1)(COL(426),F(2));
get file(VARSNYR) edit(QES2_36_1)(COL(428),F(2)); get file(VARSNYR) edit(QES2_40_1)(COL(430),F(3));
get file(VARSNYR) edit(QES2_33_2)(COL(433),F(2)); get file(VARSNYR) edit(QES2_34_2)(COL(435),F(2));
get file(VARSNYR) edit(QES2_36_2)(COL(437),F(2)); get file(VARSNYR) edit(QES2_40_2)(COL(439),F(3));
get file(VARSNYR) edit(QES2_33_3)(COL(442),F(2)); get file(VARSNYR) edit(QES2_34_3)(COL(444),F(2));
get file(VARSNYR) edit(QES2_36_3)(COL(446),F(2)); get file(VARSNYR) edit(QES2_40_3)(COL(448),F(3));
get file(VARSNYR) edit(QES2_33_4)(COL(451),F(2)); get file(VARSNYR) edit(QES2_34_4)(COL(453),F(2));
get file(VARSNYR) edit(QES2_36_4)(COL(455),F(2)); get file(VARSNYR) edit(QES2_40_4)(COL(457),F(3));
get file(VARSNYR) edit(QES2_33_5)(COL(460),F(2)); get file(VARSNYR) edit(QES2_34_5)(COL(462),F(2));
get file(VARSNYR) edit(QES2_36_5)(COL(464),F(2)); get file(VARSNYR) edit(QES2_40_5)(COL(466),F(3));
get file(VARSNYR) edit(QES2_33_6)(COL(469),F(2)); get file(VARSNYR) edit(QES2_34_6)(COL(471),F(2));
get file(VARSNYR) edit(QES2_36_6)(COL(473),F(2)); get file(VARSNYR) edit(QES2_40_6)(COL(475),F(3));
get file(VARSNYR) edit(QES2_51 )(COL(478),F(2)); get file(VARSNYR) edit(QES2_53A )(COL(480),F(3));
get file(VARSNYR) edit(QES2_53D )(COL(483),F(3)); get file(VARSNYR) edit(QES2_54A )(COL(486),F(2));
get file(VARSNYR) edit(QES2_56A )(COL(488),F(6)); get file(VARSNYR) edit(QES2_56B )(COL(494),F(3));
get file(VARSNYR) edit(QES2_57 )(COL(497),F(6)); get file(VARSNYR) edit(QES2_58A )(COL(503),F(2));
get file(VARSNYR) edit(QES2_76 )(COL(505),F(8)); get file(VARSNYR) edit(QES2_77 )(COL(513),F(2));
get file(VARSNYR) edit(QES2_80 )(COL(515),F(2)); get file(VARSNYR) edit(QES2_81 )(COL(517),F(2));
get file(VARSNYR) edit(QES2_82 )(COL(519),F(8)); get file(VARSNYR) edit(QES2_83 )(COL(527),F(2));
get file(VARSNYR) edit(QES2_86 )(COL(529),F(2)); get file(VARSNYR) edit(QES2_87 )(COL(531),F(2));
get file(VARSNYR) edit(QES2_88 )(COL(533),F(2)); get file(VARSNYR) edit(QES2_89 )(COL(535),F(2));
get file(VARSNYR) edit(QES3_4B )(COL(537),F(4)); get file(VARSNYR) edit(QES3_6   )(COL(541),F(2));
get file(VARSNYR) edit(QES3_8_A )(COL(543),F(2)); get file(VARSNYR) edit(QES3_8_B )(COL(545),F(2));
get file(VARSNYR) edit(QES3_8_C )(COL(547),F(2)); get file(VARSNYR) edit(QES3_8A_A)(COL(549),F(2));
get file(VARSNYR) edit(QES3_8A_B)(COL(551),F(2)); get file(VARSNYR) edit(QES3_8A_C)(COL(553),F(2));
get file(VARSNYR) edit(QES3_23 )(COL(555),F(2)); get file(VARSNYR) edit(QES3_23A )(COL(557),F(2));
get file(VARSNYR) edit(QES3_26_A)(COL(559),F(2)); get file(VARSNYR) edit(QES3_26_B)(COL(561),F(2));
get file(VARSNYR) edit(QES3_26_C)(COL(563),F(2)); get file(VARSNYR) edit(QES3_28 )(COL(565),F(2));
get file(VARSNYR) edit(QES3_30_1_A)(COL(567),F(2));
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get file(VARSNYR) edit(QES3_30_1_B)(COL(569),F(2));
get file(VARSNYR) edit(QES3_30_1_C)(COL(571),F(2));
get file(VARSNYR) edit(QES3_31_1_A)(COL(573),F(2));
get file(VARSNYR) edit(QES3_31_1_B)(COL(575),F(2));
get file(VARSNYR) edit(QES3_31_1_C)(COL(577),F(2));
get file(VARSNYR) edit(QES3_30_2_A)(COL(579),F(2));
get file(VARSNYR) edit(QES3_30_2_B)(COL(581),F(2));
get file(VARSNYR) edit(QES3_30_2_C)(COL(583),F(2));
get file(VARSNYR) edit(QES3_31_2_A)(COL(585),F(2));
get file(VARSNYR) edit(QES3_31_2_B)(COL(587),F(2));
get file(VARSNYR) edit(QES3_31_2_C)(COL(589),F(2));
get file(VARSNYR) edit(QES3_30_3_A)(COL(591),F(2));
get file(VARSNYR) edit(QES3_30_3_B)(COL(593),F(2));
get file(VARSNYR) edit(QES3_30_3_C)(COL(595),F(2));
get file(VARSNYR) edit(QES3_31_3_A)(COL(597),F(2));
get file(VARSNYR) edit(QES3_31_3_B)(COL(599),F(2));
get file(VARSNYR) edit(QES3_31_3_C)(COL(601),F(2));
get file(VARSNYR) edit(QES3_30_4_A)(COL(603),F(2));
get file(VARSNYR) edit(QES3_30_4_B)(COL(605),F(2));
get file(VARSNYR) edit(QES3_30_4_C)(COL(607),F(2));
get file(VARSNYR) edit(QES3_31_4_A)(COL(609),F(2));
get file(VARSNYR) edit(QES3_31_4_B)(COL(611),F(2));
get file(VARSNYR) edit(QES3_31_4_C)(COL(613),F(2));
get file(VARSNYR) edit(QES3_30_5_A)(COL(615),F(2));
get file(VARSNYR) edit(QES3_30_5_B)(COL(617),F(2));
get file(VARSNYR) edit(QES3_30_5_C)(COL(619),F(2));
get file(VARSNYR) edit(QES3_31_5_A)(COL(621),F(2));
get file(VARSNYR) edit(QES3_31_5_B)(COL(623),F(2));
get file(VARSNYR) edit(QES3_31_5_C)(COL(625),F(2));
get file(VARSNYR) edit(QES3_30_6_A)(COL(627),F(2));
get file(VARSNYR) edit(QES3_30_6_B)(COL(629),F(2));
get file(VARSNYR) edit(QES3_30_6_C)(COL(631),F(2));
get file(VARSNYR) edit(QES3_31_6_A)(COL(633),F(2));
get file(VARSNYR) edit(QES3_31_6_B)(COL(635),F(2));
get file(VARSNYR) edit(QES3_31_6_C)(COL(637),F(2));
get file(VARSNYR) edit(QES3_33_1)(COL(639),F(2)); get file(VARSNYR) edit(QES3_34_1)(COL(641),F(2));
get file(VARSNYR) edit(QES3_36_1)(COL(643),F(2)); get file(VARSNYR) edit(QES3_40_1)(COL(645),F(3));
get file(VARSNYR) edit(QES3_33_2)(COL(648),F(2)); get file(VARSNYR) edit(QES3_34_2)(COL(650),F(2));
get file(VARSNYR) edit(QES3_36_2)(COL(652),F(2)); get file(VARSNYR) edit(QES3_40_2)(COL(654),F(3));
get file(VARSNYR) edit(QES3_33_3)(COL(657),F(2)); get file(VARSNYR) edit(QES3_34_3)(COL(659),F(2));
get file(VARSNYR) edit(QES3_36_3)(COL(661),F(2)); get file(VARSNYR) edit(QES3_40_3)(COL(663),F(3));
get file(VARSNYR) edit(QES3_33_4)(COL(666),F(2)); get file(VARSNYR) edit(QES3_34_4)(COL(668),F(2));
get file(VARSNYR) edit(QES3_36_4)(COL(670),F(2)); get file(VARSNYR) edit(QES3_40_4)(COL(672),F(3));
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get file(VARSNYR) edit(QES3_36_5)(COL(679),F(2)); get file(VARSNYR) edit(QES3_40_5)(COL(681),F(3));
get file(VARSNYR) edit(QES3_33_6)(COL(684),F(2)); get file(VARSNYR) edit(QES3_34_6)(COL(686),F(2));
get file(VARSNYR) edit(QES3_36_6)(COL(688),F(2)); get file(VARSNYR) edit(QES3_40_6)(COL(690),F(3));
get file(VARSNYR) edit(QES3_51 )(COL(693),F(2)); get file(VARSNYR) edit(QES3_53A )(COL(695),F(3));
get file(VARSNYR) edit(QES3_53D )(COL(698),F(3)); get file(VARSNYR) edit(QES3_54A )(COL(701),F(2));
get file(VARSNYR) edit(QES3_56A )(COL(703),F(6)); get file(VARSNYR) edit(QES3_56B )(COL(709),F(3));
get file(VARSNYR) edit(QES3_57 )(COL(712),F(6)); get file(VARSNYR) edit(QES3_58A )(COL(718),F(2));
get file(VARSNYR) edit(QES3_76 )(COL(720),F(8)); get file(VARSNYR) edit(QES3_77 )(COL(728),F(2));
get file(VARSNYR) edit(QES3_80 )(COL(730),F(2)); get file(VARSNYR) edit(QES3_81 )(COL(732),F(2));
get file(VARSNYR) edit(QES3_82 )(COL(734),F(8)); get file(VARSNYR) edit(QES3_83 )(COL(742),F(2));
get file(VARSNYR) edit(QES3_86 )(COL(744),F(2)); get file(VARSNYR) edit(QES3_87 )(COL(746),F(2));
get file(VARSNYR) edit(QES3_88 )(COL(748),F(2)); get file(VARSNYR) edit(QES3_89 )(COL(750),F(2));
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get file(VARSNYR) edit(QES4_4B)(COL(752),F(4)); get file(VARSNYR) edit(QES4_6   )(COL(756),F(2));
get file(VARSNYR) edit(QES4_8_A)(COL(758),F(2)); get file(VARSNYR) edit(QES4_8_B)(COL(760),F(2));
get file(VARSNYR) edit(QES4_8_C)(COL(762),F(2)); get file(VARSNYR) edit(QES4_8A_A)(COL(764),F(2));
get file(VARSNYR) edit(QES4_8A_B)(COL(766),F(2)); get file(VARSNYR) edit(QES4_8A_C)(COL(768),F(2));
get file(VARSNYR) edit(QES4_23)(COL(770),F(2)); get file(VARSNYR) edit(QES4_23A)(COL(772),F(2));
get file(VARSNYR) edit(QES4_26_A)(COL(774),F(2)); get file(VARSNYR) edit(QES4_26_B)(COL(776),F(2));
get file(VARSNYR) edit(QES4_26_C)(COL(778),F(2)); get file(VARSNYR) edit(QES4_28)(COL(780),F(2));
get file(VARSNYR) edit(QES4_30_1_A)(COL(782),F(2));
get file(VARSNYR) edit(QES4_30_1_B)(COL(784),F(2));
get file(VARSNYR) edit(QES4_30_1_C)(COL(786),F(2));
get file(VARSNYR) edit(QES4_31_1_A)(COL(788),F(2));
get file(VARSNYR) edit(QES4_31_1_B)(COL(790),F(2));
get file(VARSNYR) edit(QES4_31_1_C)(COL(792),F(2));
get file(VARSNYR) edit(QES4_30_2_A)(COL(794),F(2));
get file(VARSNYR) edit(QES4_30_2_B)(COL(796),F(2));
get file(VARSNYR) edit(QES4_30_2_C)(COL(798),F(2));
get file(VARSNYR) edit(QES4_31_2_A)(COL(800),F(2));
get file(VARSNYR) edit(QES4_31_2_B)(COL(802),F(2));
get file(VARSNYR) edit(QES4_31_2_C)(COL(804),F(2));
get file(VARSNYR) edit(QES4_30_3_A)(COL(806),F(2));
get file(VARSNYR) edit(QES4_30_3_B)(COL(808),F(2));
get file(VARSNYR) edit(QES4_30_3_C)(COL(810),F(2));
get file(VARSNYR) edit(QES4_31_3_A)(COL(812),F(2));
get file(VARSNYR) edit(QES4_31_3_B)(COL(814),F(2));
get file(VARSNYR) edit(QES4_31_3_C)(COL(816),F(2));
get file(VARSNYR) edit(QES4_30_4_A)(COL(818),F(2));
get file(VARSNYR) edit(QES4_30_4_B)(COL(820),F(2));
get file(VARSNYR) edit(QES4_30_4_C)(COL(822),F(2));
get file(VARSNYR) edit(QES4_31_4_A)(COL(824),F(2));
get file(VARSNYR) edit(QES4_31_4_B)(COL(826),F(2));
get file(VARSNYR) edit(QES4_31_4_C)(COL(828),F(2));
get file(VARSNYR) edit(QES4_30_5_A)(COL(830),F(2));
get file(VARSNYR) edit(QES4_30_5_B)(COL(832),F(2));
get file(VARSNYR) edit(QES4_30_5_C)(COL(834),F(2));
get file(VARSNYR) edit(QES4_31_5_A)(COL(836),F(2));
get file(VARSNYR) edit(QES4_31_5_B)(COL(838),F(2));
get file(VARSNYR) edit(QES4_31_5_C)(COL(840),F(2));
get file(VARSNYR) edit(QES4_30_6_A)(COL(842),F(2));
get file(VARSNYR) edit(QES4_30_6_B)(COL(844),F(2));
get file(VARSNYR) edit(QES4_30_6_C)(COL(846),F(2));
get file(VARSNYR) edit(QES4_31_6_A)(COL(848),F(2));
get file(VARSNYR) edit(QES4_31_6_B)(COL(850),F(2));
get file(VARSNYR) edit(QES4_31_6_C)(COL(852),F(2));
get file(VARSNYR) edit(QES4_33_1)(COL(854),F(2)); get file(VARSNYR) edit(QES4_34_1)(COL(856),F(2));
get file(VARSNYR) edit(QES4_36_1)(COL(858),F(2)); get file(VARSNYR) edit(QES4_40_1)(COL(860),F(3));
get file(VARSNYR) edit(QES4_33_2)(COL(863),F(2)); get file(VARSNYR) edit(QES4_34_2)(COL(865),F(2));
get file(VARSNYR) edit(QES4_36_2)(COL(867),F(2)); get file(VARSNYR) edit(QES4_40_2)(COL(869),F(3));
get file(VARSNYR) edit(QES4_33_3)(COL(872),F(2)); get file(VARSNYR) edit(QES4_34_3)(COL(874),F(2));
get file(VARSNYR) edit(QES4_36_3)(COL(876),F(2)); get file(VARSNYR) edit(QES4_40_3)(COL(878),F(3));
get file(VARSNYR) edit(QES4_33_4)(COL(881),F(2)); get file(VARSNYR) edit(QES4_34_4)(COL(883),F(2));
get file(VARSNYR) edit(QES4_36_4)(COL(885),F(2)); get file(VARSNYR) edit(QES4_40_4)(COL(887),F(3));
get file(VARSNYR) edit(QES4_33_5)(COL(890),F(2)); get file(VARSNYR) edit(QES4_34_5)(COL(892),F(2));
get file(VARSNYR) edit(QES4_36_5)(COL(894),F(2)); get file(VARSNYR) edit(QES4_40_5)(COL(896),F(3));
get file(VARSNYR) edit(QES4_33_6)(COL(899),F(2)); get file(VARSNYR) edit(QES4_34_6)(COL(901),F(2));
get file(VARSNYR) edit(QES4_36_6)(COL(903),F(2)); get file(VARSNYR) edit(QES4_40_6)(COL(905),F(3));
get file(VARSNYR) edit(QES4_51)(COL(908),F(2)); get file(VARSNYR) edit(QES4_53A)(COL(910),F(3));

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get file(VARSNYR) edit(QES4_53D )(COL(913),F(3)); get file(VARSNYR) edit(QES4_54A )(COL(916),F(2));
get file(VARSNYR) edit(QES4_56A )(COL(918),F(6)); get file(VARSNYR) edit(QES4_56B )(COL(924),F(3));
get file(VARSNYR) edit(QES4_57  )(COL(927),F(6)); get file(VARSNYR) edit(QES4_58A )(COL(933),F(2));
get file(VARSNYR) edit(QES4_76  )(COL(935),F(8)); get file(VARSNYR) edit(QES4_77  )(COL(943),F(2));
get file(VARSNYR) edit(QES4_80  )(COL(945),F(2)); get file(VARSNYR) edit(QES4_81  )(COL(947),F(2));
get file(VARSNYR) edit(QES4_82  )(COL(949),F(8)); get file(VARSNYR) edit(QES4_83  )(COL(957),F(2));
get file(VARSNYR) edit(QES4_86  )(COL(959),F(2)); get file(VARSNYR) edit(QES4_87  )(COL(961),F(2));
get file(VARSNYR) edit(QES4_88  )(COL(963),F(2)); get file(VARSNYR) edit(QES4_89  )(COL(965),F(2));
get file(VARSNYR) edit(QES5_4B  )(COL(967),F(4)); get file(VARSNYR) edit(QES5_6   )(COL(971),F(2));
get file(VARSNYR) edit(QES5_8_A )(COL(973),F(2)); get file(VARSNYR) edit(QES5_8_B )(COL(975),F(2));
get file(VARSNYR) edit(QES5_8_C )(COL(977),F(2)); get file(VARSNYR) edit(QES5_8A_A)(COL(979),F(2));
get file(VARSNYR) edit(QES5_8A_B)(COL(981),F(2)); get file(VARSNYR) edit(QES5_8A_C)(COL(983),F(2));
get file(VARSNYR) edit(QES5_23  )(COL(985),F(2)); get file(VARSNYR) edit(QES5_23A )(COL(987),F(2));
get file(VARSNYR) edit(QES5_26_A)(COL(989),F(2)); get file(VARSNYR) edit(QES5_26_B)(COL(991),F(2));
get file(VARSNYR) edit(QES5_26_C)(COL(993),F(2)); get file(VARSNYR) edit(QES5_28  )(COL(995),F(2));
get file(VARSNYR) edit(QES5_30_1_A)(COL(997),F(2));
get file(VARSNYR) edit(QES5_30_1_B)(COL(999),F(2));
get file(VARSNYR) edit(QES5_30_1_C)(COL(1001),F(2));
get file(VARSNYR) edit(QES5_31_1_A)(COL(1003),F(2));
get file(VARSNYR) edit(QES5_31_1_B)(COL(1005),F(2));
get file(VARSNYR) edit(QES5_31_1_C)(COL(1007),F(2));
get file(VARSNYR) edit(QES5_30_2_A)(COL(1009),F(2));
get file(VARSNYR) edit(QES5_30_2_B)(COL(1011),F(2));
get file(VARSNYR) edit(QES5_30_2_C)(COL(1013),F(2));
get file(VARSNYR) edit(QES5_31_2_A)(COL(1015),F(2));
get file(VARSNYR) edit(QES5_31_2_B)(COL(1017),F(2));
get file(VARSNYR) edit(QES5_31_2_C)(COL(1019),F(2));
get file(VARSNYR) edit(QES5_30_3_A)(COL(1021),F(2));
get file(VARSNYR) edit(QES5_30_3_B)(COL(1023),F(2));
get file(VARSNYR) edit(QES5_30_3_C)(COL(1025),F(2));
get file(VARSNYR) edit(QES5_31_3_A)(COL(1027),F(2));
get file(VARSNYR) edit(QES5_31_3_B)(COL(1029),F(2));
get file(VARSNYR) edit(QES5_31_3_C)(COL(1031),F(2));
get file(VARSNYR) edit(QES5_30_4_A)(COL(1033),F(2));
get file(VARSNYR) edit(QES5_30_4_B)(COL(1035),F(2));
get file(VARSNYR) edit(QES5_30_4_C)(COL(1037),F(2));
get file(VARSNYR) edit(QES5_31_4_A)(COL(1039),F(2));
get file(VARSNYR) edit(QES5_31_4_B)(COL(1041),F(2));
get file(VARSNYR) edit(QES5_31_4_C)(COL(1043),F(2));
get file(VARSNYR) edit(QES5_30_5_A)(COL(1045),F(2));
get file(VARSNYR) edit(QES5_30_5_B)(COL(1047),F(2));
get file(VARSNYR) edit(QES5_30_5_C)(COL(1049),F(2));
get file(VARSNYR) edit(QES5_31_5_A)(COL(1051),F(2));
get file(VARSNYR) edit(QES5_31_5_B)(COL(1053),F(2));
get file(VARSNYR) edit(QES5_31_5_C)(COL(1055),F(2));
get file(VARSNYR) edit(QES5_30_6_A)(COL(1057),F(2));
get file(VARSNYR) edit(QES5_30_6_B)(COL(1059),F(2));
get file(VARSNYR) edit(QES5_30_6_C)(COL(1061),F(2));
get file(VARSNYR) edit(QES5_31_6_A)(COL(1063),F(2));
get file(VARSNYR) edit(QES5_31_6_B)(COL(1065),F(2));
get file(VARSNYR) edit(QES5_31_6_C)(COL(1067),F(2));
get file(VARSNYR) edit(QES5_33_1)(COL(1069),F(2)); get file(VARSNYR) edit(QES5_34_1)(COL(1071),F(2));
get file(VARSNYR) edit(QES5_36_1)(COL(1073),F(2)); get file(VARSNYR) edit(QES5_40_1)(COL(1075),F(3));
get file(VARSNYR) edit(QES5_33_2)(COL(1078),F(2)); get file(VARSNYR) edit(QES5_34_2)(COL(1080),F(2));
get file(VARSNYR) edit(QES5_36_2)(COL(1082),F(2)); get file(VARSNYR) edit(QES5_40_2)(COL(1084),F(3));
get file(VARSNYR) edit(QES5_33_3)(COL(1087),F(2)); get file(VARSNYR) edit(QES5_34_3)(COL(1089),F(2));
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get file(VARSNYR) edit(QES5_36_3)(COL(1091),F(2)); get file(VARSNYR) edit(QES5_40_3)(COL(1093),F(3));
get file(VARSNYR) edit(QES5_33_4)(COL(1096),F(2)); get file(VARSNYR) edit(QES5_34_4)(COL(1098),F(2));
get file(VARSNYR) edit(QES5_36_4)(COL(1100),F(2)); get file(VARSNYR) edit(QES5_40_4)(COL(1102),F(3));
get file(VARSNYR) edit(QES5_33_5)(COL(1105),F(2)); get file(VARSNYR) edit(QES5_34_5)(COL(1107),F(2));
get file(VARSNYR) edit(QES5_36_5)(COL(1109),F(2)); get file(VARSNYR) edit(QES5_40_5)(COL(1111),F(3));
get file(VARSNYR) edit(QES5_33_6)(COL(1114),F(2)); get file(VARSNYR) edit(QES5_34_6)(COL(1116),F(2));
get file(VARSNYR) edit(QES5_36_6)(COL(1118),F(2)); get file(VARSNYR) edit(QES5_40_6)(COL(1120),F(3));
get file(VARSNYR) edit(QES5_51  )(COL(1123),F(2)); get file(VARSNYR) edit(QES5_53A )(COL(1125),F(3));
get file(VARSNYR) edit(QES5_53D )(COL(1128),F(3)); get file(VARSNYR) edit(QES5_54A )(COL(1131),F(2));
get file(VARSNYR) edit(QES5_56A )(COL(1133),F(6)); get file(VARSNYR) edit(QES5_56B )(COL(1139),F(3));
get file(VARSNYR) edit(QES5_57  )(COL(1142),F(6)); get file(VARSNYR) edit(QES5_58A )(COL(1148),F(2));
get file(VARSNYR) edit(QES5_76  )(COL(1150),F(8)); get file(VARSNYR) edit(QES5_77  )(COL(1158),F(2));
get file(VARSNYR) edit(QES5_80  )(COL(1160),F(2)); get file(VARSNYR) edit(QES5_81  )(COL(1162),F(2));
get file(VARSNYR) edit(QES5_82  )(COL(1164),F(8)); get file(VARSNYR) edit(QES5_83  )(COL(1172),F(2));
get file(VARSNYR) edit(QES5_86  )(COL(1174),F(2)); get file(VARSNYR) edit(QES5_87  )(COL(1176),F(2));
get file(VARSNYR) edit(QES5_88  )(COL(1178),F(2)); get file(VARSNYR) edit(QES5_89  )(COL(1180),F(2));
get file(VARSNYR) edit(QES6_4B  )(COL(1182),F(4)); get file(VARSNYR) edit(QES6_6   )(COL(1186),F(2));
get file(VARSNYR) edit(QES6_8_A )(COL(1188),F(2));
get file(VARSNYR) edit(QES6_8_B )(COL(1190),F(2));
get file(VARSNYR) edit(QES6_8_C )(COL(1192),F(2));
get file(VARSNYR) edit(QES6_8A_A)(COL(1194),F(2));
get file(VARSNYR) edit(QES6_8A_B)(COL(1196),F(2));
get file(VARSNYR) edit(QES6_8A_C)(COL(1198),F(2));
get file(VARSNYR) edit(QES6_23  )(COL(1200),F(2));
get file(VARSNYR) edit(QES6_23A )(COL(1202),F(2));
get file(VARSNYR) edit(QES6_26_A)(COL(1204),F(2));
get file(VARSNYR) edit(QES6_26_B)(COL(1206),F(2));
get file(VARSNYR) edit(QES6_26_C)(COL(1208),F(2));
get file(VARSNYR) edit(QES6_28  )(COL(1210),F(2));
get file(VARSNYR) edit(QES6_30_1_A)(COL(1212),F(2));
get file(VARSNYR) edit(QES6_30_1_B)(COL(1214),F(2));
get file(VARSNYR) edit(QES6_30_1_C)(COL(1216),F(2));
get file(VARSNYR) edit(QES6_31_1_A)(COL(1218),F(2));
get file(VARSNYR) edit(QES6_31_1_B)(COL(1220),F(2));
get file(VARSNYR) edit(QES6_31_1_C)(COL(1222),F(2));
get file(VARSNYR) edit(QES6_30_2_A)(COL(1224),F(2));
get file(VARSNYR) edit(QES6_30_2_B)(COL(1226),F(2));
get file(VARSNYR) edit(QES6_30_2_C)(COL(1228),F(2));
get file(VARSNYR) edit(QES6_31_2_A)(COL(1230),F(2));
get file(VARSNYR) edit(QES6_31_2_B)(COL(1232),F(2));
get file(VARSNYR) edit(QES6_31_2_C)(COL(1234),F(2));
get file(VARSNYR) edit(QES6_30_3_A)(COL(1236),F(2));
get file(VARSNYR) edit(QES6_30_3_B)(COL(1238),F(2));
get file(VARSNYR) edit(QES6_30_3_C)(COL(1240),F(2));
get file(VARSNYR) edit(QES6_31_3_A)(COL(1242),F(2));
get file(VARSNYR) edit(QES6_31_3_B)(COL(1244),F(2));
get file(VARSNYR) edit(QES6_31_3_C)(COL(1246),F(2));
get file(VARSNYR) edit(QES6_30_4_A)(COL(1248),F(2));
get file(VARSNYR) edit(QES6_30_4_B)(COL(1250),F(2));
get file(VARSNYR) edit(QES6_30_4_C)(COL(1252),F(2));
get file(VARSNYR) edit(QES6_31_4_A)(COL(1254),F(2));
get file(VARSNYR) edit(QES6_31_4_B)(COL(1256),F(2));
get file(VARSNYR) edit(QES6_31_4_C)(COL(1258),F(2));
get file(VARSNYR) edit(QES6_30_5_A)(COL(1260),F(2));
get file(VARSNYR) edit(QES6_30_5_B)(COL(1262),F(2));
get file(VARSNYR) edit(QES6_30_5_C)(COL(1264),F(2));
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get file(VARSNYR) edit(QES6_31_5_A)(COL(1266),F(2));
get file(VARSNYR) edit(QES6_31_5_B)(COL(1268),F(2));
get file(VARSNYR) edit(QES6_31_5_C)(COL(1270),F(2));
get file(VARSNYR) edit(QES6_30_6_A)(COL(1272),F(2));
get file(VARSNYR) edit(QES6_30_6_B)(COL(1274),F(2));
get file(VARSNYR) edit(QES6_30_6_C)(COL(1276),F(2));
get file(VARSNYR) edit(QES6_31_6_A)(COL(1278),F(2));
get file(VARSNYR) edit(QES6_31_6_B)(COL(1280),F(2));
get file(VARSNYR) edit(QES6_31_6_C)(COL(1282),F(2));
get file(VARSNYR) edit(QES6_33_1)(COL(1284),F(2)); get file(VARSNYR) edit(QES6_34_1)(COL(1286),F(2));
get file(VARSNYR) edit(QES6_36_1)(COL(1288),F(2)); get file(VARSNYR) edit(QES6_40_1)(COL(1290),F(3));
get file(VARSNYR) edit(QES6_33_2)(COL(1293),F(2)); get file(VARSNYR) edit(QES6_34_2)(COL(1295),F(2));
get file(VARSNYR) edit(QES6_36_2)(COL(1297),F(2)); get file(VARSNYR) edit(QES6_40_2)(COL(1299),F(3));
get file(VARSNYR) edit(QES6_33_3)(COL(1302),F(2)); get file(VARSNYR) edit(QES6_34_3)(COL(1304),F(2));
get file(VARSNYR) edit(QES6_36_3)(COL(1306),F(2)); get file(VARSNYR) edit(QES6_40_3)(COL(1308),F(3));
get file(VARSNYR) edit(QES6_33_4)(COL(1311),F(2)); get file(VARSNYR) edit(QES6_34_4)(COL(1313),F(2));
get file(VARSNYR) edit(QES6_36_4)(COL(1315),F(2)); get file(VARSNYR) edit(QES6_40_4)(COL(1317),F(3));
get file(VARSNYR) edit(QES6_33_5)(COL(1320),F(2)); get file(VARSNYR) edit(QES6_34_5)(COL(1322),F(2));
get file(VARSNYR) edit(QES6_36_5)(COL(1324),F(2)); get file(VARSNYR) edit(QES6_40_5)(COL(1326),F(3));
get file(VARSNYR) edit(QES6_33_6)(COL(1329),F(2)); get file(VARSNYR) edit(QES6_34_6)(COL(1331),F(2));
get file(VARSNYR) edit(QES6_36_6)(COL(1333),F(2)); get file(VARSNYR) edit(QES6_40_6)(COL(1335),F(3));
get file(VARSNYR) edit(QES6_51 )(COL(1338),F(2)); get file(VARSNYR) edit(QES6_53A )(COL(1340),F(3));
get file(VARSNYR) edit(QES6_53D )(COL(1343),F(3)); get file(VARSNYR) edit(QES6_54A )(COL(1346),F(2));
get file(VARSNYR) edit(QES6_56A )(COL(1348),F(6)); get file(VARSNYR) edit(QES6_56B )(COL(1354),F(3));
get file(VARSNYR) edit(QES6_57 )(COL(1357),F(6)); get file(VARSNYR) edit(QES6_58A )(COL(1363),F(2));
get file(VARSNYR) edit(QES6_76 )(COL(1365),F(8)); get file(VARSNYR) edit(QES6_77 )(COL(1373),F(2));
get file(VARSNYR) edit(QES6_80 )(COL(1375),F(2)); get file(VARSNYR) edit(QES6_81 )(COL(1377),F(2));
get file(VARSNYR) edit(QES6_82 )(COL(1379),F(8)); get file(VARSNYR) edit(QES6_83 )(COL(1387),F(2));
get file(VARSNYR) edit(QES6_86 )(COL(1389),F(2)); get file(VARSNYR) edit(QES6_87 )(COL(1391),F(2));
get file(VARSNYR) edit(QES6_88 )(COL(1393),F(2)); get file(VARSNYR) edit(QES6_89 )(COL(1395),F(2));
get file(VARSNYR) edit(QES7_4B )(COL(1397),F(4)); get file(VARSNYR) edit(QES7_6 )(COL(1401),F(2));
get file(VARSNYR) edit(QES7_8_A )(COL(1403),F(2));
get file(VARSNYR) edit(QES7_8_B )(COL(1405),F(2));
get file(VARSNYR) edit(QES7_8_C )(COL(1407),F(2));
get file(VARSNYR) edit(QES7_8A_A)(COL(1409),F(2));
get file(VARSNYR) edit(QES7_8A_B)(COL(1411),F(2));
get file(VARSNYR) edit(QES7_8A_C)(COL(1413),F(2));
get file(VARSNYR) edit(QES7_23 )(COL(1415),F(2));
get file(VARSNYR) edit(QES7_23A )(COL(1417),F(2));
get file(VARSNYR) edit(QES7_26_A)(COL(1419),F(2));
get file(VARSNYR) edit(QES7_26_B)(COL(1421),F(2));
get file(VARSNYR) edit(QES7_26_C)(COL(1423),F(2));
get file(VARSNYR) edit(QES7_28 )(COL(1425),F(2));
get file(VARSNYR) edit(QES7_30_1_A)(COL(1427),F(2));
get file(VARSNYR) edit(QES7_30_1_B)(COL(1429),F(2));
get file(VARSNYR) edit(QES7_30_1_C)(COL(1431),F(2));
get file(VARSNYR) edit(QES7_31_1_A)(COL(1433),F(2));
get file(VARSNYR) edit(QES7_31_1_B)(COL(1435),F(2));
get file(VARSNYR) edit(QES7_31_1_C)(COL(1437),F(2));
get file(VARSNYR) edit(QES7_30_2_A)(COL(1439),F(2));
get file(VARSNYR) edit(QES7_30_2_B)(COL(1441),F(2));
get file(VARSNYR) edit(QES7_30_2_C)(COL(1443),F(2));
get file(VARSNYR) edit(QES7_31_2_A)(COL(1445),F(2));
get file(VARSNYR) edit(QES7_31_2_B)(COL(1447),F(2));
get file(VARSNYR) edit(QES7_31_2_C)(COL(1449),F(2));
get file(VARSNYR) edit(QES7_30_3_A)(COL(1451),F(2));
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get file(VARSNYR) edit(QES7_30_3_B)(COL(1453),F(2));
get file(VARSNYR) edit(QES7_30_3_C)(COL(1455),F(2));
get file(VARSNYR) edit(QES7_31_3_A)(COL(1457),F(2));
get file(VARSNYR) edit(QES7_31_3_B)(COL(1459),F(2));
get file(VARSNYR) edit(QES7_31_3_C)(COL(1461),F(2));
get file(VARSNYR) edit(QES7_30_4_A)(COL(1463),F(2));
get file(VARSNYR) edit(QES7_30_4_B)(COL(1465),F(2));
get file(VARSNYR) edit(QES7_30_4_C)(COL(1467),F(2));
get file(VARSNYR) edit(QES7_31_4_A)(COL(1469),F(2));
get file(VARSNYR) edit(QES7_31_4_B)(COL(1471),F(2));
get file(VARSNYR) edit(QES7_31_4_C)(COL(1473),F(2));
get file(VARSNYR) edit(QES7_30_5_A)(COL(1475),F(2));
get file(VARSNYR) edit(QES7_30_5_B)(COL(1477),F(2));
get file(VARSNYR) edit(QES7_30_5_C)(COL(1479),F(2));
get file(VARSNYR) edit(QES7_31_5_A)(COL(1481),F(2));
get file(VARSNYR) edit(QES7_31_5_B)(COL(1483),F(2));
get file(VARSNYR) edit(QES7_31_5_C)(COL(1485),F(2));
get file(VARSNYR) edit(QES7_30_6_A)(COL(1487),F(2));
get file(VARSNYR) edit(QES7_30_6_B)(COL(1489),F(2));
get file(VARSNYR) edit(QES7_30_6_C)(COL(1491),F(2));
get file(VARSNYR) edit(QES7_31_6_A)(COL(1493),F(2));
get file(VARSNYR) edit(QES7_31_6_B)(COL(1495),F(2));
get file(VARSNYR) edit(QES7_31_6_C)(COL(1497),F(2));
get file(VARSNYR) edit(QES7_33_1)(COL(1499),F(2)); get file(VARSNYR) edit(QES7_34_1)(COL(1501),F(2));
get file(VARSNYR) edit(QES7_36_1)(COL(1503),F(2)); get file(VARSNYR) edit(QES7_40_1)(COL(1505),F(3));
get file(VARSNYR) edit(QES7_33_2)(COL(1508),F(2)); get file(VARSNYR) edit(QES7_34_2)(COL(1510),F(2));
get file(VARSNYR) edit(QES7_36_2)(COL(1512),F(2)); get file(VARSNYR) edit(QES7_40_2)(COL(1514),F(3));
get file(VARSNYR) edit(QES7_33_3)(COL(1517),F(2)); get file(VARSNYR) edit(QES7_34_3)(COL(1519),F(2));
get file(VARSNYR) edit(QES7_36_3)(COL(1521),F(2)); get file(VARSNYR) edit(QES7_40_3)(COL(1523),F(3));
get file(VARSNYR) edit(QES7_33_4)(COL(1526),F(2)); get file(VARSNYR) edit(QES7_34_4)(COL(1528),F(2));
get file(VARSNYR) edit(QES7_36_4)(COL(1530),F(2)); get file(VARSNYR) edit(QES7_40_4)(COL(1532),F(3));
get file(VARSNYR) edit(QES7_33_5)(COL(1535),F(2)); get file(VARSNYR) edit(QES7_34_5)(COL(1537),F(2));
get file(VARSNYR) edit(QES7_36_5)(COL(1539),F(2)); get file(VARSNYR) edit(QES7_40_5)(COL(1541),F(3));
get file(VARSNYR) edit(QES7_33_6)(COL(1544),F(2)); get file(VARSNYR) edit(QES7_34_6)(COL(1546),F(2));
get file(VARSNYR) edit(QES7_36_6)(COL(1548),F(2)); get file(VARSNYR) edit(QES7_40_6)(COL(1550),F(3));
get file(VARSNYR) edit(QES7_51  )(COL(1553),F(2)); get file(VARSNYR) edit(QES7_53A )(COL(1555),F(3));
get file(VARSNYR) edit(QES7_53D )(COL(1558),F(3)); get file(VARSNYR) edit(QES7_54A )(COL(1561),F(2));
get file(VARSNYR) edit(QES7_56A )(COL(1563),F(6)); get file(VARSNYR) edit(QES7_56B )(COL(1569),F(3));
get file(VARSNYR) edit(QES7_57  )(COL(1572),F(6)); get file(VARSNYR) edit(QES7_58A )(COL(1578),F(2));
get file(VARSNYR) edit(QES7_76  )(COL(1580),F(8)); get file(VARSNYR) edit(QES7_77  )(COL(1588),F(2));
get file(VARSNYR) edit(QES7_80  )(COL(1590),F(2)); get file(VARSNYR) edit(QES7_81  )(COL(1592),F(2));
get file(VARSNYR) edit(QES7_82  )(COL(1594),F(8)); get file(VARSNYR) edit(QES7_83  )(COL(1602),F(2));
get file(VARSNYR) edit(QES7_86  )(COL(1604),F(2)); get file(VARSNYR) edit(QES7_87  )(COL(1606),F(2));
get file(VARSNYR) edit(QES7_88  )(COL(1608),F(2)); get file(VARSNYR) edit(QES7_89  )(COL(1610),F(2));
get file(VARSNYR) edit(QES8_4B  )(COL(1612),F(4)); get file(VARSNYR) edit(QES8_6   )(COL(1616),F(2));
get file(VARSNYR) edit(QES8_8_A )(COL(1618),F(2)); get file(VARSNYR) edit(QES8_8_B )(COL(1620),F(2));
get file(VARSNYR) edit(QES8_8_C )(COL(1622),F(2));
get file(VARSNYR) edit(QES8_8A_A)(COL(1624),F(2));
get file(VARSNYR) edit(QES8_8A_B)(COL(1626),F(2));
get file(VARSNYR) edit(QES8_8A_C)(COL(1628),F(2));
get file(VARSNYR) edit(QES8_23  )(COL(1630),F(2));
get file(VARSNYR) edit(QES8_23A )(COL(1632),F(2));
get file(VARSNYR) edit(QES8_26_A)(COL(1634),F(2));
get file(VARSNYR) edit(QES8_26_B)(COL(1636),F(2));
get file(VARSNYR) edit(QES8_26_C)(COL(1638),F(2));
get file(VARSNYR) edit(QES8_28  )(COL(1640),F(2));
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get file(VARSNYR) edit(QES8_30_1_A)(COL(1642),F(2));
get file(VARSNYR) edit(QES8_30_1_B)(COL(1644),F(2));
get file(VARSNYR) edit(QES8_30_1_C)(COL(1646),F(2));
get file(VARSNYR) edit(QES8_31_1_A)(COL(1648),F(2));
get file(VARSNYR) edit(QES8_31_1_B)(COL(1650),F(2));
get file(VARSNYR) edit(QES8_31_1_C)(COL(1652),F(2));
get file(VARSNYR) edit(QES8_30_2_A)(COL(1654),F(2));
get file(VARSNYR) edit(QES8_30_2_B)(COL(1656),F(2));
get file(VARSNYR) edit(QES8_30_2_C)(COL(1658),F(2));
get file(VARSNYR) edit(QES8_31_2_A)(COL(1660),F(2));
get file(VARSNYR) edit(QES8_31_2_B)(COL(1662),F(2));
get file(VARSNYR) edit(QES8_31_2_C)(COL(1664),F(2));
get file(VARSNYR) edit(QES8_30_3_A)(COL(1666),F(2));
get file(VARSNYR) edit(QES8_30_3_B)(COL(1668),F(2));
get file(VARSNYR) edit(QES8_30_3_C)(COL(1670),F(2));
get file(VARSNYR) edit(QES8_31_3_A)(COL(1672),F(2));
get file(VARSNYR) edit(QES8_31_3_B)(COL(1674),F(2));
get file(VARSNYR) edit(QES8_31_3_C)(COL(1676),F(2));
get file(VARSNYR) edit(QES8_30_4_A)(COL(1678),F(2));
get file(VARSNYR) edit(QES8_30_4_B)(COL(1680),F(2));
get file(VARSNYR) edit(QES8_30_4_C)(COL(1682),F(2));
get file(VARSNYR) edit(QES8_31_4_A)(COL(1684),F(2));
get file(VARSNYR) edit(QES8_31_4_B)(COL(1686),F(2));
get file(VARSNYR) edit(QES8_31_4_C)(COL(1688),F(2));
get file(VARSNYR) edit(QES8_30_5_A)(COL(1690),F(2));
get file(VARSNYR) edit(QES8_30_5_B)(COL(1692),F(2));
get file(VARSNYR) edit(QES8_30_5_C)(COL(1694),F(2));
get file(VARSNYR) edit(QES8_31_5_A)(COL(1696),F(2));
get file(VARSNYR) edit(QES8_31_5_B)(COL(1698),F(2));
get file(VARSNYR) edit(QES8_31_5_C)(COL(1700),F(2));
get file(VARSNYR) edit(QES8_30_6_A)(COL(1702),F(2));
get file(VARSNYR) edit(QES8_30_6_B)(COL(1704),F(2));
get file(VARSNYR) edit(QES8_30_6_C)(COL(1706),F(2));
get file(VARSNYR) edit(QES8_31_6_A)(COL(1708),F(2));
get file(VARSNYR) edit(QES8_31_6_B)(COL(1710),F(2));
get file(VARSNYR) edit(QES8_31_6_C)(COL(1712),F(2));
get file(VARSNYR) edit(QES8_33_1)(COL(1714),F(2)); get file(VARSNYR) edit(QES8_34_1)(COL(1716),F(2));
get file(VARSNYR) edit(QES8_36_1)(COL(1718),F(2)); get file(VARSNYR) edit(QES8_40_1)(COL(1720),F(3));
get file(VARSNYR) edit(QES8_33_2)(COL(1723),F(2)); get file(VARSNYR) edit(QES8_34_2)(COL(1725),F(2));
get file(VARSNYR) edit(QES8_36_2)(COL(1727),F(2)); get file(VARSNYR) edit(QES8_40_2)(COL(1729),F(3));
get file(VARSNYR) edit(QES8_33_3)(COL(1732),F(2)); get file(VARSNYR) edit(QES8_34_3)(COL(1734),F(2));
get file(VARSNYR) edit(QES8_36_3)(COL(1736),F(2)); get file(VARSNYR) edit(QES8_40_3)(COL(1738),F(3));
get file(VARSNYR) edit(QES8_33_4)(COL(1741),F(2)); get file(VARSNYR) edit(QES8_34_4)(COL(1743),F(2));
get file(VARSNYR) edit(QES8_36_4)(COL(1745),F(2)); get file(VARSNYR) edit(QES8_40_4)(COL(1747),F(3));
get file(VARSNYR) edit(QES8_33_5)(COL(1750),F(2)); get file(VARSNYR) edit(QES8_34_5)(COL(1752),F(2));
get file(VARSNYR) edit(QES8_36_5)(COL(1754),F(2)); get file(VARSNYR) edit(QES8_40_5)(COL(1756),F(3));
get file(VARSNYR) edit(QES8_33_6)(COL(1759),F(2)); get file(VARSNYR) edit(QES8_34_6)(COL(1761),F(2));
get file(VARSNYR) edit(QES8_36_6)(COL(1763),F(2)); get file(VARSNYR) edit(QES8_40_6)(COL(1765),F(3));
get file(VARSNYR) edit(QES8_51 )(COL(1768),F(2)); get file(VARSNYR) edit(QES8_53A )(COL(1770),F(3));
get file(VARSNYR) edit(QES8_53D )(COL(1773),F(3)); get file(VARSNYR) edit(QES8_54A )(COL(1776),F(2));
get file(VARSNYR) edit(QES8_56A )(COL(1778),F(6)); get file(VARSNYR) edit(QES8_56B )(COL(1784),F(3));
get file(VARSNYR) edit(QES8_57 )(COL(1787),F(6)); get file(VARSNYR) edit(QES8_58A )(COL(1793),F(2));
get file(VARSNYR) edit(QES8_76 )(COL(1795),F(8)); get file(VARSNYR) edit(QES8_77 )(COL(1803),F(2));
get file(VARSNYR) edit(QES8_80 )(COL(1805),F(2)); get file(VARSNYR) edit(QES8_81 )(COL(1807),F(2));
get file(VARSNYR) edit(QES8_82 )(COL(1809),F(8)); get file(VARSNYR) edit(QES8_83 )(COL(1817),F(2));
get file(VARSNYR) edit(QES8_86 )(COL(1819),F(2)); get file(VARSNYR) edit(QES8_87 )(COL(1821),F(2));
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get file(VARSNYR) edit(QES8_88  )(COL(1823),F(2)); get file(VARSNYR) edit(QES8_89  )(COL(1825),F(2));
get file(VARSNYR) edit(QES9_4B  )(COL(1827),F(4)); get file(VARSNYR) edit(QES9_6   )(COL(1831),F(2));
get file(VARSNYR) edit(QES9_8_A )(COL(1833),F(2)); get file(VARSNYR) edit(QES9_8_B )(COL(1835),F(2));
get file(VARSNYR) edit(QES9_8_C )(COL(1837),F(2));
get file(VARSNYR) edit(QES9_8A_A)(COL(1839),F(2));
get file(VARSNYR) edit(QES9_8A_B)(COL(1841),F(2));
get file(VARSNYR) edit(QES9_8A_C)(COL(1843),F(2));
get file(VARSNYR) edit(QES9_23  )(COL(1845),F(2));
get file(VARSNYR) edit(QES9_23A )(COL(1847),F(2));
get file(VARSNYR) edit(QES9_26_A)(COL(1849),F(2));
get file(VARSNYR) edit(QES9_26_B)(COL(1851),F(2));
get file(VARSNYR) edit(QES9_26_C)(COL(1853),F(2));
get file(VARSNYR) edit(QES9_28  )(COL(1855),F(2));
get file(VARSNYR) edit(QES9_30_1_A)(COL(1857),F(2));
get file(VARSNYR) edit(QES9_30_1_B)(COL(1859),F(2));
get file(VARSNYR) edit(QES9_30_1_C)(COL(1861),F(2));
get file(VARSNYR) edit(QES9_31_1_A)(COL(1863),F(2));
get file(VARSNYR) edit(QES9_31_1_B)(COL(1865),F(2));
get file(VARSNYR) edit(QES9_31_1_C)(COL(1867),F(2));
get file(VARSNYR) edit(QES9_30_2_A)(COL(1869),F(2));
get file(VARSNYR) edit(QES9_30_2_B)(COL(1871),F(2));
get file(VARSNYR) edit(QES9_30_2_C)(COL(1873),F(2));
get file(VARSNYR) edit(QES9_31_2_A)(COL(1875),F(2));
get file(VARSNYR) edit(QES9_31_2_B)(COL(1877),F(2));
get file(VARSNYR) edit(QES9_31_2_C)(COL(1879),F(2));
get file(VARSNYR) edit(QES9_30_3_A)(COL(1881),F(2));
get file(VARSNYR) edit(QES9_30_3_B)(COL(1883),F(2));
get file(VARSNYR) edit(QES9_30_3_C)(COL(1885),F(2));
get file(VARSNYR) edit(QES9_31_3_A)(COL(1887),F(2));
get file(VARSNYR) edit(QES9_31_3_B)(COL(1889),F(2));
get file(VARSNYR) edit(QES9_31_3_C)(COL(1891),F(2));
get file(VARSNYR) edit(QES9_30_4_A)(COL(1893),F(2));
get file(VARSNYR) edit(QES9_30_4_B)(COL(1895),F(2));
get file(VARSNYR) edit(QES9_30_4_C)(COL(1897),F(2));
get file(VARSNYR) edit(QES9_31_4_A)(COL(1899),F(2));
get file(VARSNYR) edit(QES9_31_4_B)(COL(1901),F(2));
get file(VARSNYR) edit(QES9_31_4_C)(COL(1903),F(2));
get file(VARSNYR) edit(QES9_30_5_A)(COL(1905),F(2));
get file(VARSNYR) edit(QES9_30_5_B)(COL(1907),F(2));
get file(VARSNYR) edit(QES9_30_5_C)(COL(1909),F(2));
get file(VARSNYR) edit(QES9_31_5_A)(COL(1911),F(2));
get file(VARSNYR) edit(QES9_31_5_B)(COL(1913),F(2));
get file(VARSNYR) edit(QES9_31_5_C)(COL(1915),F(2));
get file(VARSNYR) edit(QES9_30_6_A)(COL(1917),F(2));
get file(VARSNYR) edit(QES9_30_6_B)(COL(1919),F(2));
get file(VARSNYR) edit(QES9_30_6_C)(COL(1921),F(2));
get file(VARSNYR) edit(QES9_31_6_A)(COL(1923),F(2));
get file(VARSNYR) edit(QES9_31_6_B)(COL(1925),F(2));
get file(VARSNYR) edit(QES9_31_6_C)(COL(1927),F(2));
get file(VARSNYR) edit(QES9_33_1 )(COL(1929),F(2));get file(VARSNYR) edit(QES9_34_1 )(COL(1931),F(2));
get file(VARSNYR) edit(QES9_36_1 )(COL(1933),F(2));get file(VARSNYR) edit(QES9_40_1 )(COL(1935),F(3));
get file(VARSNYR) edit(QES9_33_2 )(COL(1938),F(2));get file(VARSNYR) edit(QES9_34_2 )(COL(1940),F(2));
get file(VARSNYR) edit(QES9_36_2 )(COL(1942),F(2));get file(VARSNYR) edit(QES9_40_2 )(COL(1944),F(3));
get file(VARSNYR) edit(QES9_33_3 )(COL(1947),F(2));get file(VARSNYR) edit(QES9_34_3 )(COL(1949),F(2));
get file(VARSNYR) edit(QES9_36_3 )(COL(1951),F(2));get file(VARSNYR) edit(QES9_40_3 )(COL(1953),F(3));
get file(VARSNYR) edit(QES9_33_4 )(COL(1956),F(2));get file(VARSNYR) edit(QES9_34_4 )(COL(1958),F(2));
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get file(VARSNYR) edit(QES9_36_4 )(COL(1960),F(2));get file(VARSNYR) edit(QES9_40_4 )(COL(1962),F(3));
get file(VARSNYR) edit(QES9_33_5 )(COL(1965),F(2));get file(VARSNYR) edit(QES9_34_5 )(COL(1967),F(2));
get file(VARSNYR) edit(QES9_36_5 )(COL(1969),F(2));get file(VARSNYR) edit(QES9_40_5 )(COL(1971),F(3));
get file(VARSNYR) edit(QES9_33_6 )(COL(1974),F(2));get file(VARSNYR) edit(QES9_34_6 )(COL(1976),F(2));
get file(VARSNYR) edit(QES9_36_6 )(COL(1978),F(2));get file(VARSNYR) edit(QES9_40_6 )(COL(1980),F(3));
get file(VARSNYR) edit(QES9_51   )(COL(1983),F(2)); get file(VARSNYR) edit(QES9_53A )(COL(1985),F(3));
get file(VARSNYR) edit(QES9_53D )(COL(1988),F(3));get file(VARSNYR) edit(QES9_54A )(COL(1991),F(2));
get file(VARSNYR) edit(QES9_56A )(COL(1993),F(6));get file(VARSNYR) edit(QES9_56B )(COL(1999),F(3));
get file(VARSNYR) edit(QES9_57   )(COL(2002),F(6)); get file(VARSNYR) edit(QES9_58A )(COL(2008),F(2));
get file(VARSNYR) edit(QES9_76   )(COL(2010),F(8)); get file(VARSNYR) edit(QES9_77   )(COL(2018),F(2));
get file(VARSNYR) edit(QES9_80   )(COL(2020),F(2)); get file(VARSNYR) edit(QES9_81   )(COL(2022),F(2));
get file(VARSNYR) edit(QES9_82   )(COL(2024),F(8)); get file(VARSNYR) edit(QES9_83   )(COL(2032),F(2));
get file(VARSNYR) edit(QES9_86   )(COL(2034),F(2)); get file(VARSNYR) edit(QES9_87   )(COL(2036),F(2));
get file(VARSNYR) edit(QES9_88   )(COL(2038),F(2)); get file(VARSNYR) edit(QES9_89   )(COL(2040),F(2));
get file(VARSNYR) edit(QES10_4B  )(COL(2042),F(4)); get file(VARSNYR) edit(QES10_6   )(COL(2046),F(2));
get file(VARSNYR) edit(QES10_8_A )(COL(2048),F(2));
get file(VARSNYR) edit(QES10_8_B )(COL(2050),F(2));
get file(VARSNYR) edit(QES10_8_C )(COL(2052),F(2));
get file(VARSNYR) edit(QES10_8A_A)(COL(2054),F(2));
get file(VARSNYR) edit(QES10_8A_B)(COL(2056),F(2));
get file(VARSNYR) edit(QES10_8A_C)(COL(2058),F(2));
get file(VARSNYR) edit(QES10_23  )(COL(2060),F(2));
get file(VARSNYR) edit(QES10_23A )(COL(2062),F(2));
get file(VARSNYR) edit(QES10_26_A)(COL(2064),F(2));
get file(VARSNYR) edit(QES10_26_B)(COL(2066),F(2));
get file(VARSNYR) edit(QES10_26_C)(COL(2068),F(2));
get file(VARSNYR) edit(QES10_28  )(COL(2070),F(2));
get file(VARSNYR) edit(QES10_30_1_A)(COL(2072),F(2));
get file(VARSNYR) edit(QES10_30_1_B)(COL(2074),F(2));
get file(VARSNYR) edit(QES10_30_1_C)(COL(2076),F(2));
get file(VARSNYR) edit(QES10_31_1_A)(COL(2078),F(2));
get file(VARSNYR) edit(QES10_31_1_B)(COL(2080),F(2));
get file(VARSNYR) edit(QES10_31_1_C)(COL(2082),F(2));
get file(VARSNYR) edit(QES10_30_2_A)(COL(2084),F(2));
get file(VARSNYR) edit(QES10_30_2_B)(COL(2086),F(2));
get file(VARSNYR) edit(QES10_30_2_C)(COL(2088),F(2));
get file(VARSNYR) edit(QES10_31_2_A)(COL(2090),F(2));
get file(VARSNYR) edit(QES10_31_2_B)(COL(2092),F(2));
get file(VARSNYR) edit(QES10_31_2_C)(COL(2094),F(2));
get file(VARSNYR) edit(QES10_30_3_A)(COL(2096),F(2));
get file(VARSNYR) edit(QES10_30_3_B)(COL(2098),F(2));
get file(VARSNYR) edit(QES10_30_3_C)(COL(2100),F(2));
get file(VARSNYR) edit(QES10_31_3_A)(COL(2102),F(2));
get file(VARSNYR) edit(QES10_31_3_B)(COL(2104),F(2));
get file(VARSNYR) edit(QES10_31_3_C)(COL(2106),F(2));
get file(VARSNYR) edit(QES10_30_4_A)(COL(2108),F(2));
get file(VARSNYR) edit(QES10_30_4_B)(COL(2110),F(2));
get file(VARSNYR) edit(QES10_30_4_C)(COL(2112),F(2));
get file(VARSNYR) edit(QES10_31_4_A)(COL(2114),F(2));
get file(VARSNYR) edit(QES10_31_4_B)(COL(2116),F(2));
get file(VARSNYR) edit(QES10_31_4_C)(COL(2118),F(2));
get file(VARSNYR) edit(QES10_30_5_A)(COL(2120),F(2));
get file(VARSNYR) edit(QES10_30_5_B)(COL(2122),F(2));
get file(VARSNYR) edit(QES10_30_5_C)(COL(2124),F(2));
get file(VARSNYR) edit(QES10_31_5_A)(COL(2126),F(2));
get file(VARSNYR) edit(QES10_31_5_B)(COL(2128),F(2));
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get file(VARSNYR) edit(QES10_31_5_C)(COL(2130),F(2));
get file(VARSNYR) edit(QES10_30_6_A)(COL(2132),F(2));
get file(VARSNYR) edit(QES10_30_6_B)(COL(2134),F(2));
get file(VARSNYR) edit(QES10_30_6_C)(COL(2136),F(2));
get file(VARSNYR) edit(QES10_31_6_A)(COL(2138),F(2));
get file(VARSNYR) edit(QES10_31_6_B)(COL(2140),F(2));
get file(VARSNYR) edit(QES10_31_6_C)(COL(2142),F(2));
get file(VARSNYR) edit(QES10_33_1)(COL(2144),F(2));
get file(VARSNYR) edit(QES10_34_1)(COL(2146),F(2));
get file(VARSNYR) edit(QES10_36_1)(COL(2148),F(2));
get file(VARSNYR) edit(QES10_40_1)(COL(2150),F(3));
get file(VARSNYR) edit(QES10_33_2)(COL(2153),F(2));
get file(VARSNYR) edit(QES10_34_2)(COL(2155),F(2));
get file(VARSNYR) edit(QES10_36_2)(COL(2157),F(2));
get file(VARSNYR) edit(QES10_40_2)(COL(2159),F(3));
get file(VARSNYR) edit(QES10_33_3)(COL(2162),F(2));
get file(VARSNYR) edit(QES10_34_3)(COL(2164),F(2));
get file(VARSNYR) edit(QES10_36_3)(COL(2166),F(2));
get file(VARSNYR) edit(QES10_40_3)(COL(2168),F(3));
get file(VARSNYR) edit(QES10_33_4)(COL(2171),F(2));
get file(VARSNYR) edit(QES10_34_4)(COL(2173),F(2));
get file(VARSNYR) edit(QES10_36_4)(COL(2175),F(2));
get file(VARSNYR) edit(QES10_40_4)(COL(2177),F(3));
get file(VARSNYR) edit(QES10_33_5)(COL(2180),F(2));
get file(VARSNYR) edit(QES10_34_5)(COL(2182),F(2));
get file(VARSNYR) edit(QES10_36_5)(COL(2184),F(2));
get file(VARSNYR) edit(QES10_40_5)(COL(2186),F(3));
get file(VARSNYR) edit(QES10_33_6)(COL(2189),F(2));
get file(VARSNYR) edit(QES10_34_6)(COL(2191),F(2));
get file(VARSNYR) edit(QES10_36_6)(COL(2193),F(2));
get file(VARSNYR) edit(QES10_40_6)(COL(2195),F(3));
get file(VARSNYR) edit(QES10_51  )(COL(2198),F(2));
get file(VARSNYR) edit(QES10_53A )(COL(2200),F(3));
get file(VARSNYR) edit(QES10_53D )(COL(2203),F(3));
get file(VARSNYR) edit(QES10_54A )(COL(2206),F(2));
get file(VARSNYR) edit(QES10_56A )(COL(2208),F(6));
get file(VARSNYR) edit(QES10_56B )(COL(2214),F(3));
get file(VARSNYR) edit(QES10_57  )(COL(2217),F(6));
get file(VARSNYR) edit(QES10_58A )(COL(2223),F(2));
get file(VARSNYR) edit(QES10_76  )(COL(2225),F(8));
get file(VARSNYR) edit(QES10_77  )(COL(2233),F(2));
get file(VARSNYR) edit(QES10_80  )(COL(2235),F(2));
get file(VARSNYR) edit(QES10_81  )(COL(2237),F(2));
get file(VARSNYR) edit(QES10_82  )(COL(2239),F(8));
get file(VARSNYR) edit(QES10_83  )(COL(2247),F(2));
get file(VARSNYR) edit(QES10_86  )(COL(2249),F(2));
get file(VARSNYR) edit(QES10_87  )(COL(2251),F(2));
get file(VARSNYR) edit(QES10_88  )(COL(2253),F(2));
get file(VARSNYR) edit(QES10_89  )(COL(2255),F(2));
get file(VARSNYR) edit(Q7_10_1_A )(COL(2257),F(2));
get file(VARSNYR) edit(Q7_10_1_B )(COL(2259),F(2));
get file(VARSNYR) edit(Q7_10_1_C )(COL(2261),F(2));
get file(VARSNYR) edit(Q7_11_1_A )(COL(2263),F(2));
get file(VARSNYR) edit(Q7_11_1_B )(COL(2265),F(2));
get file(VARSNYR) edit(Q7_11_1_C )(COL(2267),F(2));
get file(VARSNYR) edit(Q7_12_1   )(COL(2269),F(2)); get file(VARSNYR) edit(Q7_16_1   )(COL(2271),F(3));
```

get file(VARSNYR) edit(Q7_19_1   )(COL(2274),F(2)); get file(VARSNYR) edit(Q7_10_2_A)(COL(2276),F(2));
get file(VARSNYR) edit(Q7_10_2_B)(COL(2278),F(2));
get file(VARSNYR) edit(Q7_10_2_C)(COL(2280),F(2));
get file(VARSNYR) edit(Q7_11_2_A)(COL(2282),F(2));
get file(VARSNYR) edit(Q7_11_2_B)(COL(2284),F(2));
get file(VARSNYR) edit(Q7_11_2_C)(COL(2286),F(2));
get file(VARSNYR) edit(Q7_12_2   )(COL(2288),F(2)); get file(VARSNYR) edit(Q7_16_2   )(COL(2290),F(3));
get file(VARSNYR) edit(Q7_19_2   )(COL(2293),F(2)); get file(VARSNYR) edit(Q7_10_3_A)(COL(2295),F(2));
get file(VARSNYR) edit(Q7_10_3_B)(COL(2297),F(2));
get file(VARSNYR) edit(Q7_10_3_C)(COL(2299),F(2));
get file(VARSNYR) edit(Q7_11_3_A)(COL(2301),F(2));
get file(VARSNYR) edit(Q7_11_3_B)(COL(2303),F(2));
get file(VARSNYR) edit(Q7_11_3_C)(COL(2305),F(2));
get file(VARSNYR) edit(Q7_12_3   )(COL(2307),F(2)); get file(VARSNYR) edit(Q7_16_3   )(COL(2309),F(3));
get file(VARSNYR) edit(Q7_19_3   )(COL(2312),F(2)); get file(VARSNYR) edit(Q7_10_4_A)(COL(2314),F(2));
get file(VARSNYR) edit(Q7_10_4_B)(COL(2316),F(2));
get file(VARSNYR) edit(Q7_10_4_C)(COL(2318),F(2));
get file(VARSNYR) edit(Q7_11_4_A)(COL(2320),F(2));
get file(VARSNYR) edit(Q7_11_4_B)(COL(2322),F(2));
get file(VARSNYR) edit(Q7_11_4_C)(COL(2324),F(2));
get file(VARSNYR) edit(Q7_12_4   )(COL(2326),F(2)); get file(VARSNYR) edit(Q7_16_4   )(COL(2328),F(3));
get file(VARSNYR) edit(Q7_19_4   )(COL(2331),F(2)); get file(VARSNYR) edit(Q7_10_5_A)(COL(2333),F(2));
get file(VARSNYR) edit(Q7_10_5_B)(COL(2335),F(2));
get file(VARSNYR) edit(Q7_10_5_C)(COL(2337),F(2));
get file(VARSNYR) edit(Q7_11_5_A)(COL(2339),F(2));
get file(VARSNYR) edit(Q7_11_5_B)(COL(2341),F(2));
get file(VARSNYR) edit(Q7_11_5_C)(COL(2343),F(2));
get file(VARSNYR) edit(Q7_12_5   )(COL(2345),F(2)); get file(VARSNYR) edit(Q7_16_5   )(COL(2347),F(3));
get file(VARSNYR) edit(Q7_19_5   )(COL(2350),F(2)); get file(VARSNYR) edit(Q7_10_6_A)(COL(2352),F(2));
get file(VARSNYR) edit(Q7_10_6_B)(COL(2354),F(2));
get file(VARSNYR) edit(Q7_10_6_C)(COL(2356),F(2));
get file(VARSNYR) edit(Q7_11_6_A)(COL(2358),F(2));
get file(VARSNYR) edit(Q7_11_6_B)(COL(2360),F(2));
get file(VARSNYR) edit(Q7_11_6_C)(COL(2362),F(2));
get file(VARSNYR) edit(Q7_12_6   )(COL(2364),F(2)); get file(VARSNYR) edit(Q7_16_6   )(COL(2366),F(3));
get file(VARSNYR) edit(Q7_19_6   )(COL(2369),F(2));get file(VARSNYR) edit(FIXANS_376)(COL(2371),F(2));
get file(VARSNYR) edit(FIXANS_382)(COL(2373),F(2));
get file(VARSNYR) edit(FIXANS_384)(COL(2375),F(2));
get file(VARSNYR) edit(FIXANS_390)(COL(2377),F(2));
get file(VARSNYR) edit(FIXANS_392)(COL(2379),F(2));
get file(VARSNYR) edit(FIXANS_398)(COL(2381),F(2));
get file(VARSNYR) edit(FIXANS_400)(COL(2383),F(2));
get file(VARSNYR) edit(FIXANS_406)(COL(2385),F(2));
get file(VARSNYR) edit(FIXANS_408)(COL(2387),F(2));
get file(VARSNYR) edit(FIXANS_414)(COL(2389),F(2));
get file(VARSNYR) edit(FIXANS_416)(COL(2391),F(2));
get file(VARSNYR) edit(FIXANS_422)(COL(2393),F(2));
get file(VARSNYR) edit(FIXANS_424)(COL(2395),F(2));
get file(VARSNYR) edit(FIXANS_430)(COL(2397),F(2));
get file(VARSNYR) edit(FIXANS_432)(COL(2399),F(2));
get file(VARSNYR) edit(FIXANS_437)(COL(2401),F(2));
get file(VARSNYR) edit(FIXANS_439)(COL(2403),F(2));
get file(VARSNYR) edit(FIXANS_445)(COL(2405),F(2));
get file(VARSNYR) edit(FIXANS_447)(COL(2407),F(2));
get file(VARSNYR) edit(FIXANS_453)(COL(2409),F(2));
get file(VARSNYR) edit(FIXANS_474)(COL(2411),F(2));

```
get file(VARSNYR) edit(WT93     )(COL(2413),F(8));
/*end  %INCLUDE SYSLIB (WHCROSS )*****************************************/

/*************   CODE FOR CHECKING ID, SURVEY MATCHES
 if TEMCNT < 30 then do;
 put file(sysprint) edit(' TABLE CODE     ID=',ID) (skip(2),A,F(7,0));
 put file(sysprint) edit('TABLE CODE TABLE_ID=',TABLE_ID) (skip(1),A,F(7,0));
 put file(sysprint) edit(' TABLE CODE CAPI_ID=',CAPI_ID) (skip(1),A,F(7,0));
 put file(sysprint) edit(' TABLE CODE NORCIDS=',NORCIDS) (skip(1),A,F(7,0));
 put file(sysprint) edit(' NEWDATA WT93=    ',WT93) (skip(1),A,F(7,0));
            end;  *****************/
   kountnew=kountnew+1;
  end;
end;

 if (NORCIDS^=CAPI_ID) then go to SKIPME;

/* begin consolidation of CAPI variables to approximate PAPI variables */
/* mil start date - branch since dli - served active duty */
Q4_12MC=-4; Q4_12DC=-4; Q4_12YC=-4;
if Q4_12B_A>-4 then Q4_12MC=Q4_12B_A;        else if Q4_12C_A>=-4 then Q4_12MC=Q4_12C_A;
                                             else if WT93=0 then Q4_12MC=-5;
if Q4_12B_B>-4 then Q4_12DC=Q4_12B_B;        else if Q4_12C_B>=-4 then Q4_12DC=Q4_12C_B;
                                             else if WT93=0 then Q4_12DC=-5;
if Q4_12B_C>-4 then Q4_12YC=Q4_12B_C;        else if Q4_12C_C>=-4 then Q4_12YC=Q4_12C_C;
                                             else if WT93=0 then Q4_12YC=-5;
/* mil separation date - branch since dli - served active duty */
Q4_13_AC=-4; Q4_13_BC=-4; Q4_13_CC=-4;
if Q4_13_A>-4 then Q4_13_AC=Q4_13_A;         else if Q4_13A_A>=-4 then Q4_13_AC=Q4_13A_A;
                                             else if WT93=0 then Q4_13_AC=-5;
if Q4_13_B>-4 then Q4_13_BC=Q4_13_B;         else if Q4_13A_B>=-4 then Q4_13_BC=Q4_13A_B;
                                             else if WT93=0 then Q4_13_BC=-5;
if Q4_13_C>-4 then Q4_13_CC=Q4_13_C;         else if Q4_13A_C>=-4 then Q4_13_CC=Q4_13A_C;
                                             else if WT93=0 then Q4_13_CC=-5;


/* employer #1 */
/* start date */
QES1_8MC=-4; QES1_8DC=-4; QES1_8YC=-4;
if QES1_8_A>-4 then QES1_8MC=QES1_8_A;       else if QES1_8A_A>=-4 then QES1_8MC=QES1_8A_A;
                                             else if WT93=0 then QES1_8MC=-5;
if QES1_8_B>-4 then QES1_8DC=QES1_8_B;       else if QES1_8A_B>=-4 then QES1_8DC=QES1_8A_B;
                                             else if WT93=0 then QES1_8DC=-5;
if QES1_8_C>-4 then QES1_8YC=QES1_8_C;       else if QES1_8A_C>=-4 then QES1_8YC=QES1_8A_C;
                                             else if WT93=0 then QES1_8YC=-5;
/* wjg #1 reason */
QES1_33_1C=-4;
if QES1_34_1>-4 then QES1_33_1C=QES1_34_1;   else if QES1_33_1>=-4 then QES1_33_1C=QES1_33_1;
                                             else if WT93=0 then QES1_33_1C=-5;
/* wjg #2 reason */
QES1_33_2C=-4;
if QES1_34_2>-4 then QES1_33_2C=QES1_34_2;   else if QES1_33_2>=-4 then QES1_33_2C=QES1_33_2;
                                             else if WT93=0 then QES1_33_2C=-5;
/* wjg #3 reason */
QES1_33_3C=-4;
if QES1_34_3>-4 then QES1_33_3C=QES1_34_3;   else if QES1_33_3>=-4 then QES1_33_3C=QES1_33_3;
                                             else if WT93=0 then QES1_33_3C=-5;
```

```
/* wjg #4 reason */
QES1_33_4C=-4;
if QES1_34_4>-4 then QES1_33_4C=QES1_34_4;     else if QES1_33_4>=-4 then QES1_33_4C=QES1_33_4;
                                               else if WT93=0 then QES1_33_4C=-5;


/* employer #2 */
/* start date */
QES2_8MC=-4; QES2_8DC=-4; QES2_8YC=-4;
if QES2_8_A>-4 then QES2_8MC=QES2_8_A;         else if QES2_8A_A>=-4 then QES2_8MC=QES2_8A_A;
                                               else if WT93=0 then QES2_8MC=-5;
if QES2_8_B>-4 then QES2_8DC=QES2_8_B;         else if QES2_8A_B>=-4 then QES2_8DC=QES2_8A_B;
                                               else if WT93=0 then QES2_8DC=-5;
if QES2_8_C>-4 then QES2_8YC=QES2_8_C;         else if QES2_8A_C>=-4 then QES2_8YC=QES2_8A_C;
                                               else if WT93=0 then QES2_8YC=-5;

/* wjg #1 reason */
QES2_33_1C=-4;
if QES2_34_1>-4 then QES2_33_1C=QES2_34_1;     else if QES2_33_1>=-4 then QES2_33_1C=QES2_33_1;
                                               else if WT93=0 then QES2_33_1C=-5;

/* wjg #2 reason */
QES2_33_2C=-4;
if QES2_34_2>-4 then QES2_33_2C=QES2_34_2;     else if QES2_33_2>=-4 then QES2_33_2C=QES2_33_2;
                                               else if WT93=0 then QES2_33_2C=-5;

/* wjg #3 reason */
QES2_33_3C=-4;
if QES2_34_3>-4 then QES2_33_3C=QES2_34_3;     else if QES2_33_3>=-4 then QES2_33_3C=QES2_33_3;
                                               else if WT93=0 then QES2_33_3C=-5;

/* wjg #4 reason */
QES2_33_4C=-4;
if QES2_34_4>-4 then QES2_33_4C=QES2_34_4;     else if QES2_33_4>=-4 then QES2_33_4C=QES2_33_4;
                                               else if WT93=0 then QES2_33_4C=-5;


/* employer #3 */
/* start date */
QES3_8MC=-4; QES3_8DC=-4; QES3_8YC=-4;
if QES3_8_A>-4 then QES3_8MC=QES3_8_A;         else if QES3_8A_A>=-4 then QES3_8MC=QES3_8A_A;
                                               else if WT93=0 then QES3_8MC=-5;
if QES3_8_B>-4 then QES3_8DC=QES3_8_B;         else if QES3_8A_B>=-4 then QES3_8DC=QES3_8A_B;
                                               else if WT93=0 then QES3_8DC=-5;
if QES3_8_C>-4 then QES3_8YC=QES3_8_C;         else if QES3_8A_C>=-4 then QES3_8YC=QES3_8A_C;
                                               else if WT93=0 then QES3_8YC=-5;

/* wjg #1 reason */
QES3_33_1C=-4;
if QES3_34_1>-4 then QES3_33_1C=QES3_34_1;     else if QES3_33_1>=-4 then QES3_33_1C=QES3_33_1;
                                               else if WT93=0 then QES3_33_1C=-5;

/* wjg #2 reason */
QES3_33_2C=-4;
if QES3_34_2>-4 then QES3_33_2C=QES3_34_2;     else if QES3_33_2>=-4 then QES3_33_2C=QES3_33_2;
                                               else if WT93=0 then QES3_33_2C=-5;

/* wjg #3 reason */
QES3_33_3C=-4;
if QES3_34_3>-4 then QES3_33_3C=QES3_34_3;     else if QES3_33_3>=-4 then QES3_33_3C=QES3_33_3;
                                               else if WT93=0 then QES3_33_3C=-5;

/* wjg #4 reason */
QES3_33_4C=-4;
if QES3_34_4>-4 then QES3_33_4C=QES3_34_4;     else if QES3_33_4>=-4 then QES3_33_4C=QES3_33_4;
                                               else if WT93=0 then QES3_33_4C=-5;
```

```
/* employer #4 */
/* start date */
QES4_8MC=-4; QES4_8DC=-4; QES4_8YC=-4;
if QES4_8_A>-4 then QES4_8MC=QES4_8_A;        else if QES4_8A_A>=-4 then QES4_8MC=QES4_8A_A;
                                              else if WT93=0 then QES4_8MC=-5;
if QES4_8_B>-4 then QES4_8DC=QES4_8_B;        else if QES4_8A_B>=-4 then QES4_8DC=QES4_8A_B;
                                              else if WT93=0 then QES4_8DC=-5;
if QES4_8_C>-4 then QES4_8YC=QES4_8_C;        else if QES4_8A_C>=-4 then QES4_8YC=QES4_8A_C;
                                              else if WT93=0 then QES4_8YC=-5;

/* wjg #1 reason */
QES4_33_1C=-4;
if QES4_34_1>-4 then QES4_33_1C=QES4_34_1;    else if QES4_33_1>=-4 then QES4_33_1C=QES4_33_1;
                                              else if WT93=0 then QES4_33_1C=-5;

/* wjg #2 reason */
QES4_33_2C=-4;
if QES4_34_2>-4 then QES4_33_2C=QES4_34_2;    else if QES4_33_2>=-4 then QES4_33_2C=QES4_33_2;
                                              else if WT93=0 then QES4_33_2C=-5;

/* wjg #3 reason */
QES4_33_3C=-4;
if QES4_34_3>-4 then QES4_33_3C=QES4_34_3;    else if QES4_33_3>=-4 then QES4_33_3C=QES4_33_3;
                                              else if WT93=0 then QES4_33_3C=-5;

/* wjg #4 reason */
QES4_33_4C=-4;
if QES4_34_4>-4 then QES4_33_4C=QES4_34_4;    else if QES4_33_4>=-4 then QES4_33_4C=QES4_33_4;
                                              else if WT93=0 then QES4_33_4C=-5;


/* employer #5 */
/* start date */
QES5_8MC=-4; QES5_8DC=-4; QES5_8YC=-4;
if QES5_8_A>-4 then QES5_8MC=QES5_8_A;        else if QES5_8A_A>=-4 then QES5_8MC=QES5_8A_A;
                                              else if WT93=0 then QES5_8MC=-5;
if QES5_8_B>-4 then QES5_8DC=QES5_8_B;        else if QES5_8A_B>=-4 then QES5_8DC=QES5_8A_B;
                                              else if WT93=0 then QES5_8DC=-5;
if QES5_8_C>-4 then QES5_8YC=QES5_8_C;        else if QES5_8A_C>=-4 then QES5_8YC=QES5_8A_C;
                                              else if WT93=0 then QES5_8YC=-5;

/* wjg #1 reason */
QES5_33_1C=-4;
if QES5_34_1>-4 then QES5_33_1C=QES5_34_1;    else if QES5_33_1>=-4 then QES5_33_1C=QES5_33_1;
                                              else if WT93=0 then QES5_33_1C=-5;

/* wjg #2 reason */
QES5_33_2C=-4;
if QES5_34_2>-4 then QES5_33_2C=QES5_34_2;    else if QES5_33_2>=-4 then QES5_33_2C=QES5_33_2;
                                              else if WT93=0 then QES5_33_2C=-5;

/* wjg #3 reason */
QES5_33_3C=-4;
if QES5_34_3>-4 then QES5_33_3C=QES5_34_3;    else if QES5_33_3>=-4 then QES5_33_3C=QES5_33_3;
                                              else if WT93=0 then QES5_33_3C=-5;

/* wjg #4 reason */
QES5_33_4C=-4;
if QES5_34_4>-4 then QES5_33_4C=QES5_34_4;    else if QES5_33_4>=-4 then QES5_33_4C=QES5_33_4;
                                              else if WT93=0 then QES5_33_4C=-5;


/* employer #6 */
/* start date */
QES6_8MC=-4; QES6_8DC=-4; QES6_8YC=-4;
```

```
if QES6_8_A>-4 then QES6_8MC=QES6_8_A;          else if QES6_8A_A>=-4 then QES6_8MC=QES6_8A_A;
                                                 else if WT93=0 then QES6_8MC=-5;
if QES6_8_B>-4 then QES6_8DC=QES6_8_B;          else if QES6_8A_B>=-4 then QES6_8DC=QES6_8A_B;
                                                 else if WT93=0 then QES6_8DC=-5;
if QES6_8_C>-4 then QES6_8YC=QES6_8_C;          else if QES6_8A_C>=-4 then QES6_8YC=QES6_8A_C;
                                                 else if WT93=0 then QES6_8YC=-5;

/* wjg #1 reason */
QES6_33_1C=-4;
if QES6_34_1>-4 then QES6_33_1C=QES6_34_1;      else if QES6_33_1>=-4 then QES6_33_1C=QES6_33_1;
                                                 else if WT93=0 then QES6_33_1C=-5;

/* wjg #2 reason */
QES6_33_2C=-4;
if QES6_34_2>-4 then QES6_33_2C=QES6_34_2;      else if QES6_33_2>=-4 then QES6_33_2C=QES6_33_2;
                                                 else if WT93=0 then QES6_33_2C=-5;

/* wjg #3 reason */
QES6_33_3C=-4;
if QES6_34_3>-4 then QES6_33_3C=QES6_34_3;      else if QES6_33_3>=-4 then QES6_33_3C=QES6_33_3;
                                                 else if WT93=0 then QES6_33_3C=-5;

/* wjg #4 reason */
QES6_33_4C=-4;
if QES6_34_4>-4 then QES6_33_4C=QES6_34_4;      else if QES6_33_4>=-4 then QES6_33_4C=QES6_33_4;
                                                 else if WT93=0 then QES6_33_4C=-5;


/* employer #7 */
/* start date */
QES7_8MC=-4; QES7_8DC=-4; QES7_8YC=-4;
if QES7_8_A>-4 then QES7_8MC=QES7_8_A;          else if QES7_8A_A>=-4 then QES7_8MC=QES7_8A_A;
                                                 else if WT93=0 then QES7_8MC=-5;
if QES7_8_B>-4 then QES7_8DC=QES7_8_B;          else if QES7_8A_B>=-4 then QES7_8DC=QES7_8A_B;
                                                 else if WT93=0 then QES7_8DC=-5;
if QES7_8_C>-4 then QES7_8YC=QES7_8_C;          else if QES7_8A_C>=-4 then QES7_8YC=QES7_8A_C;
                                                 else if WT93=0 then QES7_8YC=-5;

/* wjg #1 reason */
QES7_33_1C=-4;
if QES7_34_1>-4 then QES7_33_1C=QES7_34_1;      else if QES7_33_1>=-4 then QES7_33_1C=QES7_33_1;
                                                 else if WT93=0 then QES7_33_1C=-5;

/* wjg #2 reason */
QES7_33_2C=-4;
if QES7_34_2>-4 then QES7_33_2C=QES7_34_2;      else if QES7_33_2>=-4 then QES7_33_2C=QES7_33_2;
                                                 else if WT93=0 then QES7_33_2C=-5;

/* wjg #3 reason */
QES7_33_3C=-4;
if QES7_34_3>-4 then QES7_33_3C=QES7_34_3;      else if QES7_33_3>=-4 then QES7_33_3C=QES7_33_3;
                                                 else if WT93=0 then QES7_33_3C=-5;

/* wjg #4 reason */
QES7_33_4C=-4;
if QES7_34_4>-4 then QES7_33_4C=QES7_34_4;      else if QES7_33_4>=-4 then QES7_33_4C=QES7_33_4;
                                                 else if WT93=0 then QES7_33_4C=-5;


/* employer #8 */
/* start date */
QES8_8MC=-4; QES8_8DC=-4; QES8_8YC=-4;
if QES8_8_A>-4 then QES8_8MC=QES8_8_A;          else if QES8_8A_A>=-4 then QES8_8MC=QES8_8A_A;
                                                 else if WT93=0 then QES8_8MC=-5;
if QES8_8_B>-4 then QES8_8DC=QES8_8_B;          else if QES8_8A_B>=-4 then QES8_8DC=QES8_8A_B;
                                                 else if WT93=0 then QES8_8DC=-5;
```

```
if QES8_8_C>-4 then QES8_8YC=QES8_8_C;        else if QES8_8A_C>=-4 then QES8_8YC=QES8_8A_C;
                                               else if WT93=0 then QES8_8YC=-5;

/* wjg #1 reason */
QES8_33_1C=-4;
if QES8_34_1>-4 then QES8_33_1C=QES8_34_1;    else if QES8_33_1>=-4 then QES8_33_1C=QES8_33_1;
                                               else if WT93=0 then QES8_33_1C=-5;

/* wjg #2 reason */
QES8_33_2C=-4;
if QES8_34_2>-4 then QES8_33_2C=QES8_34_2;    else if QES8_33_2>=-4 then QES8_33_2C=QES8_33_2;
                                               else if WT93=0 then QES8_33_2C=-5;

/* wjg #3 reason */
QES8_33_3C=-4;
if QES8_34_3>-4 then QES8_33_3C=QES8_34_3;    else if QES8_33_3>=-4 then QES8_33_3C=QES8_33_3;
                                               else if WT93=0 then QES8_33_3C=-5;

/* wjg #4 reason */
QES8_33_4C=-4;
if QES8_34_4>-4 then QES8_33_4C=QES8_34_4;    else if QES8_33_4>=-4 then QES8_33_4C=QES8_33_4;
                                               else if WT93=0 then QES8_33_4C=-5;


/* employer #9 */
/* start date */
QES9_8MC=-4; QES9_8DC=-4; QES9_8YC=-4;
if QES9_8_A>-4 then QES9_8MC=QES9_8_A;        else if QES9_8A_A>=-4 then QES9_8MC=QES9_8A_A;
                                               else if WT93=0 then QES9_8MC=-5;
if QES9_8_B>-4 then QES9_8DC=QES9_8_B;        else if QES9_8A_B>=-4 then QES9_8DC=QES9_8A_B;
                                               else if WT93=0 then QES9_8DC=-5;
if QES9_8_C>-4 then QES9_8YC=QES9_8_C;        else if QES9_8A_C>=-4 then QES9_8YC=QES9_8A_C;
                                               else if WT93=0 then QES9_8YC=-5;

/* wjg #1 reason */
QES9_33_1C=-4;
if QES9_34_1>-4 then QES9_33_1C=QES9_34_1;    else if QES9_33_1>=-4 then QES9_33_1C=QES9_33_1;
                                               else if WT93=0 then QES9_33_1C=-5;

/* wjg #2 reason */
QES9_33_2C=-4;
if QES9_34_2>-4 then QES9_33_2C=QES9_34_2;    else if QES9_33_2>=-4 then QES9_33_2C=QES9_33_2;
                                               else if WT93=0 then QES9_33_2C=-5;

/* wjg #3 reason */
QES9_33_3C=-4;
if QES9_34_3>-4 then QES9_33_3C=QES9_34_3;    else if QES9_33_3>=-4 then QES9_33_3C=QES9_33_3;
                                               else if WT93=0 then QES9_33_3C=-5;

/* wjg #4 reason */
QES9_33_4C=-4;
if QES9_34_4>-4 then QES9_33_4C=QES9_34_4;    else if QES9_33_4>=-4 then QES9_33_4C=QES9_33_4;
                                               else if WT93=0 then QES9_33_4C=-5;


/* employer #10 */
/* start date */
QES10_8MC=-4; QES10_8DC=-4; QES10_8YC=-4;
if QES10_8_A>-4 then QES10_8MC=QES10_8_A;  else if QES10_8A_A>=-4 then QES10_8MC=QES10_8A_A;
                                            else if WT93=0 then QES10_8MC=-5;
if QES10_8_B>-4 then QES10_8DC=QES10_8_B;  else if QES10_8A_B>=-4 then QES10_8DC=QES10_8A_B;
                                            else if WT93=0 then QES10_8DC=-5;
if QES10_8_C>-4 then QES10_8YC=QES10_8_C;  else if QES10_8A_C>=-4 then QES10_8YC=QES10_8A_C;
                                            else if WT93=0 then QES10_8YC=-5;
/* wjg #1 reason */
QES10_33_1C=-4;
```

```
if QES10_34_1>-4 then QES10_33_1C=QES10_34_1;
         else if QES10_33_1>=-4 then QES10_33_1C=QES10_33_1;
         else if WT93=0 then QES10_33_1C=-5;
/* wjg #2 reason */
QES10_33_2C=-4;
if QES10_34_2>-4 then QES10_33_2C=QES10_34_2;
         else if QES10_33_2>=-4 then QES10_33_2C=QES10_33_2;
         else if WT93=0 then QES10_33_2C=-5;
/* wjg #3 reason */
QES10_33_3C=-4;
if QES10_34_3>-4 then QES10_33_3C=QES10_34_3;
         else if QES10_33_3>=-4 then QES10_33_3C=QES10_33_3;
         else if WT93=0 then QES10_33_3C=-5;
/* wjg #4 reason */
QES10_33_4C=-4;
if QES10_34_4>-4 then QES10_33_4C=QES10_34_4;
         else if QES10_33_4>=-4 then QES10_33_4C=QES10_33_4;
         else if WT93=0 then QES10_33_4C=-5;


/* previousemp corrected to -4 from 0  */
 if FIXANS_376 = 0 then FIXANS_376 = -4;         if FIXANS_384 = 0 then FIXANS_384 = -4;
 if FIXANS_392 = 0 then FIXANS_392 = -4;         if FIXANS_400 = 0 then FIXANS_400 = -4;
 if FIXANS_408 = 0 then FIXANS_408 = -4;         if FIXANS_416 = 0 then FIXANS_416 = -4;
 if FIXANS_424 = 0 then FIXANS_424 = -4;         if FIXANS_432 = 0 then FIXANS_432 = -4;
 if FIXANS_439 = 0 then FIXANS_439 = -4;         if FIXANS_447 = 0 then FIXANS_447 = -4;


/* occupation corrected to -4 from 0  */
 if QES1_56A = 0 then QES1_56A = -4;    if QES2_56A = 0 then QES2_56A = -4;
 if QES3_56A = 0 then QES3_56A = -4;    if QES4_56A = 0 then QES4_56A = -4;
 if QES5_56A = 0 then QES5_56A = -4;    if QES6_56A = 0 then QES6_56A = -4;
 if QES7_56A = 0 then QES7_56A = -4;    if QES8_56A = 0 then QES8_56A = -4;
 if QES9_56A = 0 then QES9_56A = -4;    if QES10_56A = 0 then QES10_56A = -4;
/* end consolidation of CAPI variables to approximate PAPI variables */


/*  no rewrites to 1993 data tape */

SKIPME:
  PR=1;
  do J=2 to NEWYEAR-1;
    if OLDHIST(J).OWT > 0 then PR=J;
  end;
  WORK_HISTORY(NEWYEAR)=-4;
  CPS_HOURLYWAGE(NEWYEAR)=-4;
  if (NORCIDS^=CAPI_ID) then do; /* skipme: missing newyear w.h. data */
   /* if newdata file had 12686 cases this should be true of  wt93=0; */
    CPS_HOURLYWAGE(NEWYEAR)=-5;
    WORK_HISTORY(NEWYEAR)=-5;
    WORK_HISTORY.WEIGHT(NEWYEAR)=0 ;
    WTZERO=WTZERO+1;
  end;
  else do;
    call NEWVARIABLES;     /* read addjob variables */
    call CALC(NEWYEAR);
    call SUMMER(NEWYEAR);
    do I = 1 to 5;  /** COMPUTE CPS HOURLY WAGE **/
      if WORK_HISTORY.CPSJOB(NEWYEAR,I)=1 then CPS_HOURLYWAGE(NEWYEAR)=
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      WORK_HISTORY.HOURLYWAGE(NEWYEAR,I);
   end;

   /*** COMPUTE CURRENT JOBEVER() ***/
   WORK_HISTORY.JOBEVER(NEWYEAR)=0;
   /* find greatest job cnt in hold hist */
   do I = (NEWYEAR-1) to 1 by -1 WHILE(WORK_HISTORY.JOBEVER(NEWYEAR)=0);
     if OLDHIST(I).OJOBEVER= -3 then WORK_HISTORY.JOBEVER(NEWYEAR)=-3;
     else if OLDHIST(I).OJOBEVER>0 then WORK_HISTORY.JOBEVER(NEWYEAR)=
        OLDHIST(I).OJOBEVER;
   end;
   if WORK_HISTORY.JOBEVER(NEWYEAR)>=0 then do;
    /* add any additional jobs ?        */
     do I=1 to 10;
       if (WORK_HISTORY.NUMBER(NEWYEAR,I)>100 &
         (WORK_HISTORY.PREVIOUSEMP#(NEWYEAR,I)= -3
          | WORK_HISTORY.PREVIOUSEMP#(NEWYEAR,I)=0) )
          then WORK_HISTORY.JOBEVER(NEWYEAR)=-3;
       else if (WORK_HISTORY.NUMBER(NEWYEAR,I)>100 &
           WORK_HISTORY.PREVIOUSEMP#(NEWYEAR,I)=-4 &
           WORK_HISTORY.JOBEVER(NEWYEAR)>=0 )
        then WORK_HISTORY.JOBEVER(NEWYEAR)= WORK_HISTORY.JOBEVER(NEWYEAR)+1;
     end;
   end;
 end;

/* move first 5 jobs into output structure */
WORK_HISTORY_5JOB(NEWYEAR).WEIGHT =WORK_HISTORY(NEWYEAR).WEIGHT;
WORK_HISTORY_5JOB(NEWYEAR).LASTINT=WORK_HISTORY(NEWYEAR).LASTINT;
WORK_HISTORY_5JOB(NEWYEAR).INT   =WORK_HISTORY(NEWYEAR).INT;
WORK_HISTORY_5JOB(NEWYEAR).INTM  =WORK_HISTORY(NEWYEAR).INTM;
WORK_HISTORY_5JOB(NEWYEAR).INTD  =WORK_HISTORY(NEWYEAR).INTD;
WORK_HISTORY_5JOB(NEWYEAR).INTY  =WORK_HISTORY(NEWYEAR).INTY;
WORK_HISTORY_5JOB(NEWYEAR).JOB(1) =WORK_HISTORY(NEWYEAR).JOB(1);
WORK_HISTORY_5JOB(NEWYEAR).JOB(2) =WORK_HISTORY(NEWYEAR).JOB(2);
WORK_HISTORY_5JOB(NEWYEAR).JOB(3) =WORK_HISTORY(NEWYEAR).JOB(3);
WORK_HISTORY_5JOB(NEWYEAR).JOB(4) =WORK_HISTORY(NEWYEAR).JOB(4);
WORK_HISTORY_5JOB(NEWYEAR).JOB(5) =WORK_HISTORY(NEWYEAR).JOB(5);
WORK_HISTORY_5JOB(NEWYEAR).BETWEEN_JOBS(1)=
   WORK_HISTORY(NEWYEAR).BETWEEN_JOBS(1);
WORK_HISTORY_5JOB(NEWYEAR).BETWEEN_JOBS(2)=
   WORK_HISTORY(NEWYEAR).BETWEEN_JOBS(2);
WORK_HISTORY_5JOB(NEWYEAR).BETWEEN_JOBS(3)=
   WORK_HISTORY(NEWYEAR).BETWEEN_JOBS(3);
WORK_HISTORY_5JOB(NEWYEAR).BETWEEN_JOBS(4)=
   WORK_HISTORY(NEWYEAR).BETWEEN_JOBS(4);
WORK_HISTORY_5JOB(NEWYEAR).BETWEEN_JOBS(5)=
   WORK_HISTORY(NEWYEAR).BETWEEN_JOBS(5);
WORK_HISTORY_5JOB(NEWYEAR).BETWEEN_JOBS(6)=
   WORK_HISTORY(NEWYEAR).BETWEEN_JOBS(6);
WORK_HISTORY_5JOB(NEWYEAR).MILITARY=WORK_HISTORY(NEWYEAR).MILITARY;
WORK_HISTORY_5JOB(NEWYEAR).WORKC=WORK_HISTORY(NEWYEAR).WORKC;
WORK_HISTORY_5JOB(NEWYEAR).HOURC=WORK_HISTORY(NEWYEAR).HOURC;
WORK_HISTORY_5JOB(NEWYEAR).WUMPC=WORK_HISTORY(NEWYEAR).WUMPC;
WORK_HISTORY_5JOB(NEWYEAR).WOLFC=WORK_HISTORY(NEWYEAR).WOLFC;
WORK_HISTORY_5JOB(NEWYEAR).CAL_YEAR_JOBS=
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     WORK_HISTORY(NEWYEAR).CAL_YEAR_JOBS;
  WORK_HISTORY_5JOB(NEWYEAR).CAL_YEAR_JOB#(1)=
     WORK_HISTORY(NEWYEAR).CAL_YEAR_JOB#(1);
  WORK_HISTORY_5JOB(NEWYEAR).CAL_YEAR_JOB#(2)=
     WORK_HISTORY(NEWYEAR).CAL_YEAR_JOB#(2);
  WORK_HISTORY_5JOB(NEWYEAR).CAL_YEAR_JOB#(3)=
     WORK_HISTORY(NEWYEAR).CAL_YEAR_JOB#(3);
  WORK_HISTORY_5JOB(NEWYEAR).CAL_YEAR_JOB#(4)=
     WORK_HISTORY(NEWYEAR).CAL_YEAR_JOB#(4);
  WORK_HISTORY_5JOB(NEWYEAR).CAL_YEAR_JOB#(5)=
     WORK_HISTORY(NEWYEAR).CAL_YEAR_JOB#(5);
  WORK_HISTORY_5JOB(NEWYEAR).MISSC  =WORK_HISTORY(NEWYEAR).MISSC;
  WORK_HISTORY_5JOB(NEWYEAR).NWMISSC=WORK_HISTORY(NEWYEAR).NWMISSC;
  WORK_HISTORY_5JOB(NEWYEAR). LASTINT_SUM=WORK_HISTORY(NEWYEAR).LASTINT_SUM;
   write file(NEWWORK) from (VARIABLES);
   kount_out=kount_out+1;
   put file(OUTDISK) edit (
     ID,WORK_HISTORY.MILWKSL(NEWYEAR),WORK_HISTORY.MILWKSC(NEWYEAR),
         WORK_HISTORY.WORKC(NEWYEAR),WORK_HISTORY.HOURC(NEWYEAR),
         WORK_HISTORY.WUMPC(NEWYEAR),WORK_HISTORY.WOLFC(NEWYEAR),
         WORK_HISTORY.MISSC(NEWYEAR),WORK_HISTORY.WORKL(NEWYEAR),
         WORK_HISTORY.HOURL(NEWYEAR),WORK_HISTORY.WUMPL(NEWYEAR),
         WORK_HISTORY.WOLFL(NEWYEAR),WORK_HISTORY.WBID(NEWYEAR),
         WORK_HISTORY.MISSL(NEWYEAR),CPS_HOURLYWAGE(NEWYEAR),
         WORK_HISTORY.HOURLYWAGE(NEWYEAR,1),
         WORK_HISTORY.HOURLYWAGE(NEWYEAR,2),
         WORK_HISTORY.HOURLYWAGE(NEWYEAR,3),
         WORK_HISTORY.HOURLYWAGE(NEWYEAR,4),
         WORK_HISTORY.HOURLYWAGE(NEWYEAR,5), WORK_HISTORY.JOBEVER(NEWYEAR),
         WORK_HISTORY.WEIGHT(NEWYEAR), WORK_HISTORY.TENURE(NEWYEAR,1),
         WORK_HISTORY.TENURE(NEWYEAR,2), WORK_HISTORY.TENURE(NEWYEAR,3),
         WORK_HISTORY.TENURE(NEWYEAR,4), WORK_HISTORY.TENURE(NEWYEAR,5))
     (COL(1),27(F(7)));
  /***************** file FOR CHECKING MATCHES
   if (( WORK_HISTORY.INTY(NEWYEAR) ^= 93 |
      WORK_HISTORY_5JOB.INTY(NEWYEAR) ^= 93) & TEMCNT <= 30) | kount_out < 11 then do ;
put file(sysprint) edit(' ERR on SURVEY YEAR ID=',ID) (skip(2),A,F(7,0));
put file(sysprint) edit('WORK_HISTORY.INTY(NEWYEAR)    ' ,
WORK_HISTORY.INTY(NEWYEAR) )(skip(1),A,F(7,0));
put file(sysprint) edit('WORK_HISTORY_5JOB.INTY(NEWYEAR) ',
WORK_HISTORY_5JOB.INTY(NEWYEAR))(skip(1),A,F(7,0));
put file(sysprint) edit('WORK_HISTORY_5JOB.WORKC(NEWYEAR ',
WORK_HISTORY_5JOB.WORKC(NEWYEAR))(skip(1),A,F(7,0));
put file(sysprint) edit('WORK_HISTORY_5JOB.HOURC(NEWYEAR ',
 WORK_HISTORY_5JOB.HOURC(NEWYEAR))(skip(1),A,F(7,0));
put file(sysprint) edit('WORK_HISTORY_5JOB.WUMPC(NEWYEAR ',
WORK_HISTORY_5JOB.WUMPC(NEWYEAR))(skip(1),A,F(7,0));
put file(sysprint) edit('WORK_HISTORY_5JOB.WOLFC(NEWYEAR ',
WORK_HISTORY_5JOB.WOLFC(NEWYEAR))(skip(1),A,F(7,0));
put file(sysprint) edit('WORK_HISTORY_5JOB.MISSC(NEWYEAR ',
WORK_HISTORY_5JOB.MISSC(NEWYEAR))(skip(1),A,F(7,0));
put file(sysprint) edit('WORK_HISTORY_5JOB.WORKL(NEWYEAR ',
WORK_HISTORY_5JOB.WORKL(NEWYEAR))(skip(1),A,F(7,0));
put file(sysprint) edit('WORK_HISTORY_5JOB.HOURL(NEWYEAR ',
WORK_HISTORY_5JOB.HOURL(NEWYEAR))(skip(1),A,F(7,0));
put file(sysprint) edit('WORK_HISTORY_5JOB.WUMPL(NEWYEAR ',
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WORK_HISTORY_5JOB.WUMPL(NEWYEAR))(skip(1),A,F(7,0));
put file(sysprint) edit('WORK_HISTORY_5JOB.WOLFL(NEWYEAR ',
WORK_HISTORY_5JOB.WOLFL(NEWYEAR))(skip(1),A,F(7,0));
put file(sysprint) edit('WORK_HISTORY_5JOB.WBID(NEWYEAR) ',
WORK_HISTORY_5JOB.WBID(NEWYEAR))(skip(1),A,F(7,0));
put file(sysprint) edit('WORK_HISTORY_5JOB.MISSL(NEWYEAR ',
WORK_HISTORY_5JOB.MISSL(NEWYEAR))(skip(1),A,F(7,0));
put file(sysprint) edit('WORK_HISTORY_5JOB.JOBEVER(NEWYE ',
WORK_HISTORY_5JOB.JOBEVER(NEWYEAR))(skip(1),A,F(7,0));
put file(sysprint) edit('WORK_HISTORY_5JOB.TENURE(NEWYEA ',
WORK_HISTORY_5JOB.TENURE(NEWYEAR,1))(skip(1),A,F(7,0));
put file(sysprint) edit('WORK_HISTORY_5JOB.WEIGHT(NEWYEA ',
 WORK_HISTORY_5JOB.WEIGHT(NEWYEAR))(skip(1),A,F(7,0));
put file(sysprint) edit('WT93 =  ',WT93)(skip(1),A,F(7,0));
    TEMCNT= TEMCNT + 1;
end;   ****************/
  go to READ1;  /*** MAIN LOOP ***/

1NEWVARIABLES:PROC;
/*  dcl addjvbls(586) float dec(6); */
 WORK_HISTORY.WEIGHT(NEWYEAR)=WT93;
 WORK_HISTORY.STARTM(NEWYEAR,1)=QES1_8MC;
 WORK_HISTORY.STARTD(NEWYEAR,1)=QES1_8DC;
 WORK_HISTORY.STARTY(NEWYEAR,1)=QES1_8YC;
 WORK_HISTORY.STARTM(NEWYEAR,2)=QES2_8MC;
 WORK_HISTORY.STARTD(NEWYEAR,2)=QES2_8DC;
 WORK_HISTORY.STARTY(NEWYEAR,2)=QES2_8YC;
 WORK_HISTORY.STARTM(NEWYEAR,3)=QES3_8MC;
 WORK_HISTORY.STARTD(NEWYEAR,3)=QES3_8DC;
 WORK_HISTORY.STARTY(NEWYEAR,3)=QES3_8YC;
 WORK_HISTORY.STARTM(NEWYEAR,4)=QES4_8MC;
 WORK_HISTORY.STARTD(NEWYEAR,4)=QES4_8DC;
 WORK_HISTORY.STARTY(NEWYEAR,4)=QES4_8YC;
 WORK_HISTORY.STARTM(NEWYEAR,5)=QES5_8MC;
 WORK_HISTORY.STARTD(NEWYEAR,5)=QES5_8DC;
 WORK_HISTORY.STARTY(NEWYEAR,5)=QES5_8YC;
 WORK_HISTORY.STOPM(NEWYEAR,1)=QES1_26_A;
 WORK_HISTORY.STOPD(NEWYEAR,1)=QES1_26_B;
 WORK_HISTORY.STOPY(NEWYEAR,1)=QES1_26_C;
 WORK_HISTORY.STOPM(NEWYEAR,2)=QES2_26_A;
 WORK_HISTORY.STOPD(NEWYEAR,2)=QES2_26_B;
 WORK_HISTORY.STOPY(NEWYEAR,2)=QES2_26_C;
 WORK_HISTORY.STOPM(NEWYEAR,3)=QES3_26_A;
 WORK_HISTORY.STOPD(NEWYEAR,3)=QES3_26_B;
 WORK_HISTORY.STOPY(NEWYEAR,3)=QES3_26_C;
 WORK_HISTORY.STOPM(NEWYEAR,4)=QES4_26_A;
 WORK_HISTORY.STOPD(NEWYEAR,4)=QES4_26_B;
 WORK_HISTORY.STOPY(NEWYEAR,4)=QES4_26_C;
 WORK_HISTORY.STOPM(NEWYEAR,5)=QES5_26_A;
 WORK_HISTORY.STOPD(NEWYEAR,5)=QES5_26_B;
 WORK_HISTORY.STOPY(NEWYEAR,5)=QES5_26_C;
 WORK_HISTORY.LASTINT(NEWYEAR)=
  CEIL(WEEK(OLDHIST(PR).OINTM,OLDHIST(PR).OINTD,OLDHIST(PR).OINTY)+1/7);
 WORK_HISTORY.INT(NEWYEAR)=FLOOR(WEEK(Q_1C_A,Q_1C_B,SURVEY_YR));
 WORK_HISTORY.INTM(NEWYEAR)=Q_1C_A;
 WORK_HISTORY.INTD(NEWYEAR)=Q_1C_B;
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 /* if work_history.int(newyear)=-3 then work_history.int(newyear)=-3; */
if WORK_HISTORY.WEIGHT(NEWYEAR)>0 then WORK_HISTORY.INTY(NEWYEAR)=SURVEY_YR;
WORK_HISTORY.HOURDAY(NEWYEAR,1)=QES1_51;
WORK_HISTORY.HOURDAY(NEWYEAR,2)=QES2_51;
WORK_HISTORY.HOURDAY(NEWYEAR,3)=QES3_51;
WORK_HISTORY.HOURDAY(NEWYEAR,4)=QES4_51;
WORK_HISTORY.HOURDAY(NEWYEAR,5)=QES5_51;
WORK_HISTORY.PAYRATE(NEWYEAR,1)=QES1_76;
WORK_HISTORY.PAYRATE(NEWYEAR,2)=QES2_76;
WORK_HISTORY.PAYRATE(NEWYEAR,3)=QES3_76;
WORK_HISTORY.PAYRATE(NEWYEAR,4)=QES4_76;
WORK_HISTORY.PAYRATE(NEWYEAR,5)=QES5_76;
WORK_HISTORY.TIMERATE(NEWYEAR,1)=QES1_77;
WORK_HISTORY.TIMERATE(NEWYEAR,2)=QES2_77;
WORK_HISTORY.TIMERATE(NEWYEAR,3)=QES3_77;
WORK_HISTORY.TIMERATE(NEWYEAR,4)=QES4_77;
WORK_HISTORY.TIMERATE(NEWYEAR,5)=QES5_77;
WORK_HISTORY.UNION(NEWYEAR,1)=QES1_87;
WORK_HISTORY.UNION(NEWYEAR,2)=QES2_87;
WORK_HISTORY.UNION(NEWYEAR,3)=QES3_87;
WORK_HISTORY.UNION(NEWYEAR,4)=QES4_87;
WORK_HISTORY.UNION(NEWYEAR,5)=QES5_87;
WORK_HISTORY.GOVTJOB(NEWYEAR,1)=-4;
WORK_HISTORY.GOVTJOB(NEWYEAR,2)=-4;
WORK_HISTORY.GOVTJOB(NEWYEAR,3)=-4;
WORK_HISTORY.GOVTJOB(NEWYEAR,4)=-4;
WORK_HISTORY.GOVTJOB(NEWYEAR,5)=-4;
WORK_HISTORY.PREVIOUSEMP#(NEWYEAR,1)=FIXANS_376;
WORK_HISTORY.PREVIOUSEMP#(NEWYEAR,2)=FIXANS_384;
WORK_HISTORY.PREVIOUSEMP#(NEWYEAR,3)=FIXANS_392;
WORK_HISTORY.PREVIOUSEMP#(NEWYEAR,4)=FIXANS_400;
WORK_HISTORY.PREVIOUSEMP#(NEWYEAR,5)=FIXANS_408;
WORK_HISTORY.PRETEN(NEWYEAR,1)=QES1_6;
WORK_HISTORY.PRETEN(NEWYEAR,2)=QES2_6;
WORK_HISTORY.PRETEN(NEWYEAR,3)=QES3_6;
WORK_HISTORY.PRETEN(NEWYEAR,4)=QES4_6;
WORK_HISTORY.PRETEN(NEWYEAR,5)=QES5_6;
if QES1_8MC>-4 then do;
  WORK_HISTORY.START(NEWYEAR,1)=WEEK(QES1_8MC,QES1_8DC,QES1_8YC);
  WORK_HISTORY.STOP(NEWYEAR,1)=WEEK(QES1_26_A,QES1_26_B,QES1_26_C);
end;
if QES2_8MC>-4 then do;
  WORK_HISTORY.START(NEWYEAR,2)=WEEK(QES2_8MC,QES2_8DC,QES2_8YC);
  WORK_HISTORY.STOP(NEWYEAR,2)=WEEK(QES2_26_A,QES2_26_B,QES2_26_C);
end;
if QES3_8MC>-4 then do;
  WORK_HISTORY.START(NEWYEAR,3)=WEEK(QES3_8MC,QES3_8DC,QES3_8YC);
  WORK_HISTORY.STOP(NEWYEAR,3)=WEEK(QES3_26_A,QES3_26_B,QES3_26_C);
end;
if QES4_8MC>-4 then do;
  WORK_HISTORY.START(NEWYEAR,4)=WEEK(QES4_8MC,QES4_8DC,QES4_8YC);
  WORK_HISTORY.STOP(NEWYEAR,4)=WEEK(QES4_26_A,QES4_26_B,QES4_26_C);
end;
if QES5_8MC>-4 then do;
  WORK_HISTORY.START(NEWYEAR,5)=WEEK(QES5_8MC,QES5_8DC,QES5_8YC);
  WORK_HISTORY.STOP(NEWYEAR,5)=WEEK(QES5_26_A,QES5_26_B,QES5_26_C);
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end;
WORK_HISTORY.PAST(NEWYEAR,1)=QES1_4B;
WORK_HISTORY.PAST(NEWYEAR,2)=QES2_4B;
WORK_HISTORY.PAST(NEWYEAR,3)=QES3_4B;
WORK_HISTORY.PAST(NEWYEAR,4)=QES4_4B;
WORK_HISTORY.PAST(NEWYEAR,5)=QES5_4B;
WORK_HISTORY.CURRENT(NEWYEAR,1)=QES1_23;
WORK_HISTORY.CURRENT(NEWYEAR,2)=QES2_23;
WORK_HISTORY.CURRENT(NEWYEAR,3)=QES3_23;
WORK_HISTORY.CURRENT(NEWYEAR,4)=QES4_23;
WORK_HISTORY.CURRENT(NEWYEAR,5)=QES5_23;
WORK_HISTORY.WHYLEFT(NEWYEAR,1)=QES1_23A;
WORK_HISTORY.WHYLEFT(NEWYEAR,2)=QES2_23A;
WORK_HISTORY.WHYLEFT(NEWYEAR,3)=QES3_23A;
WORK_HISTORY.WHYLEFT(NEWYEAR,4)=QES4_23A;
WORK_HISTORY.WHYLEFT(NEWYEAR,5)=QES5_23A;
WORK_HISTORY.WEEKSNOTWORKED(NEWYEAR,1)=QES1_28;
WORK_HISTORY.WEEKSNOTWORKED(NEWYEAR,2)=QES2_28;
WORK_HISTORY.WEEKSNOTWORKED(NEWYEAR,3)=QES3_28;
WORK_HISTORY.WEEKSNOTWORKED(NEWYEAR,4)=QES4_28;
WORK_HISTORY.WEEKSNOTWORKED(NEWYEAR,5)=QES5_28;
WORK_HISTORY.CPSJOB(NEWYEAR,1)=QES1_52;
if QES2_23 ^= -4 then WORK_HISTORY.CPSJOB(NEWYEAR,2)=0;
else WORK_HISTORY.CPSJOB(NEWYEAR,2)=-4;
if QES3_23 ^= -4 then WORK_HISTORY.CPSJOB(NEWYEAR,3)=0;
else WORK_HISTORY.CPSJOB(NEWYEAR,3)=-4;
if QES4_23 ^= -4 then WORK_HISTORY.CPSJOB(NEWYEAR,4)=0;
else WORK_HISTORY.CPSJOB(NEWYEAR,4)=-4;
if QES5_23 ^= -4 then WORK_HISTORY.CPSJOB(NEWYEAR,5)=0;
else WORK_HISTORY.CPSJOB(NEWYEAR,5)=-4;
if QES1_52=1 then do;
  WORK_HISTORY.INDUSTRY(NEWYEAR,1)=Q6_52;
  WORK_HISTORY.OCCUPATION(NEWYEAR,1)=Q6_53;
  WORK_HISTORY.CLASSWORKER(NEWYEAR,1)=Q6_56;
  if Q6_62=-4 then WORK_HISTORY.HOURSWEEK(NEWYEAR,1)=Q6_59;
  else if Q6_62^=-4 then WORK_HISTORY.HOURSWEEK(NEWYEAR,1)=Q6_62;
end;
else do;
  WORK_HISTORY.INDUSTRY(NEWYEAR,1)=QES1_57;
  WORK_HISTORY.OCCUPATION(NEWYEAR,1)=QES1_56A;
  WORK_HISTORY.CLASSWORKER(NEWYEAR,1)=QES1_58A;
  if QES1_53D=-4 then WORK_HISTORY.HOURSWEEK(NEWYEAR,1)=QES1_53A;
  else if QES1_53D^=-4 then WORK_HISTORY.HOURSWEEK(NEWYEAR,1)=QES1_53D;
end;
/* if QC435=1 then do;                  */
/*   WORK_HISTORY.INDUSTRY(NEWYEAR,2)=Q1245;    */
/*   WORK_HISTORY.OCCUPATION(NEWYEAR,2)=Q1248;   */
/*   WORK_HISTORY.CLASSWORKER(NEWYEAR,2)=Q1259;  */
/*   if Q1271=-4 then WORK_HISTORY.HOURSWEEK(NEWYEAR,2)=Q1265; */
/*   else if Q1271^=-4 then WORK_HISTORY.HOURSWEEK(NEWYEAR,2)=q1271; */
/* end;                          */
WORK_HISTORY.INDUSTRY(NEWYEAR,2)=QES2_57;
WORK_HISTORY.OCCUPATION(NEWYEAR,2)=QES2_56A;
WORK_HISTORY.CLASSWORKER(NEWYEAR,2)=QES2_58A;
if QES2_53D=-4 then WORK_HISTORY.HOURSWEEK(NEWYEAR,2)=QES2_53A;
else if QES2_53D^=-4 then WORK_HISTORY.HOURSWEEK(NEWYEAR,2)=QES2_53D;
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/* if QD435=1 then do;                         */
/*    WORK_HISTORY.INDUSTRY(NEWYEAR,3)=Q1245;    */
/*    WORK_HISTORY.OCCUPATION(NEWYEAR,3)=Q1248;  */
/*    WORK_HISTORY.CLASSWORKER(NEWYEAR,3)=Q1259; */
/*    if Q1271=-4 then WORK_HISTORY.HOURSWEEK(NEWYEAR,3)=Q1265; */
/*    else if Q1271^=-4 then WORK_HISTORY.HOURSWEEK(NEWYEAR,3)=Q1271; */
/* end;                          */
WORK_HISTORY.INDUSTRY(NEWYEAR,3)=QES3_57;
WORK_HISTORY.OCCUPATION(NEWYEAR,3)=QES3_56A;
WORK_HISTORY.CLASSWORKER(NEWYEAR,3)=QES3_58A;
if QES3_53D=-4 then WORK_HISTORY.HOURSWEEK(NEWYEAR,3)=QES3_53A;
else if QES3_53D^=-4 then WORK_HISTORY.HOURSWEEK(NEWYEAR,3)=QES3_53D;
/* if QE435=1 then do;                         */
/*    WORK_HISTORY.INDUSTRY(NEWYEAR,4)=Q1245;    */
/*    WORK_HISTORY.OCCUPATION(NEWYEAR,4)=Q1248;  */
/*    WORK_HISTORY.CLASSWORKER(NEWYEAR,4)=Q1259; */
/*    if Q1271=-4 then WORK_HISTORY.HOURSWEEK(NEWYEAR,4)=Q1265; */
/*    else if Q1271^=-4 then WORK_HISTORY.HOURSWEEK(NEWYEAR,4)=Q1271; */
/* end;                          */
WORK_HISTORY.INDUSTRY(NEWYEAR,4)=QES4_57;
WORK_HISTORY.OCCUPATION(NEWYEAR,4)=QES4_56A;
WORK_HISTORY.CLASSWORKER(NEWYEAR,4)=QES4_58A;
if QES4_53D=-4 then WORK_HISTORY.HOURSWEEK(NEWYEAR,4)=QES4_53A;
else if QES4_53D^=-4 then WORK_HISTORY.HOURSWEEK(NEWYEAR,4)=QES4_53D;
 /* if QF435=1 then do;                         */
/*    WORK_HISTORY.INDUSTRY(NEWYEAR,5)=Q1245;    */
/*    WORK_HISTORY.OCCUPATION(NEWYEAR,5)=Q1248;  */
/*    WORK_HISTORY.CLASSWORKER(NEWYEAR,5)=Q1259; */
/*    if Q1271=-4 then WORK_HISTORY.HOURSWEEK(NEWYEAR,5)=Q1265; */
/*    else if Q1271^=-4 then WORK_HISTORY.HOURSWEEK(NEWYEAR,5)=Q1271; */
/* end;                          */
WORK_HISTORY.INDUSTRY(NEWYEAR,5)=QES5_57;
WORK_HISTORY.OCCUPATION(NEWYEAR,5)=QES5_56A;
WORK_HISTORY.CLASSWORKER(NEWYEAR,5)=QES5_58A;
if QES5_53D=-4 then WORK_HISTORY.HOURSWEEK(NEWYEAR,5)=QES5_53A;
else if QES5_53D^=-4 then WORK_HISTORY.HOURSWEEK(NEWYEAR,5)=QES5_53D;
 if QES1_30_1_A>-4 then do;
  WORK_HISTORY.PERIODSTART(NEWYEAR,1,1)=WEEK(QES1_30_1_A,QES1_30_1_B,QES1_30_1_C);
  WORK_HISTORY.PERIODSTOP(NEWYEAR,1,1)=WEEK(QES1_31_1_A,QES1_31_1_B,QES1_31_1_C);
end;
if QES1_30_2_A>-4 then do;
  WORK_HISTORY.PERIODSTART(NEWYEAR,1,2)=WEEK(QES1_30_2_A,QES1_30_2_B,QES1_30_2_C);
  WORK_HISTORY.PERIODSTOP(NEWYEAR,1,2)=WEEK(QES1_31_2_A,QES1_31_2_B,QES1_31_2_C);
end;
if QES1_30_3_A>-4 then do;
  WORK_HISTORY.PERIODSTART(NEWYEAR,1,3)=WEEK(QES1_30_3_A,QES1_30_3_B,QES1_30_3_C);
  WORK_HISTORY.PERIODSTOP(NEWYEAR,1,3)=WEEK(QES1_31_3_A,QES1_31_3_B,QES1_31_3_C);
end;
if QES2_30_1_A>-4 then do;
  WORK_HISTORY.PERIODSTART(NEWYEAR,2,1)=WEEK(QES2_30_1_A,QES2_30_1_B,QES2_30_1_C);
  WORK_HISTORY.PERIODSTOP(NEWYEAR,2,1)=WEEK(QES2_31_1_A ,QES2_31_1_B,QES2_31_1_C);
end;
if QES2_30_2_A>-4 then do;
  WORK_HISTORY.PERIODSTART(NEWYEAR,2,2)=WEEK(QES2_30_2_A,QES2_30_2_B,QES2_30_2_C);
  WORK_HISTORY.PERIODSTOP(NEWYEAR,2,2)=WEEK(QES2_31_2_A,QES2_31_2_B,QES2_31_2_C);
end;
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if QES2_30_3_A>-4 then do;
 WORK_HISTORY.PERIODSTART(NEWYEAR,2,3)=WEEK(QES2_30_3_A,QES2_30_3_B,QES2_30_3_C);
 WORK_HISTORY.PERIODSTOP(NEWYEAR,2,3)=WEEK(QES2_31_3_A,QES2_31_3_B,QES2_31_3_C);
end;
if QES3_30_1_A>-4 then do;
 WORK_HISTORY.PERIODSTART(NEWYEAR,3,1)=WEEK(QES3_30_1_A,QES3_30_1_B,QES3_30_1_C);
 WORK_HISTORY.PERIODSTOP(NEWYEAR,3,1)=WEEK(QES3_31_1_A ,QES3_31_1_B,QES3_31_1_C);
end;
if QES3_30_2_A>-4 then do;
 WORK_HISTORY.PERIODSTART(NEWYEAR,3,2)=WEEK(QES3_30_2_A,QES3_30_2_B,QES3_30_2_C);
 WORK_HISTORY.PERIODSTOP(NEWYEAR,3,2)=WEEK(QES3_31_2_A,QES3_31_2_B,QES3_31_2_C);
end;
if QES3_30_3_A>-4 then do;
 WORK_HISTORY.PERIODSTART(NEWYEAR,3,3)=WEEK(QES3_30_3_A,QES3_30_3_B,QES3_30_3_C);
 WORK_HISTORY.PERIODSTOP(NEWYEAR,3,3)=WEEK(QES3_31_3_A,QES3_31_3_B,QES3_31_3_C);
end;
if QES4_30_1_A>-4 then do;
 WORK_HISTORY.PERIODSTART(NEWYEAR,4,1)=WEEK(QES4_30_1_A,QES4_30_1_B,QES4_30_1_C);
 WORK_HISTORY.PERIODSTOP(NEWYEAR,4,1)=WEEK(QES4_31_1_A ,QES4_31_1_B,QES4_31_1_C);
end;
if QES4_30_2_A>-4 then do;
 WORK_HISTORY.PERIODSTART(NEWYEAR,4,2)=WEEK(QES4_30_2_A,QES4_30_2_B,QES4_30_2_C);
 WORK_HISTORY.PERIODSTOP(NEWYEAR,4,2)=WEEK(QES4_31_2_A,QES4_31_2_B,QES4_31_2_C);
end;
if QES4_30_3_A>-4 then do;
 WORK_HISTORY.PERIODSTART(NEWYEAR,4,3)=WEEK(QES4_30_3_A,QES4_30_3_B,QES4_30_3_C);
 WORK_HISTORY.PERIODSTOP(NEWYEAR,4,3)=WEEK(QES4_31_3_A,QES4_31_3_B,QES4_31_3_C);
end;
if QES5_30_1_A>-4 then do;
 WORK_HISTORY.PERIODSTART(NEWYEAR,5,1)=WEEK(QES5_30_1_A,QES5_30_1_B,QES5_30_1_C);
 WORK_HISTORY.PERIODSTOP(NEWYEAR,5,1)=WEEK(QES5_31_1_A ,QES5_31_1_B,QES5_31_1_C);
end;
if QES5_30_2_A>-4 then do;
 WORK_HISTORY.PERIODSTART(NEWYEAR,5,2)=WEEK(QES5_30_2_A,QES5_30_2_B,QES5_30_2_C);
 WORK_HISTORY.PERIODSTOP(NEWYEAR,5,2)=WEEK(QES5_31_2_A,QES5_31_2_B,QES5_31_2_C);
end;
if QES5_30_3_A>-4 then do;
 WORK_HISTORY.PERIODSTART(NEWYEAR,5,3)=WEEK(QES5_30_3_A,QES5_30_3_B,QES5_30_3_C);
 WORK_HISTORY.PERIODSTOP(NEWYEAR,5,3)=WEEK(QES5_31_3_A,QES5_31_3_B,QES5_31_3_C);
end;
WORK_HISTORY.REASON(NEWYEAR,1,1)=QES1_33_1C;
WORK_HISTORY.REASON(NEWYEAR,1,2)=QES1_33_2C;
WORK_HISTORY.REASON(NEWYEAR,1,3)=QES1_33_3C;
WORK_HISTORY.REASON(NEWYEAR,2,1)=QES2_33_1C;
WORK_HISTORY.REASON(NEWYEAR,2,2)=QES2_33_2C;
WORK_HISTORY.REASON(NEWYEAR,2,3)=QES2_33_3C;
WORK_HISTORY.REASON(NEWYEAR,3,1)=QES3_33_1C;
WORK_HISTORY.REASON(NEWYEAR,3,2)=QES3_33_2C;
WORK_HISTORY.REASON(NEWYEAR,3,3)=QES3_33_3C;
WORK_HISTORY.REASON(NEWYEAR,4,1)=QES4_33_1C;
WORK_HISTORY.REASON(NEWYEAR,4,2)=QES4_33_2C;
WORK_HISTORY.REASON(NEWYEAR,4,3)=QES4_33_3C;
WORK_HISTORY.REASON(NEWYEAR,5,1)=QES5_33_1C;
WORK_HISTORY.REASON(NEWYEAR,5,2)=QES5_33_2C;
WORK_HISTORY.REASON(NEWYEAR,5,3)=QES5_33_3C;
WORK_HISTORY.ALL(NEWYEAR,1,1)=QES1_36_1;
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 WORK_HISTORY.ALL(NEWYEAR,1,2)=QES1_36_2;
 WORK_HISTORY.ALL(NEWYEAR,1,3)=QES1_36_3;
 WORK_HISTORY.ALL(NEWYEAR,2,1)=QES2_36_1;
 WORK_HISTORY.ALL(NEWYEAR,2,2)=QES2_36_2;
 WORK_HISTORY.ALL(NEWYEAR,2,3)=QES2_36_3;
 WORK_HISTORY.ALL(NEWYEAR,3,1)=QES3_36_1;
 WORK_HISTORY.ALL(NEWYEAR,3,2)=QES3_36_2;
 WORK_HISTORY.ALL(NEWYEAR,3,3)=QES3_36_3;
 WORK_HISTORY.ALL(NEWYEAR,4,1)=QES4_36_1;
 WORK_HISTORY.ALL(NEWYEAR,4,2)=QES4_36_2;
 WORK_HISTORY.ALL(NEWYEAR,4,3)=QES4_36_3;
 WORK_HISTORY.ALL(NEWYEAR,5,1)=QES5_36_1;
 WORK_HISTORY.ALL(NEWYEAR,5,2)=QES5_36_2;
 WORK_HISTORY.ALL(NEWYEAR,5,3)=QES5_36_3;
 WORK_HISTORY.LOOK(NEWYEAR,1,1)=QES1_40_1;
 WORK_HISTORY.LOOK(NEWYEAR,1,2)=QES1_40_2;
 WORK_HISTORY.LOOK(NEWYEAR,1,3)=QES1_40_3;
 WORK_HISTORY.LOOK(NEWYEAR,2,1)=QES2_40_1;
 WORK_HISTORY.LOOK(NEWYEAR,2,2)=QES2_40_2;
 WORK_HISTORY.LOOK(NEWYEAR,2,3)=QES2_40_3;
 WORK_HISTORY.LOOK(NEWYEAR,3,1)=QES3_40_1;
 WORK_HISTORY.LOOK(NEWYEAR,3,2)=QES3_40_2;
 WORK_HISTORY.LOOK(NEWYEAR,3,3)=QES3_40_3;
 WORK_HISTORY.LOOK(NEWYEAR,4,1)=QES4_40_1;
 WORK_HISTORY.LOOK(NEWYEAR,4,2)=QES4_40_2;
 WORK_HISTORY.LOOK(NEWYEAR,4,3)=QES4_40_3;
 WORK_HISTORY.LOOK(NEWYEAR,5,1)=QES5_40_1;
 WORK_HISTORY.LOOK(NEWYEAR,5,2)=QES5_40_2;
 WORK_HISTORY.LOOK(NEWYEAR,5,3)=QES5_40_3;

/*      extra within job gaps          */
 if QES1_30_4_A>-4 then do;
   WORK_HISTORY.PERIODSTART(NEWYEAR,1,4)=WEEK(QES1_30_4_A,QES1_30_4_B,QES1_30_4_C);
   WORK_HISTORY.PERIODSTOP(NEWYEAR,1,4)=WEEK(QES1_31_4_A,QES1_31_4_B,QES1_31_4_C);
 end;
 WORK_HISTORY.REASON(NEWYEAR,1,4)=QES1_33_4C;
 WORK_HISTORY.ALL(NEWYEAR,1,4)=QES1_36_4;
 WORK_HISTORY.LOOK(NEWYEAR,1,4)=QES1_40_4;
 if QES2_30_4_A>-4 then do;
   WORK_HISTORY.PERIODSTART(NEWYEAR,1,4)=WEEK(QES2_30_4_A,QES2_30_4_B,QES2_30_4_C);
   WORK_HISTORY.PERIODSTOP(NEWYEAR,1,4)=WEEK(QES2_31_4_A,QES2_31_4_B,QES2_31_4_C);
 end;
 WORK_HISTORY.REASON(NEWYEAR,2,4)=QES2_33_4C;
 WORK_HISTORY.ALL(NEWYEAR,2,4)=QES2_36_4;
 WORK_HISTORY.LOOK(NEWYEAR,2,4)=QES2_40_4;
 if QES3_30_4_A>-4 then do;
   WORK_HISTORY.PERIODSTART(NEWYEAR,1,4)=WEEK(QES3_30_4_A,QES3_30_4_B,QES3_30_4_C);
   WORK_HISTORY.PERIODSTOP(NEWYEAR,1,4)=WEEK(QES3_31_4_A,QES3_31_4_B,QES3_31_4_C);
 end;
 WORK_HISTORY.REASON(NEWYEAR,3,4)=QES3_33_4C;
 WORK_HISTORY.ALL(NEWYEAR,3,4)=QES3_36_4;
 WORK_HISTORY.LOOK(NEWYEAR,3,4)=QES3_40_4;
 if QES4_30_4_A>-4 then do;
   WORK_HISTORY.PERIODSTART(NEWYEAR,1,4)=WEEK(QES4_30_4_A,QES4_30_4_B,QES4_30_4_C);
   WORK_HISTORY.PERIODSTOP(NEWYEAR,1,4)=WEEK(QES4_31_4_A,QES4_31_4_B,QES4_31_4_C);
 end;
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WORK_HISTORY.REASON(NEWYEAR,4,4)=QES4_33_4C;
WORK_HISTORY.ALL(NEWYEAR,4,4)=QES4_36_4;
WORK_HISTORY.LOOK(NEWYEAR,4,4)=QES4_40_4;
if QES5_30_4_A>-4 then do;
  WORK_HISTORY.PERIODSTART(NEWYEAR,1,4)=WEEK(QES5_30_4_A,QES5_30_4_B,QES5_30_4_C);
  WORK_HISTORY.PERIODSTOP(NEWYEAR,1,4)=WEEK(QES5_31_4_A,QES5_31_4_B,QES5_31_4_C);
end;
WORK_HISTORY.REASON(NEWYEAR,5,4)=QES5_33_4C;
WORK_HISTORY.ALL(NEWYEAR,5,4)=QES5_36_4;
WORK_HISTORY.LOOK(NEWYEAR,5,4)=QES5_40_4;
/*  end extra within job gaps        */

if Q7_10_1_A>-4 then do;
  WORK_HISTORY.BSTART(NEWYEAR,1)=WEEK(Q7_10_1_A,Q7_10_1_B,Q7_10_1_C);
  WORK_HISTORY.BSTOP(NEWYEAR,1)=WEEK(Q7_11_1_A,Q7_11_1_B,Q7_11_1_C);
end;
if Q7_10_2_A>-4 then do;
  WORK_HISTORY.BSTART(NEWYEAR,2)=WEEK(Q7_10_2_A,Q7_10_2_B,Q7_10_2_C);
  WORK_HISTORY.BSTOP(NEWYEAR,2)=WEEK(Q7_11_2_A,Q7_11_2_B,Q7_11_2_C);
end;
if Q7_10_3_A>-4 then do;
  WORK_HISTORY.BSTART(NEWYEAR,3)=WEEK(Q7_10_3_A,Q7_10_3_B,Q7_10_3_C);
  WORK_HISTORY.BSTOP(NEWYEAR,3)=WEEK(Q7_11_3_A,Q7_11_3_B,Q7_11_3_C);
end;
if Q7_10_4_A>-4 then do;
  WORK_HISTORY.BSTART(NEWYEAR,4)=WEEK(Q7_10_4_A,Q7_10_4_B,Q7_10_4_C);
  WORK_HISTORY.BSTOP(NEWYEAR,4)=WEEK(Q7_11_4_A,Q7_11_4_B,Q7_11_4_C);
end;
WORK_HISTORY.BALL(NEWYEAR,1)=Q7_12_1;
WORK_HISTORY.BALL(NEWYEAR,2)=Q7_12_2;
WORK_HISTORY.BALL(NEWYEAR,3)=Q7_12_3;
WORK_HISTORY.BALL(NEWYEAR,4)=Q7_12_4;
WORK_HISTORY.BLOOK(NEWYEAR,1)=Q7_16_1;
WORK_HISTORY.BLOOK(NEWYEAR,2)=Q7_16_2;
WORK_HISTORY.BLOOK(NEWYEAR,3)=Q7_16_3;
WORK_HISTORY.BLOOK(NEWYEAR,4)=Q7_16_4;
WORK_HISTORY.BREASON(NEWYEAR,1)=Q7_19_1;
WORK_HISTORY.BREASON(NEWYEAR,2)=Q7_19_2;
WORK_HISTORY.BREASON(NEWYEAR,3)=Q7_19_3;
WORK_HISTORY.BREASON(NEWYEAR,4)=Q7_19_4;

/*    extra between job gaps       */
if Q7_10_5_A>-4 then do;
  WORK_HISTORY.BSTART(NEWYEAR,5)=WEEK(Q7_10_5_A,Q7_10_5_B,Q7_10_5_C);
  WORK_HISTORY.BSTOP(NEWYEAR,5)=WEEK(Q7_11_5_A,Q7_11_5_B,Q7_11_5_C);
end;
WORK_HISTORY.BALL(NEWYEAR,5)=Q7_12_5;
WORK_HISTORY.BLOOK(NEWYEAR,5)=Q7_16_5;
WORK_HISTORY.BREASON(NEWYEAR,5)=Q7_19_5;

if Q7_10_6_A>-4 then do;
  WORK_HISTORY.BSTART(NEWYEAR,6)=WEEK(Q7_10_6_A,Q7_10_6_B,Q7_10_6_C);
  WORK_HISTORY.BSTOP(NEWYEAR,6)=WEEK(Q7_11_6_A,Q7_11_6_B,Q7_11_6_C);
end;
WORK_HISTORY.BALL(NEWYEAR,6)=Q7_12_6;
WORK_HISTORY.BLOOK(NEWYEAR,6)=Q7_16_6;
```

```
 WORK_HISTORY.BREASON(NEWYEAR,6)=Q7_19_6;
/*    end extra between job gaps        */

 CURAMIL = 0;
 if (Q4_5A = 1) | (Q4_11 = 1) then CURAMIL = 1;
 if (Q4_1A = 0) | (Q4_1B=1 & FIXANS_474>=1 & FIXANS_474<=4) then do;
   if CURAMIL=1 then WORK_HISTORY.MSTOP1(NEWYEAR)=WORK_HISTORY.INT(NEWYEAR);
   else WORK_HISTORY.MSTOP1(NEWYEAR)=WEEK(Q4_6A_A,Q4_6A_B,Q4_6A_C);
   WORK_HISTORY.MSTART1(NEWYEAR)=WORK_HISTORY.LASTINT(NEWYEAR);
   if WORK_HISTORY.MSTART1(NEWYEAR)>=0 & WORK_HISTORY.MSTOP1(NEWYEAR)>=
     WORK_HISTORY.MSTART1(NEWYEAR) then
     call FILL(WORK_HISTORY.MSTART1(NEWYEAR),WORK_HISTORY.MSTOP1(NEWYEAR),7,0);
 end;
 if (((Q4_9=1 | Q4_9=3) & (Q4_9A=1 | (Q4_9A=4 & (Q4_9A1=1 | Q4_9A1=4)))) |
   ((Q4_9=2 | Q4_9=4) & (Q4_9B=1 | (Q4_9B=4 & (Q4_9B1=1 | Q4_9B1=4)))))
   then do;
   if Q4_10=1 then do;
     WORK_HISTORY.MSTART2(NEWYEAR)=WEEK(Q4_11B_A,Q4_11B_B,Q4_11B_C);
     WORK_HISTORY.MSTOP2(NEWYEAR)=WORK_HISTORY.INT(NEWYEAR);
   end;
   else if Q4_12=1 then do;
     WORK_HISTORY.MSTART2(NEWYEAR)=WEEK(Q4_12MC,Q4_12DC,Q4_12YC);
     WORK_HISTORY.MSTOP2(NEWYEAR)=WEEK(Q4_13_AC,Q4_13_BC,Q4_13_CC);
   end;
   if WORK_HISTORY.MSTART2(NEWYEAR)>=0 & WORK_HISTORY.MSTOP2(NEWYEAR)>=
     WORK_HISTORY.MSTART2(NEWYEAR) then
     call FILL(WORK_HISTORY.MSTART2(NEWYEAR),WORK_HISTORY.MSTOP2(NEWYEAR),7,0);
 end;
 if WORK_HISTORY.MSTART1(NEWYEAR)>-4 | WORK_HISTORY.MSTART2(NEWYEAR)>-4 |
 WORK_HISTORY.MSTOP1(NEWYEAR)>-4 | WORK_HISTORY.MSTOP2(NEWYEAR)>-4 then do;
   if WORK_HISTORY.MSTART1(NEWYEAR)=-3 | WORK_HISTORY.MSTART2(NEWYEAR)=-3 |
         WORK_HISTORY.MSTOP1(NEWYEAR)=-3 | WORK_HISTORY.MSTOP2(NEWYEAR)=-3 then
         do;
     WORK_HISTORY.MILWKSL(NEWYEAR)=-3;
     WORK_HISTORY.MILWKSC(NEWYEAR)=-3;
   end;
 /* else if WORK_HISTORY.MSTART1(NEWYEAR) > WORK_HISTORY.MSTOP1(NEWYEAR) |
    WORK_HISTORY.MSTART2(NEWYEAR) > WORK_HISTORY.MSTOP2(NEWYEAR) then do;
     WORK_HISTORY.MILWKSL(NEWYEAR)=-3;
     WORK_HISTORY.MILWKSC(NEWYEAR)=-3;
   end; */
   else do;
     WORK_HISTORY.MILWKSL(NEWYEAR)=0;
     WORK_HISTORY.MILWKSC(NEWYEAR)=0;
     if WORK_HISTORY.MSTART1(NEWYEAR)>=0 then WORK_HISTORY.MILWKSL(NEWYEAR)=
       WORK_HISTORY.MSTOP1(NEWYEAR) - WORK_HISTORY.MSTART1(NEWYEAR) + 1;
     if WORK_HISTORY.MSTART2(NEWYEAR)>=0 then WORK_HISTORY.MILWKSL(NEWYEAR)=
       WORK_HISTORY.MILWKSL(NEWYEAR) + WORK_HISTORY.MSTOP2(NEWYEAR) -
       WORK_HISTORY.MSTART2(NEWYEAR) + 1;
     WORK_HISTORY.MILWKSL(NEWYEAR)= FLOOR(WORK_HISTORY.MILWKSL(NEWYEAR)+.5);
   end;
 end;

 /*    additional jobs / employment supplement           */
/*  numvar=117;  / number of variables in the supplement */
```

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/* if ID=2279  | ID=2423  | ID=5459  | ID=5681    | ID=8020 then do;                          */
/*    read file(addjobs) into (addjvbls); */
/*    kountadd=kountadd+1; */
  WORK_HISTORY.STARTM(NEWYEAR,6)=QES6_8MC;
  WORK_HISTORY.STARTD(NEWYEAR,6)=QES6_8DC;
  WORK_HISTORY.STARTY(NEWYEAR,6)=QES6_8YC;
  WORK_HISTORY.STARTM(NEWYEAR,7)=QES7_8MC;
  WORK_HISTORY.STARTD(NEWYEAR,7)=QES7_8DC;
  WORK_HISTORY.STARTY(NEWYEAR,7)=QES7_8YC;
  WORK_HISTORY.STARTM(NEWYEAR,8)=QES8_8MC;
  WORK_HISTORY.STARTD(NEWYEAR,8)=QES8_8DC;
  WORK_HISTORY.STARTY(NEWYEAR,8)=QES8_8YC;
  WORK_HISTORY.STARTM(NEWYEAR,9)=QES9_8MC;
  WORK_HISTORY.STARTD(NEWYEAR,9)=QES9_8DC;
  WORK_HISTORY.STARTY(NEWYEAR,9)=QES9_8YC;
  WORK_HISTORY.STARTM(NEWYEAR,10)=QES10_8MC;
  WORK_HISTORY.STARTD(NEWYEAR,10)=QES10_8DC;
  WORK_HISTORY.STARTY(NEWYEAR,10)=QES10_8YC;
  WORK_HISTORY.STOPM(NEWYEAR,6)=QES6_26_A;
  WORK_HISTORY.STOPD(NEWYEAR,6)=QES6_26_B;
  WORK_HISTORY.STOPY(NEWYEAR,6)=QES6_26_C;
  WORK_HISTORY.STOPM(NEWYEAR,7)=QES7_26_A;
  WORK_HISTORY.STOPD(NEWYEAR,7)=QES7_26_B;
  WORK_HISTORY.STOPY(NEWYEAR,7)=QES7_26_C;
  WORK_HISTORY.STOPM(NEWYEAR,8)=QES8_26_A;
  WORK_HISTORY.STOPD(NEWYEAR,8)=QES8_26_B;
  WORK_HISTORY.STOPY(NEWYEAR,8)=QES8_26_C;
  WORK_HISTORY.STOPM(NEWYEAR,9)=QES9_26_A;
  WORK_HISTORY.STOPD(NEWYEAR,9)=QES9_26_B;
  WORK_HISTORY.STOPY(NEWYEAR,9)=QES9_26_C;
  WORK_HISTORY.STOPM(NEWYEAR,10)=QES10_26_A;
  WORK_HISTORY.STOPD(NEWYEAR,10)=QES10_26_B;
  WORK_HISTORY.STOPY(NEWYEAR,10)=QES10_26_C;
  WORK_HISTORY.PREVIOUSEMP#(NEWYEAR,6)=FIXANS_416;
  WORK_HISTORY.PREVIOUSEMP#(NEWYEAR,7)=FIXANS_424;
  WORK_HISTORY.PREVIOUSEMP#(NEWYEAR,8)=FIXANS_432;
  WORK_HISTORY.PREVIOUSEMP#(NEWYEAR,9)=FIXANS_439;
  WORK_HISTORY.PREVIOUSEMP#(NEWYEAR,10)=FIXANS_447;
  WORK_HISTORY.PRETEN(NEWYEAR,6)=QES6_6;
  WORK_HISTORY.PRETEN(NEWYEAR,7)=QES7_6;
  WORK_HISTORY.PRETEN(NEWYEAR,8)=QES8_6;
  WORK_HISTORY.PRETEN(NEWYEAR,9)=QES9_6;
  WORK_HISTORY.PRETEN(NEWYEAR,10)=QES10_6;
  WORK_HISTORY.OCCUPATION(NEWYEAR,6)=QES6_56A;
  WORK_HISTORY.OCCUPATION(NEWYEAR,7)=QES7_56A;
  WORK_HISTORY.OCCUPATION(NEWYEAR,8)=QES8_56A;
  WORK_HISTORY.OCCUPATION(NEWYEAR,9)=QES9_56A;
  WORK_HISTORY.OCCUPATION(NEWYEAR,10)=QES10_56A;
  WORK_HISTORY.INDUSTRY(NEWYEAR,6)=QES6_57;
  WORK_HISTORY.INDUSTRY(NEWYEAR,7)=QES7_57;
  WORK_HISTORY.INDUSTRY(NEWYEAR,8)=QES8_57;
  WORK_HISTORY.INDUSTRY(NEWYEAR,9)=QES9_57;
  WORK_HISTORY.INDUSTRY(NEWYEAR,10)=QES10_57;
  WORK_HISTORY.CLASSWORKER(NEWYEAR,6)=QES6_58A;
  WORK_HISTORY.CLASSWORKER(NEWYEAR,7)=QES7_58A;
  WORK_HISTORY.CLASSWORKER(NEWYEAR,8)=QES8_58A;
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   WORK_HISTORY.CLASSWORKER(NEWYEAR,9)=QES9_58A;
   WORK_HISTORY.CLASSWORKER(NEWYEAR,10)=QES10_58A;
   WORK_HISTORY.HOURDAY(NEWYEAR,6)=QES6_51;
   WORK_HISTORY.HOURDAY(NEWYEAR,7)=QES7_51;
   WORK_HISTORY.HOURDAY(NEWYEAR,8)=QES8_51;
   WORK_HISTORY.HOURDAY(NEWYEAR,9)=QES9_51;
   WORK_HISTORY.HOURDAY(NEWYEAR,10)=QES10_51;
   WORK_HISTORY.PAYRATE(NEWYEAR,6)=QES6_76;
   WORK_HISTORY.PAYRATE(NEWYEAR,7)=QES7_76;
   WORK_HISTORY.PAYRATE(NEWYEAR,8)=QES8_76;
   WORK_HISTORY.PAYRATE(NEWYEAR,9)=QES9_76;
   WORK_HISTORY.PAYRATE(NEWYEAR,10)=QES10_76;
   WORK_HISTORY.TIMERATE(NEWYEAR,6)=QES6_77;
   WORK_HISTORY.TIMERATE(NEWYEAR,7)=QES7_77;
   WORK_HISTORY.TIMERATE(NEWYEAR,8)=QES8_77;
   WORK_HISTORY.TIMERATE(NEWYEAR,9)=QES9_77;
   WORK_HISTORY.TIMERATE(NEWYEAR,10)=QES10_77;
   WORK_HISTORY.UNION(NEWYEAR,6)=QES6_87;
   WORK_HISTORY.UNION(NEWYEAR,7)=QES7_87;
   WORK_HISTORY.UNION(NEWYEAR,8)=QES8_87;
   WORK_HISTORY.UNION(NEWYEAR,9)=QES9_87;
   WORK_HISTORY.UNION(NEWYEAR,10)=QES10_87;
   WORK_HISTORY.GOVTJOB(NEWYEAR,6)=-4;
   WORK_HISTORY.GOVTJOB(NEWYEAR,7)=-4;
   WORK_HISTORY.GOVTJOB(NEWYEAR,8)=-4;
   WORK_HISTORY.GOVTJOB(NEWYEAR,9)=-4;
   WORK_HISTORY.GOVTJOB(NEWYEAR,10)=-4;
   if QES6_8MC>-4 then do;
     WORK_HISTORY.START(NEWYEAR,6)=WEEK(QES6_8MC,QES6_8DC,QES6_8YC);
     WORK_HISTORY.STOP(NEWYEAR,6)=WEEK(QES6_26_A,QES6_26_B,QES6_26_C);
            end;
   if QES7_8MC>-4 then do;
     WORK_HISTORY.START(NEWYEAR,7)=WEEK(QES7_8MC,QES7_8DC,QES7_8YC);
     WORK_HISTORY.STOP(NEWYEAR,7)=WEEK(QES7_26_A,QES7_26_B,QES7_26_C);
            end;
   if QES8_8MC>-4 then do;
     WORK_HISTORY.START(NEWYEAR,8)=WEEK(QES8_8MC,QES8_8DC,QES8_8YC);
     WORK_HISTORY.STOP(NEWYEAR,8)=WEEK(QES8_26_A,QES8_26_B,QES8_26_C);
            end;
   if QES9_8MC>-4 then do;
     WORK_HISTORY.START(NEWYEAR,9)=WEEK(QES9_8MC,QES9_8DC,QES9_8YC);
     WORK_HISTORY.STOP(NEWYEAR,9)=WEEK(QES9_26_A,QES9_26_B,QES9_26_C);
            end;
   if QES10_8MC>-4 then do;
     WORK_HISTORY.START(NEWYEAR,10)=WEEK(QES10_8MC,QES10_8DC,QES10_8YC);
     WORK_HISTORY.STOP(NEWYEAR,10)=WEEK(QES10_26_A,QES10_26_B,QES10_26_C);
            end;

/* n=20;                                      */
/* do j=6 to 10;                              */
/*   if ADDJVBLS(N)>-4 then do;                       */
/*     START(NEWYEAR,J)=WEEK(ADDJVBLS(N),ADDJVBLS(N+1),ADDJVBLS(N+2));  */
/*     STOP(NEWYEAR,J)=WEEK(ADDJVBLS(N+4),ADDJVBLS(N+5),ADDJVBLS(N+6)); */
/*   end;                                     */
/*   n=n+117;                                 */
/* end;                                       */
```

```
WORK_HISTORY.PAST(NEWYEAR,6)=QES6_4B;
WORK_HISTORY.PAST(NEWYEAR,7)=QES7_4B;
WORK_HISTORY.PAST(NEWYEAR,8)=QES8_4B;
WORK_HISTORY.PAST(NEWYEAR,9)=QES9_4B;
WORK_HISTORY.PAST(NEWYEAR,10)=QES10_4B;
WORK_HISTORY.CURRENT(NEWYEAR,6)=QES6_23;
WORK_HISTORY.CURRENT(NEWYEAR,7)=QES7_23;
WORK_HISTORY.CURRENT(NEWYEAR,8)=QES8_23;
WORK_HISTORY.CURRENT(NEWYEAR,9)=QES9_23;
WORK_HISTORY.CURRENT(NEWYEAR,10)=QES10_23;
WORK_HISTORY.WHYLEFT(NEWYEAR,6)=QES6_23A;
WORK_HISTORY.WHYLEFT(NEWYEAR,7)=QES7_23A;
WORK_HISTORY.WHYLEFT(NEWYEAR,8)=QES8_23A;
WORK_HISTORY.WHYLEFT(NEWYEAR,9)=QES9_23A;
WORK_HISTORY.WHYLEFT(NEWYEAR,10)=QES10_23A;
WORK_HISTORY.WEEKSNOTWORKED(NEWYEAR,6)=QES6_28;
WORK_HISTORY.WEEKSNOTWORKED(NEWYEAR,7)=QES7_28;
WORK_HISTORY.WEEKSNOTWORKED(NEWYEAR,8)=QES8_28;
WORK_HISTORY.WEEKSNOTWORKED(NEWYEAR,9)=QES9_28;
WORK_HISTORY.WEEKSNOTWORKED(NEWYEAR,10)=QES10_28;
WORK_HISTORY.CPSJOB(NEWYEAR,6)=0;
WORK_HISTORY.CPSJOB(NEWYEAR,7)=0;
WORK_HISTORY.CPSJOB(NEWYEAR,8)=0;
WORK_HISTORY.CPSJOB(NEWYEAR,9)=0;
WORK_HISTORY.CPSJOB(NEWYEAR,10)=0;
if QES6_53D=-4 then WORK_HISTORY.HOURSWEEK(NEWYEAR,6)=QES6_53A;
else if QES6_53D^=-4 then WORK_HISTORY.HOURSWEEK(NEWYEAR,6)=QES6_53D;
if QES7_53D=-4 then WORK_HISTORY.HOURSWEEK(NEWYEAR,7)=QES7_53A;
else if QES7_53D^=-4 then WORK_HISTORY.HOURSWEEK(NEWYEAR,7)=QES7_53D;
if QES8_53D=-4 then WORK_HISTORY.HOURSWEEK(NEWYEAR,8)=QES8_53A;
else if QES8_53D^=-4 then WORK_HISTORY.HOURSWEEK(NEWYEAR,8)=QES8_53D;
if QES9_53D=-4 then WORK_HISTORY.HOURSWEEK(NEWYEAR,9)=QES9_53A;
else if QES9_53D^=-4 then WORK_HISTORY.HOURSWEEK(NEWYEAR,9)=QES9_53D;
if QES10_53D=-4 then WORK_HISTORY.HOURSWEEK(NEWYEAR,10)=QES10_53A;
else if QES10_53D^=-4 then WORK_HISTORY.HOURSWEEK(NEWYEAR,10)=QES10_53D;

/* n=23;                                          */
/* do j=6 to 10;                                  */
/*   CURRENT(NEWYEAR,J)=ADDJVBLS(N);                          */
/*   WHYLEFT(NEWYEAR,J)=ADDJVBLS(N+4);                         */
/*   if ADDJVBLS(N+74)=-4 then                     */
/*     HOURSWEEK(NEWYEAR,J)=ADDJVBLS(N+71);                  */
/*   else if ADDJVBLS(N+71)>-4 then HOURSWEEK(NEWYEAR,J)=ADDJVBLS(N+71); */
/*   WEEKSNOTWORKED(NEWYEAR,J)=ADDJVBLS(N+7);                 */
/*   PAST(NEWYEAR,J)=ADDJVBLS(N-6);                    */
/*   p=n;                                       */

if QES6_30_1_A>-4 then do;
  WORK_HISTORY.PERIODSTART(NEWYEAR,6,1)=
  WEEK(QES6_30_1_A,QES6_30_1_B,QES6_30_1_C);
  WORK_HISTORY.PERIODSTOP(NEWYEAR,6,1)=
  WEEK(QES6_31_1_A ,QES6_31_1_B,QES6_31_1_C);
end;
WORK_HISTORY.REASON(NEWYEAR,6,1)=QES6_33_1C;
WORK_HISTORY.ALL(NEWYEAR,6,1)=QES6_36_1;
```

```
WORK_HISTORY.LOOK(NEWYEAR,6,1)=QES6_40_1;
if QES6_30_2_A>-4 then do;
  WORK_HISTORY.PERIODSTART(NEWYEAR,6,2)=
  WEEK(QES6_30_2_A,QES6_30_2_B,QES6_30_2_C);
  WORK_HISTORY.PERIODSTOP(NEWYEAR,6,2)=
  WEEK(QES6_31_2_A,QES6_31_2_B,QES6_31_2_C);
end;
WORK_HISTORY.REASON(NEWYEAR,6,2)=QES6_33_2C;
WORK_HISTORY.ALL(NEWYEAR,6,2)=QES6_36_2;
WORK_HISTORY.LOOK(NEWYEAR,6,2)=QES6_40_2;
if QES6_30_3_A>-4 then do;
  WORK_HISTORY.PERIODSTART(NEWYEAR,6,3)=
  WEEK(QES6_30_3_A,QES6_30_3_B,QES6_30_3_C);
  WORK_HISTORY.PERIODSTOP(NEWYEAR,6,3)=
  WEEK(QES6_31_3_A,QES6_31_3_B,QES6_31_3_C);
end;
WORK_HISTORY.REASON(NEWYEAR,6,3)=QES6_33_3C;
WORK_HISTORY.ALL(NEWYEAR,6,3)=QES6_36_3;
WORK_HISTORY.LOOK(NEWYEAR,6,3)=QES6_40_3;
if QES6_30_4_A>-4 then do;
  WORK_HISTORY.PERIODSTART(NEWYEAR,6,4)=
  WEEK(QES6_30_4_A,QES6_30_4_B,QES6_30_4_C);
  WORK_HISTORY.PERIODSTOP(NEWYEAR,6,4)=
  WEEK(QES6_31_4_A,QES6_31_4_B,QES6_31_4_C);
end;
WORK_HISTORY.REASON(NEWYEAR,6,4)=QES6_33_4C;
WORK_HISTORY.ALL(NEWYEAR,6,4)=QES6_36_4;
WORK_HISTORY.LOOK(NEWYEAR,6,4)=QES6_40_4;

if QES7_30_1_A>-4 then do;
  WORK_HISTORY.PERIODSTART(NEWYEAR,7,1)=
  WEEK(QES7_30_1_A,QES7_30_1_B,QES7_30_1_C);
  WORK_HISTORY.PERIODSTOP(NEWYEAR,7,1)=
  WEEK(QES7_31_1_A ,QES7_31_1_B,QES7_31_1_C);
end;
WORK_HISTORY.REASON(NEWYEAR,7,1)=QES7_33_1C;
WORK_HISTORY.ALL(NEWYEAR,7,1)=QES7_36_1;
WORK_HISTORY.LOOK(NEWYEAR,7,1)=QES7_40_1;
if QES7_30_2_A>-4 then do;
  WORK_HISTORY.PERIODSTART(NEWYEAR,7,2)=
  WEEK(QES7_30_2_A,QES7_30_2_B,QES7_30_2_C);
  WORK_HISTORY.PERIODSTOP(NEWYEAR,7,2)=
  WEEK(QES7_31_2_A,QES7_31_2_B,QES7_31_2_C);
end;
WORK_HISTORY.REASON(NEWYEAR,7,2)=QES7_33_2C;
WORK_HISTORY.ALL(NEWYEAR,7,2)=QES7_36_2;
WORK_HISTORY.LOOK(NEWYEAR,7,2)=QES7_40_2;
if QES7_30_3_A>-4 then do;
  WORK_HISTORY.PERIODSTART(NEWYEAR,7,3)=
  WEEK(QES7_30_3_A,QES7_30_3_B,QES7_30_3_C);
  WORK_HISTORY.PERIODSTOP(NEWYEAR,7,3)=
  WEEK(QES7_31_3_A,QES7_31_3_B,QES7_31_3_C);
end;
WORK_HISTORY.REASON(NEWYEAR,7,3)=QES7_33_3C;
WORK_HISTORY.ALL(NEWYEAR,7,3)=QES7_36_3;
WORK_HISTORY.LOOK(NEWYEAR,7,3)=QES7_40_3;
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if QES7_30_4_A>-4 then do;
   WORK_HISTORY.PERIODSTART(NEWYEAR,7,4)=
   WEEK(QES7_30_4_A,QES7_30_4_B,QES7_30_4_C);
   WORK_HISTORY.PERIODSTOP(NEWYEAR,7,4)=
   WEEK(QES7_31_4_A,QES7_31_4_B,QES7_31_4_C);
end;
WORK_HISTORY.REASON(NEWYEAR,7,4)=QES7_33_4C;
WORK_HISTORY.ALL(NEWYEAR,7,4)=QES7_36_4;
WORK_HISTORY.LOOK(NEWYEAR,7,4)=QES7_40_4;

if QES8_30_1_A>-4 then do;
   WORK_HISTORY.PERIODSTART(NEWYEAR,8,1)=
   WEEK(QES8_30_1_A,QES8_30_1_B,QES8_30_1_C);
   WORK_HISTORY.PERIODSTOP(NEWYEAR,8,1)=
   WEEK(QES8_31_1_A ,QES8_31_1_B,QES8_31_1_C);
end;
WORK_HISTORY.REASON(NEWYEAR,8,1)=QES8_33_1C;
WORK_HISTORY.ALL(NEWYEAR,8,1)=QES8_36_1;
WORK_HISTORY.LOOK(NEWYEAR,8,1)=QES8_40_1;
if QES8_30_2_A>-4 then do;
   WORK_HISTORY.PERIODSTART(NEWYEAR,8,2)=
   WEEK(QES8_30_2_A,QES8_30_2_B,QES8_30_2_C);
   WORK_HISTORY.PERIODSTOP(NEWYEAR,8,2)=
   WEEK(QES8_31_2_A,QES8_31_2_B,QES8_31_2_C);
end;
WORK_HISTORY.REASON(NEWYEAR,8,2)=QES8_33_2C;
WORK_HISTORY.ALL(NEWYEAR,8,2)=QES8_36_2;
WORK_HISTORY.LOOK(NEWYEAR,8,2)=QES8_40_2;
if QES8_30_3_A>-4 then do;
   WORK_HISTORY.PERIODSTART(NEWYEAR,8,3)=
   WEEK(QES8_30_3_A,QES8_30_3_B,QES8_30_3_C);
   WORK_HISTORY.PERIODSTOP(NEWYEAR,8,3)=
   WEEK(QES8_31_3_A,QES8_31_3_B,QES8_31_3_C);
end;
WORK_HISTORY.REASON(NEWYEAR,8,3)=QES8_33_3C;
WORK_HISTORY.ALL(NEWYEAR,8,3)=QES8_36_3;
WORK_HISTORY.LOOK(NEWYEAR,8,3)=QES8_40_3;
if QES8_30_4_A>-4 then do;
   WORK_HISTORY.PERIODSTART(NEWYEAR,8,4)=
   WEEK(QES8_30_4_A,QES8_30_4_B,QES8_30_4_C);
   WORK_HISTORY.PERIODSTOP(NEWYEAR,8,4)=
   WEEK(QES8_31_4_A,QES8_31_4_B,QES8_31_4_C);
end;
WORK_HISTORY.REASON(NEWYEAR,8,4)=QES8_33_4C;
WORK_HISTORY.ALL(NEWYEAR,8,4)=QES8_36_4;
WORK_HISTORY.LOOK(NEWYEAR,8,4)=QES8_40_4;

if QES9_30_1_A>-4 then do;
   WORK_HISTORY.PERIODSTART(NEWYEAR,9,1)=
   WEEK(QES9_30_1_A,QES9_30_1_B,QES9_30_1_C);
   WORK_HISTORY.PERIODSTOP(NEWYEAR,9,1)=
   WEEK(QES9_31_1_A ,QES9_31_1_B,QES9_31_1_C);
end;
WORK_HISTORY.REASON(NEWYEAR,9,1)=QES9_33_1C;
WORK_HISTORY.ALL(NEWYEAR,9,1)=QES9_36_1;
WORK_HISTORY.LOOK(NEWYEAR,9,1)=QES9_40_1;
```

```
if QES9_30_2_A>-4 then do;
   WORK_HISTORY.PERIODSTART(NEWYEAR,9,2)=
   WEEK(QES9_30_2_A,QES9_30_2_B,QES9_30_2_C);
   WORK_HISTORY.PERIODSTOP(NEWYEAR,9,2)=
   WEEK(QES9_31_2_A,QES9_31_2_B,QES9_31_2_C);
end;
WORK_HISTORY.REASON(NEWYEAR,9,2)=QES9_33_2C;
WORK_HISTORY.ALL(NEWYEAR,9,2)=QES9_36_2;
WORK_HISTORY.LOOK(NEWYEAR,9,2)=QES9_40_2;
if QES9_30_3_A>-4 then do;
   WORK_HISTORY.PERIODSTART(NEWYEAR,9,3)=
   WEEK(QES9_30_3_A,QES9_30_3_B,QES9_30_3_C);
   WORK_HISTORY.PERIODSTOP(NEWYEAR,9,3)=
   WEEK(QES9_31_3_A,QES9_31_3_B,QES9_31_3_C);
end;
WORK_HISTORY.REASON(NEWYEAR,9,3)=QES9_33_3C;
WORK_HISTORY.ALL(NEWYEAR,9,3)=QES9_36_3;
WORK_HISTORY.LOOK(NEWYEAR,9,3)=QES9_40_3;
if QES9_30_4_A>-4 then do;
   WORK_HISTORY.PERIODSTART(NEWYEAR,9,4)=
   WEEK(QES9_30_4_A,QES9_30_4_B,QES9_30_4_C);
   WORK_HISTORY.PERIODSTOP(NEWYEAR,9,4)=
   WEEK(QES9_31_4_A,QES9_31_4_B,QES9_31_4_C);
end;
WORK_HISTORY.REASON(NEWYEAR,9,4)=QES9_33_4C;
WORK_HISTORY.ALL(NEWYEAR,9,4)=QES9_36_4;
WORK_HISTORY.LOOK(NEWYEAR,9,4)=QES9_40_4;

if QES10_30_1_A>-4 then do;
   WORK_HISTORY.PERIODSTART(NEWYEAR,10,1)=
   WEEK(QES10_30_1_A,QES10_30_1_B,QES10_30_1_C);
   WORK_HISTORY.PERIODSTOP(NEWYEAR,10,1)=
   WEEK(QES10_31_1_A ,QES10_31_1_B,QES10_31_1_C);
end;
WORK_HISTORY.REASON(NEWYEAR,10,1)=QES10_33_1C;
WORK_HISTORY.ALL(NEWYEAR,10,1)=QES10_36_1;
WORK_HISTORY.LOOK(NEWYEAR,10,1)=QES10_40_1;
if QES10_30_2_A>-4 then do;
   WORK_HISTORY.PERIODSTART(NEWYEAR,10,2)=
   WEEK(QES10_30_2_A,QES10_30_2_B,QES10_30_2_C);
   WORK_HISTORY.PERIODSTOP(NEWYEAR,10,2)=
   WEEK(QES10_31_2_A,QES10_31_2_B,QES10_31_2_C);
end;
WORK_HISTORY.REASON(NEWYEAR,10,2)=QES10_33_2C;
WORK_HISTORY.ALL(NEWYEAR,10,2)=QES10_36_2;
WORK_HISTORY.LOOK(NEWYEAR,10,2)=QES10_40_2;
if QES10_30_3_A>-4 then do;
   WORK_HISTORY.PERIODSTART(NEWYEAR,10,3)=
   WEEK(QES10_30_3_A,QES10_30_3_B,QES10_30_3_C);
   WORK_HISTORY.PERIODSTOP(NEWYEAR,10,3)=
   WEEK(QES10_31_3_A,QES10_31_3_B,QES10_31_3_C);
end;
WORK_HISTORY.REASON(NEWYEAR,10,3)=QES10_33_3C;
WORK_HISTORY.ALL(NEWYEAR,10,3)=QES10_36_3;
WORK_HISTORY.LOOK(NEWYEAR,10,3)=QES10_40_3;
if QES10_30_4_A>-4 then do;
```

```
    WORK_HISTORY.PERIODSTART(NEWYEAR,10,4)=
     WEEK(QES10_30_4_A,QES10_30_4_B,QES10_30_4_C);
     WORK_HISTORY.PERIODSTOP(NEWYEAR,10,4)=
     WEEK(QES10_31_4_A,QES10_31_4_B,QES10_31_4_C);
   end;
   WORK_HISTORY.REASON(NEWYEAR,10,4)=QES10_33_4C;
   WORK_HISTORY.ALL(NEWYEAR,10,4)=QES10_36_4;
   WORK_HISTORY.LOOK(NEWYEAR,10,4)=QES10_40_4;

/*   do k=1 to 2;                                 */
/*     if ADDJVBLS(P+8)>-4 then do;                    */
/*       PERIODSTART(NEWYEAR,J,K)=                      */
/*         WEEK(ADDJVBLS(P+9),ADDJVBLS(P+10),ADDJVBLS(P+11));      */
/*       PERIODSTOP(NEWYEAR,J,K)=                       */
/*         WEEK(ADDJVBLS(P+12),ADDJVBLS(P+13),ADDJVBLS(P+14));     */
/*     end;                                      */
/*     REASON(NEWYEAR,J,K)=ADDJVBLS(P+15);              */
/*     ALL(NEWYEAR,J,K)=ADDJVBLS(P+16);                */
/*     LOOK(NEWYEAR,J,K)=ADDJVBLS(P+20);                */
/*     P=P+15;                                   */
/*   end;                                        */
/*   N=N+117;                                     */
/* end;                                          */

   end NEWVARIABLES;

1WEEK:PROC(MONTH,DAY,YEAR) RETURNS(float dec);
/******* The purpose of the week function is to take a date passed to it and to convert that date into a week
          number relative to 1-1-78.  Note that dates prior to 1-1-78 are assigned to week 0, missing days are
          assigned to day 15 of the month and a '-3' is returned if the date is not valid. ********/
dcl (MONTH,DAY,YEAR) float dec(6);
dcl MON(12) float dec(6) INIT(0,31,59,90,120,151,181,212,243,273,304,334);
if YEAR>0 & YEAR<MAXYEAR then MAXYEAR=YEAR;
if YEAR>0 & YEAR<78 then RETURN(0);
else if MONTH>0 & YEAR>0 & DAY<0 then DAY=15;
if MONTH>0 & MONTH<=12 & DAY>0 & DAY<32 & YEAR>=78 & YEAR<97 then do;
  LEAP=0;
  if YEAR>=80 then do;
    LEAP=CEIL((YEAR-80)/4);
    if MOD(YEAR,4)=0 & MONTH>2 then LEAP=LEAP+1;
  end;
  RETURN(((YEAR-78) *365 + MON(MONTH) + DAY + LEAP)/7);
end;
else RETURN(-3);
end WEEK;

1CALC: PROC(YR);
dcl YR float dec(6);
dcl CODE float dec(6);
CODE=-4;
WORK_HISTORY.LASTINT_JOBS(YR)=0;
do J=1 to 10;
  if (ID =893 | ID= 1696 ) then do;
       put file(sysprint)
     edit('BEFO *** TENURE error ID = ',ID,' JOB NO = ',J,
     ' WORK_HISTORY.TENURE(YR,J)  = ', WORK_HISTORY.TENURE(YR,J))
```

```
                   (skip(1),A,F(7,0),A,F(7,0),A,F(7,0));
          put file(sysprint)
      edit('    WORK_HISTORY.START(YR,J) =', WORK_HISTORY.START(YR,J),
       '    WORK_HISTORY.STOP(YR,J) =', WORK_HISTORY.STOP(YR,J))
                   (skip(1),A,F(8,3),A,F(8,3));
        end;
     if WORK_HISTORY.START(YR,J)>=0 & WORK_HISTORY.STOP(YR,J)>=0 then do;
        WORK_HISTORY.START(YR,J)=CEIL(WORK_HISTORY.START(YR,J));
        WORK_HISTORY.STOP(YR,J)=CEIL(WORK_HISTORY.STOP(YR,J));
        end;
        FLAG=0;
     if WORK_HISTORY.START(YR,J)>-4 | WORK_HISTORY.STOP(YR,J)>-4 then do;
      WORK_HISTORY.LASTINT_JOBS(YR)=WORK_HISTORY.LASTINT_JOBS(YR)+1;
      WORK_HISTORY.NUMBER(YR,J)=YR*100+J;
      WORK_HISTORY.HOURLYWAGE(YR,J)=HRP(J);
      if WORK_HISTORY.PAST(YR,J)=1 | WORK_HISTORY.PAST(YR,J)=2
        then WORK_HISTORY.START(YR,J)=WORK_HISTORY.LASTINT(YR);
      if WORK_HISTORY.CURRENT(YR,J)=1 then WORK_HISTORY.STOP(YR,J)=
        WORK_HISTORY.INT(YR);
      else if WORK_HISTORY.STOP(YR,J)>0 & WORK_HISTORY.STOP(YR,J)>
           WORK_HISTORY.INT(YR) then WORK_HISTORY.STOP(YR,J)=
           WORK_HISTORY.INT(YR);
     if (ID =893 | ID= 1696 ) then do;
          put file(sysprint)
        edit(' Chan *** TENURE error ID = ',ID,
         ' WORK_HISTORY.TENURE(YR,J)  = ', WORK_HISTORY.TENURE(YR,J))
                 (skip(2),A,F(7,0),A,F(7,0));
          put file(sysprint)
      edit('  HISTORY.LASTINT= ',WORK_HISTORY.LASTINT(YR),
         ' HISTORY.INT    = ',WORK_HISTORY.INT(YR),
         ' HISTORY.CURRENT= ',WORK_HISTORY.CURRENT(YR,J))
                 (skip(1),A,F(8,3),A,F(8,3),A,F(8,3));
          put file(sysprint)
      edit('    WORK_HISTORY.START(YR,J) =', WORK_HISTORY.START(YR,J),
       '    WORK_HISTORY.STOP(YR,J) =', WORK_HISTORY.STOP(YR,J))
                 (skip(1),A,F(8,3),A,F(8,3));
        end;
     if WORK_HISTORY.START(YR,J)>=0 & WORK_HISTORY.STOP(YR,J)>=
        WORK_HISTORY.START(YR,J) then do;
        WORK_HISTORY.START(YR,J)=CEIL(WORK_HISTORY.START(YR,J));
        WORK_HISTORY.STOP(YR,J)=CEIL(WORK_HISTORY.STOP(YR,J));
        WORK_HISTORY.TENURE(YR,J)=WORK_HISTORY.STOP(YR,J) -
        WORK_HISTORY.START(YR,J) + 1;
        call FILL(WORK_HISTORY.START(YR,J),WORK_HISTORY.STOP(YR,J),
             WORK_HISTORY.NUMBER(YR,J),WORK_HISTORY.HOURSWEEK(YR,J));
      end;
      else WORK_HISTORY.TENURE(YR,J)=-3;
        if (ID =893 | ID= 1696 ) then do;
          put file(sysprint)
        edit(' FIRST*** (TENURE error ID = ',ID,
         ' WORK_HISTORY.TENURE(YR,J)  = ', WORK_HISTORY.TENURE(YR,J))
                 (skip(1),A,F(7,0),A,F(7,0));
          put file(sysprint)
      edit('  WORK_HISTORY.START(YR,J)=',WORK_HISTORY.START(YR,J),
       ' WORK_HISTORY.STOP(YR,J)=',WORK_HISTORY.STOP(YR,J))
                 (skip(1),A,F(8,3),A,F(8,3));
```

```
     end;
   FLAG=1;
   if WORK_HISTORY.WEEKSNOTWORKED(YR,J)^=0 &
     WORK_HISTORY.WEEKSNOTWORKED(YR,J)^=-4 then do K=1 to 4;
     if WORK_HISTORY.PERIODSTOP(YR,J,K)>=0 &
       WORK_HISTORY.PERIODSTOP(YR,J,K)>WORK_HISTORY.INT(YR) then
       WORK_HISTORY.PERIODSTOP(YR,J,K)=WORK_HISTORY.INT(YR);
     if WORK_HISTORY.PERIODSTART(YR,J,K)>=0 &
       WORK_HISTORY.PERIODSTOP(YR,J,K)>=WORK_HISTORY.PERIODSTART(YR,J,K)
       then do;
       if WORK_HISTORY.REASON(YR,J,K)=2 then CODE=4;
       else if WORK_HISTORY.REASON(YR,J,K)>0 then do;
         if WORK_HISTORY.REASON(YR,J,K)^=3 &
           WORK_HISTORY.REASON(YR,J,K)^=4 then CODE=5;
         else do;
           if WORK_HISTORY.ALL(YR,J,K)=1 then CODE=5;
           else if WORK_HISTORY.ALL(YR,J,K)=3 then CODE=4;
           else if WORK_HISTORY.ALL(YR,J,K)=2 &
                WORK_HISTORY.LOOK(YR,J,K)>=0 then do;
             CODE=9;
             #WEEKS=WORK_HISTORY.LOOK(YR,J,K);
           end;
           else CODE=2;
         end;
       end;
       else CODE=2;
       call FILL(WORK_HISTORY.PERIODSTART(YR,J,K),
             WORK_HISTORY.PERIODSTOP(YR,J,K),CODE,
             WORK_HISTORY.HOURSWEEK(YR,J));
     end;
     else if K=1 then call FILL(WORK_HISTORY.START(YR,J),
           WORK_HISTORY.STOP(YR,J),3,WORK_HISTORY.HOURSWEEK(YR,J));
   end;
   if WORK_HISTORY.PREVIOUSEMP#(YR,J)>0 then do;
    if WORK_HISTORY.TENURE(YR,J)>0 &
      OLDHIST.OJOB(PR,WORK_HISTORY.PREVIOUSEMP#(YR,J),46)>0
     then WORK_HISTORY.TENURE(YR,J)=WORK_HISTORY.TENURE(YR,J)+
      OLDHIST.OJOB(PR,WORK_HISTORY.PREVIOUSEMP#(YR,J),46);
     else WORK_HISTORY.TENURE(YR,J)=-3;
       end;
  if (ID=893 | ID=1696) then do;
      put file(sysprint)
     edit('   SECOND** (TENURE error ID = ',ID,
      '    WORK_HISTORY.TENURE(YR,J)  = ', WORK_HISTORY.TENURE(YR,J))
           (skip(1),A,F(7,0),A,F(7,0));
      put file(sysprint)
   edit('   WORK_HISTORY.START(YR,J) =',WORK_HISTORY.START(YR,J),
    '    WORK_HISTORY.STOP(YR,J) =',WORK_HISTORY.STOP(YR,J))
           (skip(1),A,F(8,3),A,F(8,3));
      put file(sysprint)
 edit('   OLDHIST.OJOB(PR,WORK_HISTORY.PREVIOUSEMP#(YR,J),46)>0 =',
  OLDHIST.OJOB(PR,WORK_HISTORY.PREVIOUSEMP#(YR,J),46))
           (skip(1),A,F(8,3));
                  end;
   if WORK_HISTORY.PRETEN(YR,J)>-4 then do;
     if WORK_HISTORY.TENURE(YR,J)>=0 & WORK_HISTORY.PRETEN(YR,J)>=0 then
```

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        WORK_HISTORY.TENURE(YR,J)=WORK_HISTORY.TENURE(YR,J) + 4.3 *
        WORK_HISTORY.PRETEN(YR,J);
     else WORK_HISTORY.TENURE(YR,J)=-3;
    end;
  if (ID=893 | ID=1696 ) then do;
       put file(sysprint)
     edit('    THIRD*** (TENURE error ID = ',ID,
     '    WORK_HISTORY.TENURE(YR,J)  = ', WORK_HISTORY.TENURE(YR,J))
           (skip(1),A,F(7,0),A,F(7,0));
       put file(sysprint)
    edit('    WORK_HISTORY.START(YR,J) =',WORK_HISTORY.START(YR,J),
     '    WORK_HISTORY.STOP(YR,J) =',WORK_HISTORY.STOP(YR,J))
           (skip(1),A,F(8,3),A,F(8,3));
       put file(sysprint)
  edit('    WORK_HISTORY.PRETEN(YR,J)>=0 =',WORK_HISTORY.PRETEN(YR,J))
           (skip(1),A,F(8,3));
                    end;
    if WORK_HISTORY.TENURE(YR,J)<0 then WORK_HISTORY.TENURE(YR,J)=-3;
    else WORK_HISTORY.TENURE(YR,J)=FLOOR(WORK_HISTORY.TENURE(YR,J) + .5);
  end;
end;
FLAG=0;
do K=1 to 6;
  if WORK_HISTORY.BSTOP(YR,K)>=0 & WORK_HISTORY.BSTOP(YR,K)>
    WORK_HISTORY.INT(YR) then WORK_HISTORY.BSTOP(YR,K)=
    WORK_HISTORY.INT(YR);
  if WORK_HISTORY.BSTART(YR,K)>=0 & WORK_HISTORY.BSTOP(YR,K)>=
    WORK_HISTORY.BSTART(YR,K) then do;
    if WORK_HISTORY.BALL(YR,K)=1 then CODE=5;
    else if WORK_HISTORY.BALL(YR,K)=3 then CODE=4;
    else if WORK_HISTORY.BALL(YR,K)=2 & WORK_HISTORY.BLOOK(YR,K)>=0 then do;
      CODE=9;
      #WEEKS=WORK_HISTORY.BLOOK(YR,K);
    end;
    else CODE=2;
    call FILL(WORK_HISTORY.BSTART(YR,K),WORK_HISTORY.BSTOP(YR,K),CODE,0);
  end;
end;
PR=YR;
end CALC;

1FILL:PROC(WEEK_BEGAN,WEEK_ENDED,COD,HOURS);
dcl (WEEK_BEGAN,WEEK_ENDED,COD,HOURS) float dec;
if HOURS<0 then HOURS=-3;
else if HOURS=99 | HOURS=98 | HOURS=97 then HOURS=-3;
FILLER=0;WEEK_BEGAN=CEIL(WEEK_BEGAN);WEEK_ENDED=CEIL(WEEK_ENDED);
if WEEK_BEGAN>=0 & WEEK_ENDED>=WEEK_BEGAN then do F=WEEK_BEGAN to WEEK_ENDED;
  JJ = 1;
  if A(F)>100 & COD>100 &
  PR*100+WORK_HISTORY.PREVIOUSEMP#((FLOOR(COD/100)),(MOD(COD,100)))
  ^=A(F) then do;
    DUP=0;
    if DUALJOB(F,1)>0 then do;
      KK = 1;
      do WHILE ((KK <= 4) & (DUALJOB(F,KK) ^= 0));
        if PR*100+WORK_HISTORY.PREVIOUSEMP#((FLOOR(COD/100)),
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```
              (MOD(COD,100)))=DUALJOB(F,KK) then DUP=1;
        KK = KK + 1;
      end;
   end;
   if DUP=0 then do;
     if HOURS>0 & HOUR(F)>=0 then do;
       HOUR(F)=HOUR(F) + HOURS;
       if HOUR(F)>96 then HOUR(F)=96;
     end;
     else if HOUR(F)<96 then HOUR(F)=-3;
     if (MOD(COD,100)) = 0 | (MOD(COD,100)) > 10 then do;
       put file(sysprint)
         edit('*** (error) IN CREATING DUALJOB> ID = ',ID,
             '...COD = ',COD)
             (skip(1),A,F(7,0),A,F(7,0));
     end;
     else do;
       KK = 1;
       do WHILE (KK <= 4);
         if DUALJOB(F,KK) = 0 then do;
           if KK > 1 then do;
             DUALJOB(F,KK) = DUALJOB(F,KK-1);
             DUALJOB(F,KK-1) = COD;
           end;
           else DUALJOB(F,1) = COD;
           KK = 9;
         end;
         KK = KK + 1;
       end;
     end;
   end;
 end;
 else if DUALJOB(F,1)=0 & (FLAG=1 | A(F)<100) then do;
   if COD=9 then do;
     if HOURS>0 & HOUR(F)>0 & (HOUR(F) - HOURS>=0)
       then HOUR(F)=HOUR(F) - HOURS;
     else if HOURS>0 then HOUR(F)=0;
     else HOUR(F)=HOURS;
     if FILLER<#WEEKS & F>(WEEK_ENDED-WEEK_BEGAN-#WEEKS)/2 + WEEK_BEGAN
       then do;
       A(F)=4;
       FILLER=FILLER+1;
     end;
     else if A(F)^=4 then A(F)=5;
   end;
   else if (A(F)^=4 | COD>100) then do;
     A(F)=COD;
     if COD>100 then HOUR(F)=HOURS;
     else if HOURS>0 & COD^=3 then HOUR(F)=0;
     else HOUR(F)=HOURS;
   end;
 end;
 else if DUALJOB(F,1)>0  & FLAG=1 & (COD=2 | COD=4 | COD=5 | COD=9) then do;
   KK = 1;
   do WHILE (KK <= 4);
     if DUALJOB(F,KK) = 0 then do;
```

```
     if KK > 1 then DUALJOB(F,KK-1) = 0;
       KK = 9;
     end;
     KK = KK + 1;
     if KK = 5 then DUALJOB(F,4) = 0;
   end;
   if HOURS>0 & HOUR(F)>0 & (HOUR(F) - HOURS >=0)
     then HOUR(F)=HOUR(F) - HOURS;
   else if HOURS>0 then HOUR(F)=0;
   else HOUR(F)=HOURS;
  end;
 end;
 end FILL;

1SUMMER:PROC(YEAR);
 dcl YEAR float dec;
 WORK_HISTORY.CALENDAR_YEAR_SUM(YEAR)=0;
 WORK_HISTORY.WORKL(YEAR),WORK_HISTORY.HOURL(YEAR),
         WORK_HISTORY.WOLFL(YEAR),WORK_HISTORY.WUMPL(YEAR),
         WORK_HISTORY.MISSL(YEAR),WORK_HISTORY.NWMISSL(YEAR)=0;
 do K=WORK_HISTORY.LASTINT(YEAR) to WORK_HISTORY.INT(YEAR);
   if (k<=0) then
     put file(sysprint)
       edit('#error: Proc SUMMER: out of range value. ', K)
         (skip(1),A,F(10));
   if A(K)>100 then do;
     WORK_HISTORY.WORKL(YEAR)=WORK_HISTORY.WORKL(YEAR)+1;
     if WORK_HISTORY.HOURL(YEAR)^=-3 & HOUR(K)>0
       then WORK_HISTORY.HOURL(YEAR)=WORK_HISTORY.HOURL(YEAR)+HOUR(K);
     else WORK_HISTORY.HOURL(YEAR)=-3;
   end;
   else if A(K)=4 then do;
     if WORK_HISTORY.WUMPL(YEAR)^=-3 then WORK_HISTORY.WUMPL(YEAR)=
       WORK_HISTORY.WUMPL(YEAR)+1;
   end;
   else if A(K)=2 then do;
     WORK_HISTORY.NWMISSL(YEAR)=WORK_HISTORY.NWMISSL(YEAR)+1;
     WORK_HISTORY.WUMPL(YEAR),WORK_HISTORY.WOLFL(YEAR)=-3;
   end;
   else if A(K)=5 | A(K)=7 then do;
     if WORK_HISTORY.WOLFL(YEAR)^=-3 then WORK_HISTORY.WOLFL(YEAR)=
       WORK_HISTORY.WOLFL(YEAR)+1;
   end;
   else if A(K)=3 then do;
     WORK_HISTORY.WORKL(YEAR)=WORK_HISTORY.WORKL(YEAR)+1;
     WORK_HISTORY.MISSL(YEAR)=WORK_HISTORY.MISSL(YEAR)+1;
     if WORK_HISTORY.HOURL(YEAR)^=-3 & HOUR(K)>0 then
       WORK_HISTORY.HOURL(YEAR)=WORK_HISTORY.HOURL(YEAR)+HOUR(K);
     else WORK_HISTORY.HOURL(YEAR)=-3;
     WORK_HISTORY.WUMPL(YEAR),WORK_HISTORY.WOLFL(YEAR)=-3;
   end;
   else do;
     WORK_HISTORY.MISSL(YEAR)=WORK_HISTORY.MISSL(YEAR)+1;
     WORK_HISTORY.WOLFL(YEAR),WORK_HISTORY.WUMPL(YEAR)=-3;
   end;
 end;
```

```
SUMOUT:WORK_HISTORY.WBID(YEAR)=WORK_HISTORY.INT(YEAR)-
WORK_HISTORY.LASTINT(YEAR)+1;
dcl PICKJOB float dec(6);
do K=1+(YEAR-1)*52 to YEAR*52;
  if A(K)>100 then do;
    WORK_HISTORY.WORKC(YEAR)=WORK_HISTORY.WORKC(YEAR)+1;
    if WORK_HISTORY.HOURC(YEAR)^=-3 & HOUR(K)>0 then
      WORK_HISTORY.HOURC(YEAR)=WORK_HISTORY.HOURC(YEAR)+HOUR(K);
    else WORK_HISTORY.HOURC(YEAR)=-3;
    if WORK_HISTORY.CAL_YEAR_JOBS(YEAR)=0 then do;
      WORK_HISTORY.CAL_YEAR_JOBS(YEAR)= WORK_HISTORY.CAL_YEAR_JOBS(YEAR)+1;
      WORK_HISTORY.CAL_YEAR_JOB#(YEAR,WORK_HISTORY.CAL_YEAR_JOBS(YEAR))=A(K);
    end;
    else do;
      do J=WORK_HISTORY.CAL_YEAR_JOBS(YEAR) to 1 by -1;
        if FLOOR(A(K)/100) < YEAR then
          PICKJOB=OLDHIST.OJOB(FLOOR(A(K)/100),MOD(A(K),100),43);
      else PICKJOB=WORK_HISTORY.PREVIOUSEMP#(FLOOR(A(K)/100),MOD(A(K),100));
        if A(K)=WORK_HISTORY.CAL_YEAR_JOB#(YEAR,J) | PR*100 + PICKJOB
          =WORK_HISTORY.CAL_YEAR_JOB#(YEAR,J) then go to NOCOUNT;
      end;
      WORK_HISTORY.CAL_YEAR_JOBS(YEAR)= WORK_HISTORY.CAL_YEAR_JOBS(YEAR)+1;
      WORK_HISTORY.CAL_YEAR_JOB#(YEAR,WORK_HISTORY.CAL_YEAR_JOBS(YEAR))=
      A(K);
    end;
    NOCOUNT:
  end;
  else if A(K)=4 then do;
    if WORK_HISTORY.WUMPC(YEAR)^=-3 then WORK_HISTORY.WUMPC(YEAR)=
      WORK_HISTORY.WUMPC(YEAR)+1;
  end;
  else if A(K)=2 then do;
    WORK_HISTORY.NWMISSC(YEAR)=WORK_HISTORY.NWMISSC(YEAR)+1;
    WORK_HISTORY.WUMPC(YEAR),WORK_HISTORY.WOLFC(YEAR)=-3;
  end;
  else if A(K)=5 | A(K)=7 then do;
    if WORK_HISTORY.WOLFC(YEAR)^=-3 then WORK_HISTORY.WOLFC(YEAR)=
      WORK_HISTORY.WOLFC(YEAR)+1;
    if A(K)=7 & WORK_HISTORY.MILWKSC(YEAR)>=0 then
      WORK_HISTORY.MILWKSC(YEAR)=WORK_HISTORY.MILWKSC(YEAR)+1;
  end;
  else if A(K)=3 then do;
    WORK_HISTORY.WORKC(YEAR)=WORK_HISTORY.WORKC(YEAR)+1;
    WORK_HISTORY.MISSC(YEAR)=WORK_HISTORY.MISSC(YEAR)+1;
    if WORK_HISTORY.HOURC(YEAR)^=-3 & HOUR(K)>0 then
      WORK_HISTORY.HOURC(YEAR)=WORK_HISTORY.HOURC(YEAR)+HOUR(K);
    else WORK_HISTORY.HOURC(YEAR)=-3;
    WORK_HISTORY.WUMPC(YEAR),WORK_HISTORY.WOLFC(YEAR)=-3;
  end;
  else do;
    WORK_HISTORY.MISSC(YEAR)=WORK_HISTORY.MISSC(YEAR)+1;
    WORK_HISTORY.WOLFC(YEAR),WORK_HISTORY.WUMPC(YEAR)=-3;
  end;
end;
if WORK_HISTORY.MILWKSC(YEAR)=0 then WORK_HISTORY.MILWKSC(YEAR)=-4;
CALOUT:
```

```
WORK_HISTORY.MISSL(YEAR)=FLOOR((WORK_HISTORY.MISSL(YEAR)/
(WORK_HISTORY.INT(YEAR)-WORK_HISTORY.LASTINT(YEAR)+1)*100));
WORK_HISTORY.NWMISSL(YEAR)=FLOOR((WORK_HISTORY.NWMISSL(YEAR)/
(WORK_HISTORY.INT(YEAR)-WORK_HISTORY.LASTINT(YEAR)+1)*100));
WORK_HISTORY.MISSC(YEAR)=FLOOR((WORK_HISTORY.MISSC(YEAR)/52)*100);
WORK_HISTORY.NWMISSC(YEAR)=FLOOR((WORK_HISTORY.NWMISSC(YEAR)/52)*100);
end SUMMER;

HRP:PROC(JOBNO) RETURNS(float dec(6));  /* modified 1/09/93 */
dcl (JOBNO) fixed bin(15);
if WORK_HISTORY.PAYRATE(NEWYEAR,JOBNO)>0 &
  WORK_HISTORY.TIMERATE(NEWYEAR,JOBNO)>0 then do;
 if WORK_HISTORY.PAYRATE(NEWYEAR,JOBNO)=9999995 then RETURN(-4);
  else if WORK_HISTORY.TIMERATE(NEWYEAR,JOBNO)=1 then
      RETURN(WORK_HISTORY.PAYRATE(NEWYEAR,JOBNO));
  else if WORK_HISTORY.TIMERATE(NEWYEAR,JOBNO)=2 &
       WORK_HISTORY.HOURDAY(NEWYEAR,JOBNO)>0 then
    RETURN((FLOOR(WORK_HISTORY.PAYRATE(NEWYEAR,JOBNO)/
        WORK_HISTORY.HOURDAY(NEWYEAR,JOBNO))));
  else if WORK_HISTORY.TIMERATE(NEWYEAR,JOBNO)>=3 &
       WORK_HISTORY.TIMERATE(NEWYEAR,JOBNO)<=8 &
       WORK_HISTORY.HOURSWEEK(NEWYEAR,JOBNO)>0 then do;
   if WORK_HISTORY.TIMERATE(NEWYEAR,JOBNO)=3 then
    RETURN((FLOOR(WORK_HISTORY.PAYRATE(NEWYEAR,JOBNO)/
        WORK_HISTORY.HOURSWEEK(NEWYEAR,JOBNO))));
   else if WORK_HISTORY.TIMERATE(NEWYEAR,JOBNO)=4 then
    RETURN((FLOOR(WORK_HISTORY.PAYRATE(NEWYEAR,JOBNO)/
        (WORK_HISTORY.HOURSWEEK(NEWYEAR,JOBNO)*2))));
   else if WORK_HISTORY.TIMERATE(NEWYEAR,JOBNO)=5 then
    RETURN((FLOOR(WORK_HISTORY.PAYRATE(NEWYEAR,JOBNO)/
        (WORK_HISTORY.HOURSWEEK(NEWYEAR,JOBNO)*4.3))));
   else if WORK_HISTORY.TIMERATE(NEWYEAR,JOBNO)=6 then
    RETURN((FLOOR(WORK_HISTORY.PAYRATE(NEWYEAR,JOBNO)/
        (WORK_HISTORY.HOURSWEEK(NEWYEAR,JOBNO)*52))));
   else if WORK_HISTORY.TIMERATE(NEWYEAR,JOBNO)=8 then
    RETURN((FLOOR(WORK_HISTORY.PAYRATE(NEWYEAR,JOBNO)/
        (WORK_HISTORY.HOURSWEEK(NEWYEAR,JOBNO)*2.15))));
  end;
  else RETURN(-4);
end;
else RETURN(-4);
end HRP;

done:
  /***** TEMPORARY DUMP OF NEW VAR 7/22/91 ******/
  /* do i = 1 to newyear-1;
    put file(sysprint) edit('ojobever(',i,')= ',oldhist(i).ojobever)       (skip(1),a,f(2),a,f(10));
  end;
  put file(sysprint) edit('work_history.jobever(newyear)= ',
           work_history.jobever(newyear))(skip(1),a,f(10));       */
  put file(sysprint) edit(' NUMBER OF RECORDS read from WORKTAP =',kount)      (skip(2),A,F(7,0));
  put file(sysprint) edit(' NUMBER OF RECORDS read from VARSNYR =',kountnew)  (skip(2),A,F(7,0));
  put file(sysprint) edit(' NUMBER OF RECORDS read from ADDJOBS =',kountadd)   (skip(2),A,F(7,0));
  put file(sysprint) edit(' NUMBER OF RECORDS read from TABLE  =',TBL_CNT)     (skip(2),A,F(7,0));
  put file(sysprint) edit(' WORK HISTORY RECORDS WRITTEN out    =',kount_out)  (skip(2),A,F(7,0));
  put file(sysprint) edit(' EXTRA WORK RECORDS WRITTEN out      =',kount_XVR) (skip(2),A,F(7,0));
```

```
   put file(sysprint) edit(' # OF CURRENT YEAR ZERO WORK_HISTORY.WEIGHT CASES
     =',WTZERO) (skip(2),A,F(7,0));
 end DMPDATA;
```

/**1994**/

```
 (SUBRG):
 DMPDATA: PROC options(MAIN);
 default RANGE(I:N) float;
 dcl WORKTAP file record input;          /* current work history tape  */
 dcl VARSNYR file stream input;          /* new year data-8991 cases, inc. wt */
 dcl IDTABLE file stream input;          /* cross-walk of ID's */
 /* dcl addjobs file record input;        / new year add jobs file  */
 /* dcl wts    file stream input;  wts  w/norc ids */
 dcl NEWWORK file record output;         /* writes new updated work history tape */
 dcl OUTDISK file stream output;         /* writes 94 key vars file on disk */
 dcl (MOD,FLOOR,CEIL,SUBSTR) BUILTIN, sysprint file;
 dcl ENDVARS fixed bin(15);
 dcl (OLDA,ALIM,J,K,KK,JJ,N,I,NUMVAR) fixed bin(15);
 dcl (NA,DK,NEWYEAR,MAX,MAXYEAR,MAXDUAL,MAXINT,PR,SURVEY_YR,
    P,LEAP,FILLER,F,DUP,DUA,DIV,FLAG,#WEEKS,WTID,WTYR) float dec(6);
 dcl(kount,kountadd,kountnew,kountold,kount_out,kount_XVR) fixed bin(15);
 dcl (kountfix,WTZERO,TBL_CNT) fixed bin(15);
 on endfile(WORKTAP) go to done;
 on endfile(VARSNYR) ENDVARS=1;
 on error go to done;
 OLDA=844; ALIM=896; NEWYEAR=16; SURVEY_YR=94;  /* note: update this line for arrays limit & year */

 dcl 1 IDTBLE,
    2 TABLE_ID  float dec(6),
    2 NORCIDS   float dec(6);
 dcl 1 STRUCTIN,                         /*current workhistory record */
    2 INFO(10)       float dec(6),       /* ID and birthdates from 1979 and 1981          */
    2 ARRAY1(0:844)   fixed bin(15,0),
    2 ARRAY2(0:844)   fixed bin(15,0),
    2 ARRAY3(0:844,4)  fixed bin(15,0),
    2 HISTYRS(15),
     5 OWT           float dec(6),
     5 OLASTINT       float dec(6),
     5 OINT          float dec(6),
     5 OINTM          float dec(6),
     5 OINTD          float dec(6),
     5 OINTY          float dec(6),
     5 OJOB(5,47)      float dec(6),      /* 5 possible job, 47 vars for each.  See 1994 work  */
                                          /* history (newyear:newyear) below.             */
     5 OBTWNJOBS(6,5)    float dec(6),    /* 6 possible btwn-jobs gaps. */
                                          /* See between jobs (6) for 1994 vars below.        */
     5 OMILIT(6)       float dec(6),      /* 6 military vars.  See military (6) for 1994 vars below.   */
     5 OCALENDAR(12)    float dec(6),     /* 17 calendar year vars. See */
                                          /* calendar year_sum for 1994 vars below.           */
     5 OLASTSUM(8)      float dec(6),     /* 8 vars from last int. See  lastint_sum for 1994 vars below.  */
     5 OJOBEVER       float dec(6);       /* number of jobs ever reprtd by R at int date. see 1994  */
 dcl CPS_HOURLYWAGE(16) float dec(6);
 dcl 1 VARIABLES,
    2 ID           float dec(6),          /* ID number of respondent, X(1) */
    2 SAMPLE_ID      float dec(6),        /* sample type, X(1561) */
```

```
 2 SEX          float dec(6),
 2 RACE         float dec(6),
 2 BIRTHM_79      float dec(6),
 2 BIRTHD_79      float dec(6),
 2 BIRTHY_79      float dec(6),
 2 BIRTHM_81      float dec(6),
 2 BIRTHD_81      float dec(6),
 2 BIRTHY_81      float dec(6),
 2 A(0:896)      fixed bin(15,0),
 2 HOUR(0:896)     fixed bin(15,0),
 2 DUALJOB(0:896,4)  fixed bin(15,0),
 2 OLDHIST(15),
   5 OWT         float dec(6),
   5 OLASTINT     float dec(6),
   5 OINT        float dec(6),
   5 OINTM        float dec(6),
   5 OINTD        float dec(6),
   5 OINTY        float dec(6),
   5 OJOB(5,47)   float dec(6),
   5 OBTWNJOBS(6,5) float dec(6),
   5 OMILIT(6)     float dec(6),
   5 OCALENDAR(12)  float dec(6),
   5 OLASTSUM(8)    float dec(6),
   5 OJOBEVER      float dec(6),
 2 WORK_HISTORY_5JOB(16:16),
   5 WEIGHT,                  /* sampling weight   */
   5 LASTINT,                 /* week number of last interview */
   5 INT,                     /* week number of current interview */
   5 INTM,                    /* month of the interview */
   5 INTD,                    /* day of the interview */
   5 INTY,                    /* year of the interview */
   5 JOB(5),                  /* 10 possible jobs for each interview */
    10 START,                 /* starting week of the job */
    10 STARTM,                /* starting month of the job */
    10 STARTD,                /* starting day of the job */
    10 STARTY,                /* starting year of the job */
    10 STOP,                  /* stopping week of the job */
    10 STOPM,                 /* stopping month of the job */
    10 STOPD,                 /* stopping day of the job */
    10 STOPY,                 /* stopping year of the job */
    10 PAST,                  /* has R worked at job before last interview */
    10 CURRENT,               /* working at job at interview date */
    10 WHYLEFT,               /* reason left job if not currently working */
    10 CPSJOB,                /* is this job same as the cps job */
    10 HOURSWEEK,             /* usual hours per week at this job */
    10 OCCUPATION,            /* usual occupation at this job */
    10 INDUSTRY,              /* usual industry at this job */
    10 CLASSWORKER,           /* class of worker at this job */
    10 HOURDAY,               /* usual hours per day worked at this job */
    10 PAYRATE,               /* usual wage or salary at this job */
    10 TIMERATE,              /* time unit to interpret payrate */
    10 HOURLYWAGE,            /* usual wage converted to hourly wage */
    10 UNION,                 /* wages set by collective bargaining */
    10 GOVTJOB,               /* is this job government-sponsored */
    10 WEEKSNOTWORKED,        /* any weeks not working at this job */
    10 PERIOD_IN_JOB(4),      /* information on each period not working */
```

```
        15 PERIODSTART,                /* starting wk number of period not working */
        15 PERIODSTOP,                 /* stopping wk number of period not working */
        15 REASON,                     /* reason not working for this period */
        15 ALL,                        /* how much time unemployed in this period */
        15 LOOK,                       /* number of weeks unemployed in this period */
      10 PREVIOUSEMP#,                 /* job number of employer from last int */
      10 PRETEN,                       /* months worked for employer before lastint */
      10 TENURE,                       /* total weeks tenure as of interview date */
      10 NUMBER,                       /* job number which is loaded into 'A' array */
    5 BETWEEN_JOBS(6),                 /* information about periods not working between jobs and military
        service */
      10 BSTART,                       /* week started this period not working */
      10 BSTOP,                        /* week stopped this period not working */
      10 BALL,                         /* how much of period not worked unemployed */
      10 BLOOK,                        /* number of weeks unemployed in this period */
      10 BREASON,                      /* reason not looking for work this period */
    5 MILITARY,                        /* information about active military service */
      10 MSTART1,                      /* starting week of first period of service */
      10 MSTART2,                      /* starting week of second period of service */
      10 MSTOP1,                       /* stopping week of first period of service */
      10 MSTOP2,                       /* stopping week of second period of service */
      10 MILWKSL,                      /* weeks active military service as of int */
      10 MILWKSC,                      /* weeks active military service in the calendar year */
    5 CALENDAR_YEAR_SUM,               /* key variables for the calendar year */
      10 WORKC,                        /* weeks worked in the calendar year */
      10 HOURC,                        /* hours worked in the calendar year */
      10 WUMPC,                        /* weeks unemployed in the calendar year */
      10 WOLFC,                        /* weeks out of labor force in calendar year */
      10 CAL_YEAR_JOBS,                /* number of jobs in the calendar year */
      10 CAL_YEAR_JOB#(5),             /* job numbers in the calendar year */
      10 MISSC,                        /* % of weeks unaccounted for in year */
      10 NWMISSC,                      /* % weeks not employed that can't be split */
    5 LASTINT_SUM,                     /* key variables calculated since last int */
      10 LASTINT_JOBS,                 /* number of jobs since last interview */
      10 WORKL,                        /* number of weeks worked since last int */
      10 HOURL,                        /* number of hours worked since last int */
      10 WUMPL,                        /* number of weeks unemployed since last int */
      10 WOLFL,                        /* weeks out of labor force since last int */
      10 WBID,                         /* number of weeks since last int */
      10 MISSL,                        /* % of weeks unaccounted for since last int */
      10 NWMISSL,                      /* % weeks not employed that can't be split */
      10 JOBEVER;                      /* number of different jobs ever held */
 dcl 1 WORK_HISTORY(16:16),
    5 WEIGHT,                          /* sampling weight   */
    5 LASTINT,                         /* week number of last interview */
    5 INT,                            /* week number of current interview */
    5 INTM,                            /* month of the interview */
    5 INTD,                            /* day of the interview */
    5 INTY,                            /* year of the interview */
    5 JOB(10),                         /* 10 possible jobs for each interview */
      10 START,                        /* starting week of the job */
      10 STARTM,                       /* starting month of the job */
      10 STARTD,                       /* starting day of the job */
      10 STARTY,                       /* starting year of the job */
      10 STOP,                         /* stopping week of the job */
      10 STOPM,                        /* stopping month of the job */
```

```
  10 STOPD,                    /* stopping day of the job */
  10 STOPY,                    /* stopping year of the job */
  10 PAST,                     /* has R worked at job before last interview */
  10 CURRENT,                  /* working at job at interview date */
  10 WHYLEFT,                  /* reason left job if not currently working */
  10 CPSJOB,                   /* is this job same as the cps job */
  10 HOURSWEEK,                /* usual hours per week at this job */
  10 OCCUPATION,               /* usual occupation at this job */
  10 INDUSTRY,                 /* usual industry at this job */
  10 CLASSWORKER,              /* class of worker at this job */
  10 HOURDAY,                  /* usual hours per day worked at this job */
  10 PAYRATE,                  /* usual wage or salary at this job */
  10 TIMERATE,                 /* time unit to interpret payrate */
  10 HOURLYWAGE,               /* usual wage converted to hourly wage */
  10 UNION,                    /* wages set by collective bargaining */
  10 GOVTJOB,                  /* is this job government-sponsored */
  10 WEEKSNOTWORKED,           /* any weeks not working at this job */
  10 PERIOD_IN_JOB(4),         /* information on each period not working */
    15 PERIODSTART,            /* starting wk number of period not working */
    15 PERIODSTOP,             /* stopping wk number of period not working */
    15 REASON,                 /* reason not working for this period */
    15 ALL,                    /* how much time unemployed in this period */
    15 LOOK,                   /* number of weeks unemployed in this period */
  10 PREVIOUSEMP#,             /* job number of employer from last int */
  10 PRETEN,                   /* months worked for employer before lastint */
  10 TENURE,                   /* total weeks tenure as of interview date */
  10 NUMBER,                   /* job number which is loaded into 'A' array */
 5 BETWEEN_JOBS(6),            /* information about periods not working between jobs and military
     service */
  10 BSTART,                   /* week started this period not working */
  10 BSTOP,                    /* week stopped this period not working */
  10 BALL,                     /* how much of period not worked unemployed */
  10 BLOOK,                    /* number of weeks unemployed in this period */
  10 BREASON,                  /* reason not looking for work this period */
 5 MILITARY,                   /* information about active military service */
  10 MSTART1,                  /* starting week of first period of service */
  10 MSTART2,                  /* starting week of second period of service */
  10 MSTOP1,                   /* stopping week of first period of service */
  10 MSTOP2,                   /* stopping week of second period of service */
  10 MILWKSL,                  /* weeks active military service as of int */
  10 MILWKSC,                  /* weeks active military service in the calendar year */
 5 CALENDAR_YEAR_SUM,          /* key variables for the calendar year */
  10 WORKC,                    /* weeks worked in the calendar year */
  10 HOURC,                    /* hours worked in the calendar year */
  10 WUMPC,                    /* weeks unemployed in the calendar year */
  10 WOLFC,                    /* weeks out of labor force in calendar year */
  10 CAL_YEAR_JOBS,            /* number of jobs in the calendar year */
  10 CAL_YEAR_JOB#(10),        /* job numbers in the calendar year */
  10 MISSC,                    /* % of weeks unaccounted for in year */
  10 NWMISSC,                  /* % weeks not employed that can't be split */
 5 LASTINT_SUM,                /* key variables calculated since last int */
  10 LASTINT_JOBS,             /* number of jobs since last interview */
  10 WORKL,                    /* number of weeks worked since last int */
  10 HOURL,                    /* number of hours worked since last int */
  10 WUMPL,                    /* number of weeks unemployed since last int */
  10 WOLFL,                    /* weeks out of labor force since last int */
```

```
    10 WBID,                      /* number of weeks since last int */
    10 MISSL,                     /* % of weeks unaccounted for since last int */
    10 NWMISSL,                   /* % weeks not employed that can't be split */
    10 JOBEVER;                   /* number of different jobs ever held */

 NA=-4; DK=-3; TEMCNT = 0; CASEID=0; TABLE_ID=0; ENDVARS=0; /* eof flag for varsnyr */
 kount=0; kountadd=0; kountnew=0; kountold=0; kount_out=0; kount_XVR=0; kountfix=0; WTZERO=0;
         MAX=0; MAXYEAR=100; MAXDUAL=0; MAXINT=0;
1READ1:  read file (WORKTAP) into (STRUCTIN);
   kount=kount+1;
   ID=INFO(1);
   SAMPLE_ID=INFO(2);
   SEX=INFO(3);
   RACE=INFO(4);
   BIRTHM_79=INFO(5);        BIRTHD_79=INFO(6);        BIRTHY_79=INFO(7);
   BIRTHM_81=INFO(8);        BIRTHD_81=INFO(9);        BIRTHY_81=INFO(10);
   A=0; HOUR=0; DUALJOB=0;

   do J=0 to OLDA;  /* copy old array info into the current array struct */
    A(J)=ARRAY1(J); HOUR(J)=ARRAY2(J);
    do K = 1 to 4;
      DUALJOB(J,K) = ARRAY3(J,K);
    end;
   end;

   OLDHIST=HISTYRS, by NAME;
  /* no hand edits for 1994 only - correct past errors */

 if ( (TABLE_ID < ID) & (ENDVARS=0)) then do;
   do WHILE ( (TABLE_ID<ID) & (ENDVARS=0) );
     get file (IDTABLE) edit(TABLE_ID,NORCIDS) (COL(5),F(5),COL(12),F(7));
     TBL_CNT=TBL_CNT+1;
   end;
   if ( (CASEID < NORCIDS) & (ENDVARS=0) ) then do;
    %INCLUDE WHCROSS;
    if PUBLIC_ID= 5078 then CASEID=57588;   /*FIX BAD CAPI ID-2 CASES*/
    if PUBLIC_ID=10524 then CASEID=126532;

/************** CODE FOR CHECKING ID, SURVEY MATCHES
if TEMCNT < 30 then do;
put file(sysprint) edit(' TABLE CODE      ID=',ID) (skip(2),A,F(7,0));
put file(sysprint) edit('TABLE CODE TABLE_ID=',TABLE_ID) (skip(1),A,F(7,0));
put file(sysprint) edit(' TABLE CODE CASEID=',CASEID) (skip(1),A,F(7,0));
put file(sysprint) edit(' TABLE CODE NORCIDS=',NORCIDS) (skip(1),A,F(7,0));
put file(sysprint) edit(' NEWDATA WT94=     ',WT94) (skip(1),A,F(7,0));
            end; *****************/
   kountnew=kountnew+1;
  end;
 end;

 if (NORCIDS^=CASEID) then go to SKIPME;

 /* begin consolidation of CAPI variables to approximate PAPI variables */
 /* mil start date - branch since dli - served active duty */
 Q4_12MC=-4; Q4_12DC=-4; Q4_12YC=-4;
 if Q4_12B_A>-4 then Q4_12MC=Q4_12B_A;        else if Q4_12C_A>=-4 then Q4_12MC=Q4_12C_A;
```

```
                                                  else if WT94=0 then Q4_12MC=-5;
if Q4_12B_B>-4 then Q4_12DC=Q4_12B_B;            else if Q4_12C_B>=-4 then Q4_12DC=Q4_12C_B;
                                                  else if WT94=0 then Q4_12DC=-5;
if Q4_12B_C>-4 then Q4_12YC=Q4_12B_C;            else if Q4_12C_C>=-4 then Q4_12YC=Q4_12C_C;
                                                  else if WT94=0 then Q4_12YC=-5;


/* mil separation date - branch since dli - served active duty */
Q4_13_AC=-4; Q4_13_BC=-4; Q4_13_CC=-4;
if Q4_13_A>-4 then Q4_13_AC=Q4_13_A;             else if Q4_13A_A>=-4 then Q4_13_AC=Q4_13A_A;
                                                  else if WT94=0 then Q4_13_AC=-5;
if Q4_13_B>-4 then Q4_13_BC=Q4_13_B;             else if Q4_13A_B>=-4 then Q4_13_BC=Q4_13A_B;
                                                  else if WT94=0 then Q4_13_BC=-5;
if Q4_13_C>-4 then Q4_13_CC=Q4_13_C;             else if Q4_13A_C>=-4 then Q4_13_CC=Q4_13A_C;
                                                  else if WT94=0 then Q4_13_CC=-5;


/* employer #1 */
/* start date */
QES1_8MC=-4; QES1_8DC=-4; QES1_8YC=-4;
if QES1_8_A>-4 then QES1_8MC=QES1_8_A;           else if QES1_8A_A>=-4 then QES1_8MC=QES1_8A_A;
                                                  else if WT94=0 then QES1_8MC=-5;
if QES1_8_B>-4 then QES1_8DC=QES1_8_B;           else if QES1_8A_B>=-4 then QES1_8DC=QES1_8A_B;
                                                  else if WT94=0 then QES1_8DC=-5;
if QES1_8_C>-4 then QES1_8YC=QES1_8_C;           else if QES1_8A_C>=-4 then QES1_8YC=QES1_8A_C;
                                                  else if WT94=0 then QES1_8YC=-5;
/* wjg #1 reason */
QES1_33_1C=-4;
if QES1_34_1>-4 then QES1_33_1C=QES1_34_1;       else if QES1_33_1>=-4 then QES1_33_1C=QES1_33_1;
                                                  else if WT94=0 then QES1_33_1C=-5;
/* wjg #2 reason */
QES1_33_2C=-4;
if QES1_34_2>-4 then QES1_33_2C=QES1_34_2;       else if QES1_33_2>=-4 then QES1_33_2C=QES1_33_2;
                                                  else if WT94=0 then QES1_33_2C=-5;
/* wjg #3 reason */
QES1_33_3C=-4;
if QES1_34_3>-4 then QES1_33_3C=QES1_34_3;       else if QES1_33_3>=-4 then QES1_33_3C=QES1_33_3;
                                                  else if WT94=0 then QES1_33_3C=-5;
/* wjg #4 reason */
QES1_33_4C=-4;
if QES1_34_4>-4 then QES1_33_4C=QES1_34_4;       else if QES1_33_4>=-4 then QES1_33_4C=QES1_33_4;
                                                  else if WT94=0 then QES1_33_4C=-5;
/* payrate */
PAYRATE1=-4;
if QES1_71A=1 then do;
  if QES1_73J>0 then PAYRATE1=QES1_73J;
  else if QES1_73J>-4 & QES1_73J<0 then PAYRATE1=QES1_73J;
   else if QES1_71R>0 then PAYRATE1=QES1_71R;
    else if QES1_71R>-4 & QES1_71R<0 then PAYRATE1=QES1_71R;
     else if QES1_71P>0 then PAYRATE1=QES1_71P;
      else if QES1_71P>-4 & QES1_71P<0 then PAYRATE1=QES1_71P;
       else if QES1_71J>0 then PAYRATE1=QES1_71J;
        else if QES1_71J>-4 & QES1_71J<0 then PAYRATE1=QES1_71J;
         else if QES1_71I>0 then PAYRATE1=QES1_71I;
          else if QES1_71I>-4 & QES1_71I<0 then PAYRATE1=QES1_71I;
           else if QES1_73J=0 & QES1_71R=0 & QES1_71P=0 & QES1_71J=0
              & QES1_71I=0 then PAYRATE1=-4;
end;
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else if QES1_71A=2 | QES1_71A=3 | QES1_71A=7 then do;
  if QES1_74R>0 then PAYRATE1=QES1_74R;
   else if QES1_74R>-4 & QES1_74R<0 then PAYRATE1=QES1_74R;
    else if QES1_74Q>0 then PAYRATE1=QES1_74Q;
     else if QES1_74Q>-4 & QES1_74Q<0 then PAYRATE1=QES1_74Q;
      else if QES1_74M>0 then PAYRATE1=QES1_74M;
       else if QES1_74M>-4 & QES1_74M<0 then PAYRATE1=QES1_74M;
        else if QES1_74K>0 then PAYRATE1=QES1_74K;
         else if QES1_74K>-4 & QES1_74K<0 then PAYRATE1=QES1_74K;
          else if QES1_74E>0 then PAYRATE1=QES1_74E;
           else if QES1_74E>-4 & QES1_74E<0 then PAYRATE1=QES1_74E;
            else if QES1_74D>0 then PAYRATE1=QES1_74D;
             else if QES1_74D>-4 & QES1_74D<0 then PAYRATE1=QES1_74D;
              else if QES1_74R=0 & QES1_74Q=0 & QES1_74M=0 & QES1_74K=0
                 & QES1_74E=0 & QES1_74D=0 then PAYRATE1=-4;
end;
else if QES1_71A=5 | QES1_71A=8 then do;
  if QES1_75H>0 then PAYRATE1=QES1_75H;
   else if QES1_75H>-4 & QES1_75H<0 then PAYRATE1=QES1_75H;
    else if QES1_75G>0 then PAYRATE1=QES1_75G;
     else if QES1_75G>-4 & QES1_75G<0 then PAYRATE1=QES1_75G;
      else if QES1_75D>0 then PAYRATE1=QES1_75D;
       else if QES1_75D>-4 & QES1_75D<0 then PAYRATE1=QES1_75D;
        else if QES1_75B>0 then PAYRATE1=QES1_75B;
         else if QES1_75B>-4 & QES1_75B<0 then PAYRATE1=QES1_75B;
          else if QES1_74V>0 then PAYRATE1=QES1_74V;
           else if QES1_74V>-4 & QES1_74V<0 then PAYRATE1=QES1_74V;
            else if QES1_74U>0 then PAYRATE1=QES1_74U;
             else if QES1_74U>-4 & QES1_74U<0 then PAYRATE1=QES1_74U;
              else if QES1_75H=0 & QES1_75G=0 & QES1_75D=0 & QES1_75B=0
                 & QES1_74V=0 & QES1_74U=0 then PAYRATE1=-4;
end;
else if QES1_71A=6 then do;
  if QES1_75W>-4 then PAYRATE1=QES1_75W;
   else if QES1_75W>-4 & QES1_75W<0 then PAYRATE1=QES1_75W;
    else if QES1_75V>-4 then PAYRATE1=QES1_75V;
     else if QES1_75V>-4 & QES1_75V<0 then PAYRATE1=QES1_75V;
      else if QES1_75S>-4 then PAYRATE1=QES1_75S;
       else if QES1_75S>-4 & QES1_75S<0 then PAYRATE1=QES1_75S;
        else if QES1_75Q>-4 then PAYRATE1=QES1_75Q;
         else if QES1_75Q>-4 & QES1_75Q<0 then PAYRATE1=QES1_75Q;
          else if QES1_75K>-4 then PAYRATE1=QES1_75K;
           else if QES1_75K>-4 & QES1_75K<0 then PAYRATE1=QES1_75K;
            else if QES1_75J>-4 then PAYRATE1=QES1_75J;
             else if QES1_75J>-4 & QES1_75J<0 then PAYRATE1=QES1_75J;
              else if QES1_75W=0 & QES1_75V=0 & QES1_75S=0 & QES1_75Q=0
                 & QES1_75K=0 & QES1_75J=0 then PAYRATE1=-4;
end;
else if QES1_71A=4 then do;
  if QES1_76L>-4 then PAYRATE1=QES1_76L;
   else if QES1_76L>-4 & QES1_76L<0 then PAYRATE1=QES1_76L;
    else if QES1_76K>-4 then PAYRATE1=QES1_76K;
     else if QES1_76K>-4 & QES1_76K<0 then PAYRATE1=QES1_76K;
      else if QES1_76H>-4 then PAYRATE1=QES1_76H;
       else if QES1_76H>-4 & QES1_76H<0 then PAYRATE1=QES1_76H;
        else if QES1_76F>-4 then PAYRATE1=QES1_76F;
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        else if QES1_76F>-4 & QES1_76F<0 then PAYRATE1=QES1_76F;
         else if QES1_75Z>-4 then PAYRATE1=QES1_75Z;
          else if QES1_75Z>-4 & QES1_75Z<0 then PAYRATE1=QES1_75Z;
           else if QES1_75Y>-4 then PAYRATE1=QES1_75Y;
            else if QES1_75Y>-4 & QES1_75Y<0 then PAYRATE1=QES1_75Y;
             else if QES1_76L=0 & QES1_76K=0 & QES1_76H=0 & QES1_76F=0
                & QES1_75Z=0 & QES1_75Y=0 then PAYRATE1=-4;
end;

/* employer #2 */
/* start date */
QES2_8MC=-4; QES2_8DC=-4; QES2_8YC=-4;
if QES2_8_A>-4 then QES2_8MC=QES2_8_A;       else if QES2_8A_A>=-4 then QES2_8MC=QES2_8A_A;
                                              else if WT94=0 then QES2_8MC=-5;
if QES2_8_B>-4 then QES2_8DC=QES2_8_B;       else if QES2_8A_B>=-4 then QES2_8DC=QES2_8A_B;
                                              else if WT94=0 then QES2_8DC=-5;
if QES2_8_C>-4 then QES2_8YC=QES2_8_C;       else if QES2_8A_C>=-4 then QES2_8YC=QES2_8A_C;
                                              else if WT94=0 then QES2_8YC=-5;
/* wjg #1 reason */
QES2_33_1C=-4;
if QES2_34_1>-4 then QES2_33_1C=QES2_34_1;   else if QES2_33_1>=-4 then QES2_33_1C=QES2_33_1;
                                              else if WT94=0 then QES2_33_1C=-5;
/* wjg #2 reason */
QES2_33_2C=-4;
if QES2_34_2>-4 then QES2_33_2C=QES2_34_2;   else if QES2_33_2>=-4 then QES2_33_2C=QES2_33_2;
                                              else if WT94=0 then QES2_33_2C=-5;
/* wjg #3 reason */
QES2_33_3C=-4;
if QES2_34_3>-4 then QES2_33_3C=QES2_34_3;   else if QES2_33_3>=-4 then QES2_33_3C=QES2_33_3;
                                              else if WT94=0 then QES2_33_3C=-5;
/* wjg #4 reason */
QES2_33_4C=-4;
if QES2_34_4>-4 then QES2_33_4C=QES2_34_4;   else if QES2_33_4>=-4 then QES2_33_4C=QES2_33_4;
                                              else if WT94=0 then QES2_33_4C=-5;
/* payrate */
PAYRATE2=-4;
if QES2_71A=1 then do;
  if QES2_73J>0 then PAYRATE2=QES2_73J;
   else if QES2_73J>-4 & QES2_73J<0 then PAYRATE2=QES2_73J;
    else if QES2_71R>0 then PAYRATE2=QES2_71R;
     else if QES2_71R>-4 & QES2_71R<0 then PAYRATE2=QES2_71R;
      else if QES2_71P>0 then PAYRATE2=QES2_71P;
       else if QES2_71P>-4 & QES2_71P<0 then PAYRATE2=QES2_71P;
        else if QES2_71J>0 then PAYRATE2=QES2_71J;
         else if QES2_71J>-4 & QES2_71J<0 then PAYRATE2=QES2_71J;
          else if QES2_71I>0 then PAYRATE2=QES2_71I;
           else if QES2_71I>-4 & QES2_71I<0 then PAYRATE2=QES2_71I;
            else if QES2_73J=0 & QES2_71R=0 & QES2_71P=0 & QES2_71J=0
               & QES2_71I=0 then PAYRATE2=-4;
end;
else if QES2_71A=2 | QES2_71A=3 | QES2_71A=7 then do;
  if QES2_74R>0 then PAYRATE2=QES2_74R;
   else if QES2_74R>-4 & QES2_74R<0 then PAYRATE2=QES2_74R;
    else if QES2_74Q>0 then PAYRATE2=QES2_74Q;
     else if QES2_74Q>-4 & QES2_74Q<0 then PAYRATE2=QES2_74Q;
      else if QES2_74M>0 then PAYRATE2=QES2_74M;
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    else if QES2_74M>-4 & QES2_74M<0 then PAYRATE2=QES2_74M;
     else if QES2_74K>0 then PAYRATE2=QES2_74K;
      else if QES2_74K>-4 & QES2_74K<0 then PAYRATE2=QES2_74K;
       else if QES2_74E>0 then PAYRATE2=QES2_74E;
        else if QES2_74E>-4 & QES2_74E<0 then PAYRATE2=QES2_74E;
         else if QES2_74D>0 then PAYRATE2=QES2_74D;
          else if QES2_74D>-4 & QES2_74D<0 then PAYRATE2=QES2_74D;
           else if QES2_74R=0 & QES2_74Q=0 & QES2_74M=0 & QES2_74K=0
              & QES2_74E=0 & QES2_74D=0 then PAYRATE2=-4;
end;
else if QES2_71A=5 | QES2_71A=8 then do;
  if QES2_75H>0 then PAYRATE2=QES2_75H;
   else if QES2_75H>-4 & QES2_75H<0 then PAYRATE2=QES2_75H;
    else if QES2_75G>0 then PAYRATE2=QES2_75G;
     else if QES2_75G>-4 & QES2_75G<0 then PAYRATE2=QES2_75G;
      else if QES2_75D>0 then PAYRATE2=QES2_75D;
       else if QES2_75D>-4 & QES2_75D<0 then PAYRATE2=QES2_75D;
        else if QES2_75B>0 then PAYRATE2=QES2_75B;
         else if QES2_75B>-4 & QES2_75B<0 then PAYRATE2=QES2_75B;
          else if QES2_74V>0 then PAYRATE2=QES2_74V;
           else if QES2_74V>-4 & QES2_74V<0 then PAYRATE2=QES2_74V;
            else if QES2_74U>0 then PAYRATE2=QES2_74U;
             else if QES2_74U>-4 & QES2_74U<0 then PAYRATE2=QES2_74U;
              else if QES2_75H=0 & QES2_75G=0 & QES2_75D=0 & QES2_75B=0
                 & QES2_74V=0 & QES2_74U=0 then PAYRATE2=-4;
end;
else if QES2_71A=6 then do;
  if QES2_75W>-4 then PAYRATE2=QES2_75W;
   else if QES2_75W>-4 & QES2_75W<0 then PAYRATE2=QES2_75W;
    else if QES2_75V>-4 then PAYRATE2=QES2_75V;
     else if QES2_75V>-4 & QES2_75V<0 then PAYRATE2=QES2_75V;
      else if QES2_75S>-4 then PAYRATE2=QES2_75S;
       else if QES2_75S>-4 & QES2_75S<0 then PAYRATE2=QES2_75S;
        else if QES2_75Q>-4 then PAYRATE2=QES2_75Q;
         else if QES2_75Q>-4 & QES2_75Q<0 then PAYRATE2=QES2_75Q;
          else if QES2_75K>-4 then PAYRATE2=QES2_75K;
           else if QES2_75K>-4 & QES2_75K<0 then PAYRATE2=QES2_75K;
            else if QES2_75J>-4 then PAYRATE2=QES2_75J;
             else if QES2_75J>-4 & QES2_75J<0 then PAYRATE2=QES2_75J;
              else if QES2_75W=0 & QES2_75V=0 & QES2_75S=0 & QES2_75Q=0
                 & QES2_75K=0 & QES2_75J=0 then PAYRATE2=-4;
end;
else if QES2_71A=4 then do;
  if QES2_76L>-4 then PAYRATE2=QES2_76L;
   else if QES2_76L>-4 & QES2_76L<0 then PAYRATE2=QES2_76L;
    else if QES2_76K>-4 then PAYRATE2=QES2_76K;
     else if QES2_76K>-4 & QES2_76K<0 then PAYRATE2=QES2_76K;
      else if QES2_76H>-4 then PAYRATE2=QES2_76H;
       else if QES2_76H>-4 & QES2_76H<0 then PAYRATE2=QES2_76H;
        else if QES2_76F>-4 then PAYRATE2=QES2_76F;
         else if QES2_76F>-4 & QES2_76F<0 then PAYRATE2=QES2_76F;
          else if QES2_75Z>-4 then PAYRATE2=QES2_75Z;
           else if QES2_75Z>-4 & QES2_75Z<0 then PAYRATE2=QES2_75Z;
            else if QES2_75Y>-4 then PAYRATE2=QES2_75Y;
             else if QES2_75Y>-4 & QES2_75Y<0 then PAYRATE2=QES2_75Y;
              else if QES2_76L=0 & QES2_76K=0 & QES2_76H=0 & QES2_76F=0
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                      & QES2_75Z=0 & QES2_75Y=0 then PAYRATE2=-4;
end;


/* employer #3 */
/* start date */
QES3_8MC=-4; QES3_8DC=-4; QES3_8YC=-4;
if QES3_8_A>-4 then QES3_8MC=QES3_8_A;        else if QES3_8A_A>=-4 then QES3_8MC=QES3_8A_A;
                                              else if WT94=0 then QES3_8MC=-5;

if QES3_8_B>-4 then QES3_8DC=QES3_8_B;        else if QES3_8A_B>=-4 then QES3_8DC=QES3_8A_B;
                                              else if WT94=0 then QES3_8DC=-5;

if QES3_8_C>-4 then QES3_8YC=QES3_8_C;        else if QES3_8A_C>=-4 then QES3_8YC=QES3_8A_C;
                                              else if WT94=0 then QES3_8YC=-5;

/* wjg #1 reason */
QES3_33_1C=-4;
if QES3_34_1>-4 then QES3_33_1C=QES3_34_1;    else if QES3_33_1>=-4 then QES3_33_1C=QES3_33_1;
                                              else if WT94=0 then QES3_33_1C=-5;

/* wjg #2 reason */
QES3_33_2C=-4;
if QES3_34_2>-4 then QES3_33_2C=QES3_34_2;    else if QES3_33_2>=-4 then QES3_33_2C=QES3_33_2;
                                              else if WT94=0 then QES3_33_2C=-5;

/* wjg #3 reason */
QES3_33_3C=-4;
if QES3_34_3>-4 then QES3_33_3C=QES3_34_3;    else if QES3_33_3>=-4 then QES3_33_3C=QES3_33_3;
                                              else if WT94=0 then QES3_33_3C=-5;

/* wjg #4 reason */
QES3_33_4C=-4;
if QES3_34_4>-4 then QES3_33_4C=QES3_34_4;    else if QES3_33_4>=-4 then QES3_33_4C=QES3_33_4;
                                              else if WT94=0 then QES3_33_4C=-5;
/* payrate */
PAYRATE3=-4;
if QES3_71A=1 then do;
  if QES3_73J>0 then PAYRATE3=QES3_73J;
   else if QES3_73J>-4 & QES3_73J<0 then PAYRATE3=QES3_73J;
    else if QES3_71R>0 then PAYRATE3=QES3_71R;
     else if QES3_71R>-4 & QES3_71R<0 then PAYRATE3=QES3_71R;
      else if QES3_71P>0 then PAYRATE3=QES3_71P;
       else if QES3_71P>-4 & QES3_71P<0 then PAYRATE3=QES3_71P;
        else if QES3_71J>0 then PAYRATE3=QES3_71J;
         else if QES3_71J>-4 & QES3_71J<0 then PAYRATE3=QES3_71J;
          else if QES3_71I>0 then PAYRATE3=QES3_71I;
           else if QES3_71I>-4 & QES3_71I<0 then PAYRATE3=QES3_71I;
            else if QES3_73J=0 & QES3_71R=0 & QES3_71P=0 & QES3_71J=0
               & QES3_71I=0 then PAYRATE3=-4;
end;
else if QES3_71A=2 | QES3_71A=3 | QES3_71A=7 then do;
  if QES3_74R>0 then PAYRATE3=QES3_74R;
   else if QES3_74R>-4 & QES3_74R<0 then PAYRATE3=QES3_74R;
    else if QES3_74Q>0 then PAYRATE3=QES3_74Q;
     else if QES3_74Q>-4 & QES3_74Q<0 then PAYRATE3=QES3_74Q;
      else if QES3_74M>0 then PAYRATE3=QES3_74M;
       else if QES3_74M>-4 & QES3_74M<0 then PAYRATE3=QES3_74M;
        else if QES3_74K>0 then PAYRATE3=QES3_74K;
         else if QES3_74K>-4 & QES3_74K<0 then PAYRATE3=QES3_74K;
          else if QES3_74E>0 then PAYRATE3=QES3_74E;
           else if QES3_74E>-4 & QES3_74E<0 then PAYRATE3=QES3_74E;
            else if QES3_74D>0 then PAYRATE3=QES3_74D;
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         else if QES3_74D>-4 & QES3_74D<0 then PAYRATE3=QES3_74D;
           else if QES3_74R=0 & QES3_74Q=0 & QES3_74M=0 & QES3_74K=0
             & QES3_74E=0 & QES3_74D=0 then PAYRATE3=-4;
end;
else if QES3_71A=5 | QES3_71A=8 then do;
  if QES3_75H>0 then PAYRATE3=QES3_75H;
   else if QES3_75H>-4 & QES3_75H<0 then PAYRATE3=QES3_75H;
    else if QES3_75G>0 then PAYRATE3=QES3_75G;
     else if QES3_75G>-4 & QES3_75G<0 then PAYRATE3=QES3_75G;
      else if QES3_75D>0 then PAYRATE3=QES3_75D;
       else if QES3_75D>-4 & QES3_75D<0 then PAYRATE3=QES3_75D;
        else if QES3_75B>0 then PAYRATE3=QES3_75B;
         else if QES3_75B>-4 & QES3_75B<0 then PAYRATE3=QES3_75B;
          else if QES3_74V>0 then PAYRATE3=QES3_74V;
           else if QES3_74V>-4 & QES3_74V<0 then PAYRATE3=QES3_74V;
            else if QES3_74U>0 then PAYRATE3=QES3_74U;
             else if QES3_74U>-4 & QES3_74U<0 then PAYRATE3=QES3_74U;
              else if QES3_75H=0 & QES3_75G=0 & QES3_75D=0 & QES3_75B=0
                & QES3_74V=0 & QES3_74U=0 then PAYRATE3=-4;
end;
else if QES3_71A=6 then do;
  if QES3_75W>-4 then PAYRATE3=QES3_75W;
   else if QES3_75W>-4 & QES3_75W<0 then PAYRATE3=QES3_75W;
    else if QES3_75V>-4 then PAYRATE3=QES3_75V;
     else if QES3_75V>-4 & QES3_75V<0 then PAYRATE3=QES3_75V;
      else if QES3_75S>-4 then PAYRATE3=QES3_75S;
       else if QES3_75S>-4 & QES3_75S<0 then PAYRATE3=QES3_75S;
        else if QES3_75Q>-4 then PAYRATE3=QES3_75Q;
         else if QES3_75Q>-4 & QES3_75Q<0 then PAYRATE3=QES3_75Q;
          else if QES3_75K>-4 then PAYRATE3=QES3_75K;
           else if QES3_75K>-4 & QES3_75K<0 then PAYRATE3=QES3_75K;
            else if QES3_75J>-4 then PAYRATE3=QES3_75J;
             else if QES3_75J>-4 & QES3_75J<0 then PAYRATE3=QES3_75J;
              else if QES3_75W=0 & QES3_75V=0 & QES3_75S=0 & QES3_75Q=0
                & QES3_75K=0 & QES3_75J=0 then PAYRATE3=-4;
end;
else if QES3_71A=4 then do;
  if QES3_76L>-4 then PAYRATE3=QES3_76L;
   else if QES3_76L>-4 & QES3_76L<0 then PAYRATE3=QES3_76L;
    else if QES3_76K>-4 then PAYRATE3=QES3_76K;
     else if QES3_76K>-4 & QES3_76K<0 then PAYRATE3=QES3_76K;
      else if QES3_76H>-4 then PAYRATE3=QES3_76H;
       else if QES3_76H>-4 & QES3_76H<0 then PAYRATE3=QES3_76H;
        else if QES3_76F>-4 then PAYRATE3=QES3_76F;
         else if QES3_76F>-4 & QES3_76F<0 then PAYRATE3=QES3_76F;
          else if QES3_75Z>-4 then PAYRATE3=QES3_75Z;
           else if QES3_75Z>-4 & QES3_75Z<0 then PAYRATE3=QES3_75Z;
            else if QES3_75Y>-4 then PAYRATE3=QES3_75Y;
             else if QES3_75Y>-4 & QES3_75Y<0 then PAYRATE3=QES3_75Y;
              else if QES3_76L=0 & QES3_76K=0 & QES3_76H=0 & QES3_76F=0
                & QES3_75Z=0 & QES3_75Y=0 then PAYRATE3=-4;
end;

/* employer #4 */
/* start date */
QES4_8MC=-4; QES4_8DC=-4; QES4_8YC=-4;
```

```
if QES4_8_A>-4 then QES4_8MC=QES4_8_A;          else if QES4_8A_A>=-4 then QES4_8MC=QES4_8A_A;
                                                else if WT94=0 then QES4_8MC=-5;

if QES4_8_B>-4 then QES4_8DC=QES4_8_B;          else if QES4_8A_B>=-4 then QES4_8DC=QES4_8A_B;
                                                else if WT94=0 then QES4_8DC=-5;

if QES4_8_C>-4 then QES4_8YC=QES4_8_C;          else if QES4_8A_C>=-4 then QES4_8YC=QES4_8A_C;
                                                else if WT94=0 then QES4_8YC=-5;

/* wjg #1 reason */
QES4_33_1C=-4;
if QES4_34_1>-4 then QES4_33_1C=QES4_34_1;      else if QES4_33_1>=-4 then QES4_33_1C=QES4_33_1;
                                                else if WT94=0 then QES4_33_1C=-5;

/* wjg #2 reason */
QES4_33_2C=-4;
if QES4_34_2>-4 then QES4_33_2C=QES4_34_2;      else if QES4_33_2>=-4 then QES4_33_2C=QES4_33_2;
                                                else if WT94=0 then QES4_33_2C=-5;

/* wjg #3 reason */
QES4_33_3C=-4;
if QES4_34_3>-4 then QES4_33_3C=QES4_34_3;      else if QES4_33_3>=-4 then QES4_33_3C=QES4_33_3;
                                                else if WT94=0 then QES4_33_3C=-5;

/* wjg #4 reason */
QES4_33_4C=-4;
if QES4_34_4>-4 then QES4_33_4C=QES4_34_4;      else if QES4_33_4>=-4 then QES4_33_4C=QES4_33_4;
                                                else if WT94=0 then QES4_33_4C=-5;

/* payrate */
PAYRATE4=-4;
if QES4_71A=1 then do;
  if QES4_73J>0 then PAYRATE4=QES4_73J;
   else if QES4_73J>-4 & QES4_73J<0 then PAYRATE4=QES4_73J;
    else if QES4_71R>0 then PAYRATE4=QES4_71R;
     else if QES4_71R>-4 & QES4_71R<0 then PAYRATE4=QES4_71R;
      else if QES4_71P>0 then PAYRATE4=QES4_71P;
       else if QES4_71P>-4 & QES4_71P<0 then PAYRATE4=QES4_71P;
        else if QES4_71J>0 then PAYRATE4=QES4_71J;
         else if QES4_71J>-4 & QES4_71J<0 then PAYRATE4=QES4_71J;
          else if QES4_71I>0 then PAYRATE4=QES4_71I;
           else if QES4_71I>-4 & QES4_71I<0 then PAYRATE4=QES4_71I;
            else if QES4_73J=0 & QES4_71R=0 & QES4_71P=0 & QES4_71J=0
               & QES4_71I=0 then PAYRATE4=-4;
end;
else if QES4_71A=2 | QES4_71A=3 | QES4_71A=7 then do;
  if QES4_74R>0 then PAYRATE4=QES4_74R;
   else if QES4_74R>-4 & QES4_74R<0 then PAYRATE4=QES4_74R;
    else if QES4_74Q>0 then PAYRATE4=QES4_74Q;
     else if QES4_74Q>-4 & QES4_74Q<0 then PAYRATE4=QES4_74Q;
      else if QES4_74M>0 then PAYRATE4=QES4_74M;
       else if QES4_74M>-4 & QES4_74M<0 then PAYRATE4=QES4_74M;
        else if QES4_74K>0 then PAYRATE4=QES4_74K;
         else if QES4_74K>-4 & QES4_74K<0 then PAYRATE4=QES4_74K;
          else if QES4_74E>0 then PAYRATE4=QES4_74E;
           else if QES4_74E>-4 & QES4_74E<0 then PAYRATE4=QES4_74E;
            else if QES4_74D>0 then PAYRATE4=QES4_74D;
             else if QES4_74D>-4 & QES4_74D<0 then PAYRATE4=QES4_74D;
              else if QES4_74R=0 & QES4_74Q=0 & QES4_74M=0 & QES4_74K=0
                 & QES4_74E=0 & QES4_74D=0 then PAYRATE4=-4;
end;
else if QES4_71A=5 | QES4_71A=8 then do;
  if QES4_75H>0 then PAYRATE4=QES4_75H;
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    else if QES4_75H>-4 & QES4_75H<0 then PAYRATE4=QES4_75H;
     else if QES4_75G>0 then PAYRATE4=QES4_75G;
      else if QES4_75G>-4 & QES4_75G<0 then PAYRATE4=QES4_75G;
       else if QES4_75D>0 then PAYRATE4=QES4_75D;
        else if QES4_75D>-4 & QES4_75D<0 then PAYRATE4=QES4_75D;
         else if QES4_75B>0 then PAYRATE4=QES4_75B;
          else if QES4_75B>-4 & QES4_75B<0 then PAYRATE4=QES4_75B;
           else if QES4_74V>0 then PAYRATE4=QES4_74V;
            else if QES4_74V>-4 & QES4_74V<0 then PAYRATE4=QES4_74V;
             else if QES4_74U>0 then PAYRATE4=QES4_74U;
              else if QES4_74U>-4 & QES4_74U<0 then PAYRATE4=QES4_74U;
               else if QES4_75H=0 & QES4_75G=0 & QES4_75D=0 & QES4_75B=0
                  & QES4_74V=0 & QES4_74U=0 then PAYRATE4=-4;
end;
else if QES4_71A=6 then do;
  if QES4_75W>-4 then PAYRATE4=QES4_75W;
   else if QES4_75W>-4 & QES4_75W<0 then PAYRATE4=QES4_75W;
    else if QES4_75V>-4 then PAYRATE4=QES4_75V;
     else if QES4_75V>-4 & QES4_75V<0 then PAYRATE4=QES4_75V;
      else if QES4_75S>-4 then PAYRATE4=QES4_75S;
       else if QES4_75S>-4 & QES4_75S<0 then PAYRATE4=QES4_75S;
        else if QES4_75Q>-4 then PAYRATE4=QES4_75Q;
         else if QES4_75Q>-4 & QES4_75Q<0 then PAYRATE4=QES4_75Q;
          else if QES4_75K>-4 then PAYRATE4=QES4_75K;
           else if QES4_75K>-4 & QES4_75K<0 then PAYRATE4=QES4_75K;
            else if QES4_75J>-4 then PAYRATE4=QES4_75J;
             else if QES4_75J>-4 & QES4_75J<0 then PAYRATE4=QES4_75J;
              else if QES4_75W=0 & QES4_75V=0 & QES4_75S=0 & QES4_75Q=0
                 & QES4_75K=0 & QES4_75J=0 then PAYRATE4=-4;
end;
else if QES4_71A=4 then do;
  if QES4_76L>-4 then PAYRATE4=QES4_76L;
   else if QES4_76L>-4 & QES4_76L<0 then PAYRATE4=QES4_76L;
    else if QES4_76K>-4 then PAYRATE4=QES4_76K;
     else if QES4_76K>-4 & QES4_76K<0 then PAYRATE4=QES4_76K;
      else if QES4_76H>-4 then PAYRATE4=QES4_76H;
       else if QES4_76H>-4 & QES4_76H<0 then PAYRATE4=QES4_76H;
        else if QES4_76F>-4 then PAYRATE4=QES4_76F;
         else if QES4_76F>-4 & QES4_76F<0 then PAYRATE4=QES4_76F;
          else if QES4_75Z>-4 then PAYRATE4=QES4_75Z;
           else if QES4_75Z>-4 & QES4_75Z<0 then PAYRATE4=QES4_75Z;
            else if QES4_75Y>-4 then PAYRATE4=QES4_75Y;
             else if QES4_75Y>-4 & QES4_75Y<0 then PAYRATE4=QES4_75Y;
              else if QES4_76L=0 & QES4_76K=0 & QES4_76H=0 & QES4_76F=0
                 & QES4_75Z=0 & QES4_75Y=0 then PAYRATE4=-4;
end;

/* employer #5 */
/* start date */
QES5_8MC=-4; QES5_8DC=-4; QES5_8YC=-4;
if QES5_8_A>-4 then QES5_8MC=QES5_8_A;        else if QES5_8A_A>=-4 then QES5_8MC=QES5_8A_A;
                                              else if WT94=0 then QES5_8MC=-5;

if QES5_8_B>-4 then QES5_8DC=QES5_8_B;        else if QES5_8A_B>=-4 then QES5_8DC=QES5_8A_B;
                                              else if WT94=0 then QES5_8DC=-5;

if QES5_8_C>-4 then QES5_8YC=QES5_8_C;        else if QES5_8A_C>=-4 then QES5_8YC=QES5_8A_C;
                                              else if WT94=0 then QES5_8YC=-5;
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/* wjg #1 reason */
QES5_33_1C=-4;
if QES5_34_1>-4 then QES5_33_1C=QES5_34_1;    else if QES5_33_1>=-4 then QES5_33_1C=QES5_33_1;
                                               else if WT94=0 then QES5_33_1C=-5;

/* wjg #2 reason */
QES5_33_2C=-4;
if QES5_34_2>-4 then QES5_33_2C=QES5_34_2;    else if QES5_33_2>=-4 then QES5_33_2C=QES5_33_2;
                                               else if WT94=0 then QES5_33_2C=-5;

/* wjg #3 reason */
QES5_33_3C=-4;
if QES5_34_3>-4 then QES5_33_3C=QES5_34_3;    else if QES5_33_3>=-4 then QES5_33_3C=QES5_33_3;
                                               else if WT94=0 then QES5_33_3C=-5;

/* wjg #4 reason */
QES5_33_4C=-4;
if QES5_34_4>-4 then QES5_33_4C=QES5_34_4;    else if QES5_33_4>=-4 then QES5_33_4C=QES5_33_4;
                                               else if WT94=0 then QES5_33_4C=-5;

/* payrate */
PAYRATE5=-4;
if QES5_71A=1 then do;
 if QES5_73J>0 then PAYRATE5=QES5_73J;
  else if QES5_73J>-4 & QES5_73J<0 then PAYRATE5=QES5_73J;
   else if QES5_71R>0 then PAYRATE5=QES5_71R;
    else if QES5_71R>-4 & QES5_71R<0 then PAYRATE5=QES5_71R;
     else if QES5_71P>0 then PAYRATE5=QES5_71P;
      else if QES5_71P>-4 & QES5_71P<0 then PAYRATE5=QES5_71P;
       else if QES5_71J>0 then PAYRATE5=QES5_71J;
        else if QES5_71J>-4 & QES5_71J<0 then PAYRATE5=QES5_71J;
         else if QES5_71I>0 then PAYRATE5=QES5_71I;
          else if QES5_71I>-4 & QES5_71I<0 then PAYRATE5=QES5_71I;
           else if QES5_73J=0 & QES5_71R=0 & QES5_71P=0 & QES5_71J=0
              & QES5_71I=0 then PAYRATE5=-4;
end;
else if QES5_71A=2 | QES5_71A=3 | QES5_71A=7 then do;
 if QES5_74R>0 then PAYRATE5=QES5_74R;
  else if QES5_74R>-4 & QES5_74R<0 then PAYRATE5=QES5_74R;
   else if QES5_74Q>0 then PAYRATE5=QES5_74Q;
    else if QES5_74Q>-4 & QES5_74Q<0 then PAYRATE5=QES5_74Q;
     else if QES5_74M>0 then PAYRATE5=QES5_74M;
      else if QES5_74M>-4 & QES5_74M<0 then PAYRATE5=QES5_74M;
       else if QES5_74K>0 then PAYRATE5=QES5_74K;
        else if QES5_74K>-4 & QES5_74K<0 then PAYRATE5=QES5_74K;
         else if QES5_74E>0 then PAYRATE5=QES5_74E;
          else if QES5_74E>-4 & QES5_74E<0 then PAYRATE5=QES5_74E;
           else if QES5_74D>0 then PAYRATE5=QES5_74D;
            else if QES5_74D>-4 & QES5_74D<0 then PAYRATE5=QES5_74D;
             else if QES5_74R=0 & QES5_74Q=0 & QES5_74M=0 & QES5_74K=0
                & QES5_74E=0 & QES5_74D=0 then PAYRATE5=-4;
end;
else if QES5_71A=5 | QES5_71A=8 then do;
 if QES5_75H>0 then PAYRATE5=QES5_75H;
  else if QES5_75H>-4 & QES5_75H<0 then PAYRATE5=QES5_75H;
   else if QES5_75G>0 then PAYRATE5=QES5_75G;
    else if QES5_75G>-4 & QES5_75G<0 then PAYRATE5=QES5_75G;
     else if QES5_75D>0 then PAYRATE5=QES5_75D;
      else if QES5_75D>-4 & QES5_75D<0 then PAYRATE5=QES5_75D;
       else if QES5_75B>0 then PAYRATE5=QES5_75B;
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        else if QES5_75B>-4 & QES5_75B<0 then PAYRATE5=QES5_75B;
         else if QES5_74V>0 then PAYRATE5=QES5_74V;
          else if QES5_74V>-4 & QES5_74V<0 then PAYRATE5=QES5_74V;
           else if QES5_74U>0 then PAYRATE5=QES5_74U;
            else if QES5_74U>-4 & QES5_74U<0 then PAYRATE5=QES5_74U;
             else if QES5_75H=0 & QES5_75G=0 & QES5_75D=0 & QES5_75B=0
                & QES5_74V=0 & QES5_74U=0 then PAYRATE5=-4;
end;
else if QES5_71A=6 then do;
  if QES5_75W>-4 then PAYRATE5=QES5_75W;
   else if QES5_75W>-4 & QES5_75W<0 then PAYRATE5=QES5_75W;
    else if QES5_75V>-4 then PAYRATE5=QES5_75V;
     else if QES5_75V>-4 & QES5_75V<0 then PAYRATE5=QES5_75V;
      else if QES5_75S>-4 then PAYRATE5=QES5_75S;
       else if QES5_75S>-4 & QES5_75S<0 then PAYRATE5=QES5_75S;
        else if QES5_75Q>-4 then PAYRATE5=QES5_75Q;
         else if QES5_75Q>-4 & QES5_75Q<0 then PAYRATE5=QES5_75Q;
          else if QES5_75K>-4 then PAYRATE5=QES5_75K;
           else if QES5_75K>-4 & QES5_75K<0 then PAYRATE5=QES5_75K;
            else if QES5_75J>-4 then PAYRATE5=QES5_75J;
             else if QES5_75J>-4 & QES5_75J<0 then PAYRATE5=QES5_75J;
              else if QES5_75W=0 & QES5_75V=0 & QES5_75S=0 & QES5_75Q=0
                & QES5_75K=0 & QES5_75J=0 then PAYRATE5=-4;
end;
else if QES5_71A=4 then do;
  if QES5_76L>-4 then PAYRATE5=QES5_76L;
   else if QES5_76L>-4 & QES5_76L<0 then PAYRATE5=QES5_76L;
    else if QES5_76K>-4 then PAYRATE5=QES5_76K;
     else if QES5_76K>-4 & QES5_76K<0 then PAYRATE5=QES5_76K;
      else if QES5_76H>-4 then PAYRATE5=QES5_76H;
       else if QES5_76H>-4 & QES5_76H<0 then PAYRATE5=QES5_76H;
        else if QES5_76F>-4 then PAYRATE5=QES5_76F;
         else if QES5_76F>-4 & QES5_76F<0 then PAYRATE5=QES5_76F;
          else if QES5_75Z>-4 then PAYRATE5=QES5_75Z;
           else if QES5_75Z>-4 & QES5_75Z<0 then PAYRATE5=QES5_75Z;
            else if QES5_75Y>-4 then PAYRATE5=QES5_75Y;
             else if QES5_75Y>-4 & QES5_75Y<0 then PAYRATE5=QES5_75Y;
              else if QES5_76L=0 & QES5_76K=0 & QES5_76H=0 & QES5_76F=0
                & QES5_75Z=0 & QES5_75Y=0 then PAYRATE5=-4;
end;

/* employer #6 */
/* start date */
QES6_8MC=-4; QES6_8DC=-4; QES6_8YC=-4;
if QES6_8_A>-4 then QES6_8MC=QES6_8_A;        else if QES6_8A_A>=-4 then QES6_8MC=QES6_8A_A;
                                              else if WT94=0 then QES6_8MC=-5;

if QES6_8_B>-4 then QES6_8DC=QES6_8_B;        else if QES6_8A_B>=-4 then QES6_8DC=QES6_8A_B;
                                              else if WT94=0 then QES6_8DC=-5;

if QES6_8_C>-4 then QES6_8YC=QES6_8_C;        else if QES6_8A_C>=-4 then QES6_8YC=QES6_8A_C;
                                              else if WT94=0 then QES6_8YC=-5;

/* wjg #1 reason */
QES6_33_1C=-4;
if QES6_34_1>-4 then QES6_33_1C=QES6_34_1;    else if QES6_33_1>=-4 then QES6_33_1C=QES6_33_1;
                                              else if WT94=0 then QES6_33_1C=-5;

/* wjg #2 reason */
QES6_33_2C=-4;
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if QES6_34_2>-4 then QES6_33_2C=QES6_34_2;      else if QES6_33_2>=-4 then QES6_33_2C=QES6_33_2;
                                                 else if WT94=0 then QES6_33_2C=-5;

/* wjg #3 reason */
QES6_33_3C=-4;
if QES6_34_3>-4 then QES6_33_3C=QES6_34_3;      else if QES6_33_3>=-4 then QES6_33_3C=QES6_33_3;
                                                 else if WT94=0 then QES6_33_3C=-5;

/* wjg #4 reason */
QES6_33_4C=-4;
if QES6_34_4>-4 then QES6_33_4C=QES6_34_4;      else if QES6_33_4>=-4 then QES6_33_4C=QES6_33_4;
                                                 else if WT94=0 then QES6_33_4C=-5;

/* payrate */
PAYRATE6=-4;
if QES6_71A=1 then do;
  if QES6_73J>0 then PAYRATE6=QES6_73J;
   else if QES6_73J>-4 & QES6_73J<0 then PAYRATE6=QES6_73J;
    else if QES6_71R>0 then PAYRATE6=QES6_71R;
     else if QES6_71R>-4 & QES6_71R<0 then PAYRATE6=QES6_71R;
      else if QES6_71P>0 then PAYRATE6=QES6_71P;
       else if QES6_71P>-4 & QES6_71P<0 then PAYRATE6=QES6_71P;
        else if QES6_71J>0 then PAYRATE6=QES6_71J;
         else if QES6_71J>-4 & QES6_71J<0 then PAYRATE6=QES6_71J;
          else if QES6_71I>0 then PAYRATE6=QES6_71I;
           else if QES6_71I>-4 & QES6_71I<0 then PAYRATE6=QES6_71I;
            else if QES6_73J=0 & QES6_71R=0 & QES6_71P=0 & QES6_71J=0
               & QES6_71I=0 then PAYRATE6=-4;
end;
else if QES6_71A=2 | QES6_71A=3 | QES6_71A=7 then do;
  if QES6_74R>0 then PAYRATE6=QES6_74R;
   else if QES6_74R>-4 & QES6_74R<0 then PAYRATE6=QES6_74R;
    else if QES6_74Q>0 then PAYRATE6=QES6_74Q;
     else if QES6_74Q>-4 & QES6_74Q<0 then PAYRATE6=QES6_74Q;
      else if QES6_74M>0 then PAYRATE6=QES6_74M;
       else if QES6_74M>-4 & QES6_74M<0 then PAYRATE6=QES6_74M;
        else if QES6_74K>0 then PAYRATE6=QES6_74K;
         else if QES6_74K>-4 & QES6_74K<0 then PAYRATE6=QES6_74K;
          else if QES6_74E>0 then PAYRATE6=QES6_74E;
           else if QES6_74E>-4 & QES6_74E<0 then PAYRATE6=QES6_74E;
            else if QES6_74D>0 then PAYRATE6=QES6_74D;
             else if QES6_74D>-4 & QES6_74D<0 then PAYRATE6=QES6_74D;
              else if QES6_74R=0 & QES6_74Q=0 & QES6_74M=0 & QES6_74K=0
                 & QES6_74E=0 & QES6_74D=0 then PAYRATE6=-4;
end;
else if QES6_71A=5 | QES6_71A=8 then do;
  if QES6_75H>0 then PAYRATE6=QES6_75H;
   else if QES6_75H>-4 & QES6_75H<0 then PAYRATE6=QES6_75H;
    else if QES6_75G>0 then PAYRATE6=QES6_75G;
     else if QES6_75G>-4 & QES6_75G<0 then PAYRATE6=QES6_75G;
      else if QES6_75D>0 then PAYRATE6=QES6_75D;
       else if QES6_75D>-4 & QES6_75D<0 then PAYRATE6=QES6_75D;
        else if QES6_75B>0 then PAYRATE6=QES6_75B;
         else if QES6_75B>-4 & QES6_75B<0 then PAYRATE6=QES6_75B;
          else if QES6_74V>0 then PAYRATE6=QES6_74V;
           else if QES6_74V>-4 & QES6_74V<0 then PAYRATE6=QES6_74V;
            else if QES6_74U>0 then PAYRATE6=QES6_74U;
             else if QES6_74U>-4 & QES6_74U<0 then PAYRATE6=QES6_74U;
              else if QES6_75H=0 & QES6_75G=0 & QES6_75D=0 & QES6_75B=0
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                  & QES6_74V=0 & QES6_74U=0 then PAYRATE6=-4;
end;
else if QES6_71A=6 then do;
  if QES6_75W>-4 then PAYRATE6=QES6_75W;
   else if QES6_75W>-4 & QES6_75W<0 then PAYRATE6=QES6_75W;
    else if QES6_75V>-4 then PAYRATE6=QES6_75V;
     else if QES6_75V>-4 & QES6_75V<0 then PAYRATE6=QES6_75V;
      else if QES6_75S>-4 then PAYRATE6=QES6_75S;
       else if QES6_75S>-4 & QES6_75S<0 then PAYRATE6=QES6_75S;
        else if QES6_75Q>-4 then PAYRATE6=QES6_75Q;
         else if QES6_75Q>-4 & QES6_75Q<0 then PAYRATE6=QES6_75Q;
          else if QES6_75K>-4 then PAYRATE6=QES6_75K;
           else if QES6_75K>-4 & QES6_75K<0 then PAYRATE6=QES6_75K;
            else if QES6_75J>-4 then PAYRATE6=QES6_75J;
             else if QES6_75J>-4 & QES6_75J<0 then PAYRATE6=QES6_75J;
              else if QES6_75W=0 & QES6_75V=0 & QES6_75S=0 & QES6_75Q=0
                 & QES6_75K=0 & QES6_75J=0 then PAYRATE6=-4;
end;
else if QES6_71A=4 then do;
  if QES6_76L>-4 then PAYRATE6=QES6_76L;
   else if QES6_76L>-4 & QES6_76L<0 then PAYRATE6=QES6_76L;
    else if QES6_76K>-4 then PAYRATE6=QES6_76K;
     else if QES6_76K>-4 & QES6_76K<0 then PAYRATE6=QES6_76K;
      else if QES6_76H>-4 then PAYRATE6=QES6_76H;
       else if QES6_76H>-4 & QES6_76H<0 then PAYRATE6=QES6_76H;
        else if QES6_76F>-4 then PAYRATE6=QES6_76F;
         else if QES6_76F>-4 & QES6_76F<0 then PAYRATE6=QES6_76F;
          else if QES6_75Z>-4 then PAYRATE6=QES6_75Z;
           else if QES6_75Z>-4 & QES6_75Z<0 then PAYRATE6=QES6_75Z;
            else if QES6_75Y>-4 then PAYRATE6=QES6_75Y;
             else if QES6_75Y>-4 & QES6_75Y<0 then PAYRATE6=QES6_75Y;
              else if QES6_76L=0 & QES6_76K=0 & QES6_76H=0 & QES6_76F=0
                 & QES6_75Z=0 & QES6_75Y=0 then PAYRATE6=-4;
end;

/* employer #7 */
/* start date */
QES7_8MC=-4; QES7_8DC=-4; QES7_8YC=-4;
if QES7_8_A>-4 then QES7_8MC=QES7_8_A;        else if QES7_8A_A>=-4 then QES7_8MC=QES7_8A_A;
                                              else if WT94=0 then QES7_8MC=-5;
if QES7_8_B>-4 then QES7_8DC=QES7_8_B;        else if QES7_8A_B>=-4 then QES7_8DC=QES7_8A_B;
                                              else if WT94=0 then QES7_8DC=-5;
if QES7_8_C>-4 then QES7_8YC=QES7_8_C;        else if QES7_8A_C>=-4 then QES7_8YC=QES7_8A_C;
                                              else if WT94=0 then QES7_8YC=-5;

/* wjg #1 reason */
QES7_33_1C=-4;
if QES7_34_1>-4 then QES7_33_1C=QES7_34_1;    else if QES7_33_1>=-4 then QES7_33_1C=QES7_33_1;
                                              else if WT94=0 then QES7_33_1C=-5;
/* wjg #2 reason */
QES7_33_2C=-4;
if QES7_34_2>-4 then QES7_33_2C=QES7_34_2;    else if QES7_33_2>=-4 then QES7_33_2C=QES7_33_2;
                                              else if WT94=0 then QES7_33_2C=-5;
/* wjg #3 reason */
QES7_33_3C=-4;
if QES7_34_3>-4 then QES7_33_3C=QES7_34_3;    else if QES7_33_3>=-4 then QES7_33_3C=QES7_33_3;
                                              else if WT94=0 then QES7_33_3C=-5;
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/* wjg #4 reason */
QES7_33_4C=-4;
if QES7_34_4>-4 then QES7_33_4C=QES7_34_4;      else if QES7_33_4>=-4 then QES7_33_4C=QES7_33_4;
                                                     else if WT94=0 then QES7_33_4C=-5;

/* payrate */
PAYRATE7=-4;
if QES7_71A=1 then do;
  if QES7_73J>0 then PAYRATE7=QES7_73J;
   else if QES7_73J>-4 & QES7_73J<0 then PAYRATE7=QES7_73J;
    else if QES7_71R>0 then PAYRATE7=QES7_71R;
     else if QES7_71R>-4 & QES7_71R<0 then PAYRATE7=QES7_71R;
      else if QES7_71P>0 then PAYRATE7=QES7_71P;
       else if QES7_71P>-4 & QES7_71P<0 then PAYRATE7=QES7_71P;
        else if QES7_71J>0 then PAYRATE7=QES7_71J;
         else if QES7_71J>-4 & QES7_71J<0 then PAYRATE7=QES7_71J;
          else if QES7_71I>0 then PAYRATE7=QES7_71I;
           else if QES7_71I>-4 & QES7_71I<0 then PAYRATE7=QES7_71I;
            else if QES7_73J=0 & QES7_71R=0 & QES7_71P=0 & QES7_71J=0
               & QES7_71I=0 then PAYRATE7=-4;
end;
else if QES7_71A=2 | QES7_71A=3 | QES7_71A=7 then do;
  if QES7_74R>0 then PAYRATE7=QES7_74R;
   else if QES7_74R>-4 & QES7_74R<0 then PAYRATE7=QES7_74R;
    else if QES7_74Q>0 then PAYRATE7=QES7_74Q;
     else if QES7_74Q>-4 & QES7_74Q<0 then PAYRATE7=QES7_74Q;
      else if QES7_74M>0 then PAYRATE7=QES7_74M;
       else if QES7_74M>-4 & QES7_74M<0 then PAYRATE7=QES7_74M;
        else if QES7_74K>0 then PAYRATE7=QES7_74K;
         else if QES7_74K>-4 & QES7_74K<0 then PAYRATE7=QES7_74K;
          else if QES7_74E>0 then PAYRATE7=QES7_74E;
           else if QES7_74E>-4 & QES7_74E<0 then PAYRATE7=QES7_74E;
            else if QES7_74D>0 then PAYRATE7=QES7_74D;
             else if QES7_74D>-4 & QES7_74D<0 then PAYRATE7=QES7_74D;
              else if QES7_74R=0 & QES7_74Q=0 & QES7_74M=0 & QES7_74K=0
                 & QES7_74E=0 & QES7_74D=0 then PAYRATE7=-4;
end;
else if QES7_71A=5 | QES7_71A=8 then do;
  if QES7_75H>0 then PAYRATE7=QES7_75H;
   else if QES7_75H>-4 & QES7_75H<0 then PAYRATE7=QES7_75H;
    else if QES7_75G>0 then PAYRATE7=QES7_75G;
     else if QES7_75G>-4 & QES7_75G<0 then PAYRATE7=QES7_75G;
      else if QES7_75D>0 then PAYRATE7=QES7_75D;
       else if QES7_75D>-4 & QES7_75D<0 then PAYRATE7=QES7_75D;
        else if QES7_75B>0 then PAYRATE7=QES7_75B;
         else if QES7_75B>-4 & QES7_75B<0 then PAYRATE7=QES7_75B;
          else if QES7_74V>0 then PAYRATE7=QES7_74V;
           else if QES7_74V>-4 & QES7_74V<0 then PAYRATE7=QES7_74V;
            else if QES7_74U>0 then PAYRATE7=QES7_74U;
             else if QES7_74U>-4 & QES7_74U<0 then PAYRATE7=QES7_74U;
              else if QES7_75H=0 & QES7_75G=0 & QES7_75D=0 & QES7_75B=0
                 & QES7_74V=0 & QES7_74U=0 then PAYRATE7=-4;
end;
else if QES7_71A=6 then do;
  if QES7_75W>-4 then PAYRATE7=QES7_75W;
   else if QES7_75W>-4 & QES7_75W<0 then PAYRATE7=QES7_75W;
    else if QES7_75V>-4 then PAYRATE7=QES7_75V;
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    else if QES7_75V>-4 & QES7_75V<0 then PAYRATE7=QES7_75V;
     else if QES7_75S>-4 then PAYRATE7=QES7_75S;
      else if QES7_75S>-4 & QES7_75S<0 then PAYRATE7=QES7_75S;
       else if QES7_75Q>-4 then PAYRATE7=QES7_75Q;
        else if QES7_75Q>-4 & QES7_75Q<0 then PAYRATE7=QES7_75Q;
         else if QES7_75K>-4 then PAYRATE7=QES7_75K;
          else if QES7_75K>-4 & QES7_75K<0 then PAYRATE7=QES7_75K;
           else if QES7_75J>-4 then PAYRATE7=QES7_75J;
            else if QES7_75J>-4 & QES7_75J<0 then PAYRATE7=QES7_75J;
             else if QES7_75W=0 & QES7_75V=0 & QES7_75S=0 & QES7_75Q=0
                & QES7_75K=0 & QES7_75J=0 then PAYRATE7=-4;
end;
else if QES7_71A=4 then do;
  if QES7_76L>-4 then PAYRATE7=QES7_76L;
   else if QES7_76L>-4 & QES7_76L<0 then PAYRATE7=QES7_76L;
    else if QES7_76K>-4 then PAYRATE7=QES7_76K;
     else if QES7_76K>-4 & QES7_76K<0 then PAYRATE7=QES7_76K;
      else if QES7_76H>-4 then PAYRATE7=QES7_76H;
       else if QES7_76H>-4 & QES7_76H<0 then PAYRATE7=QES7_76H;
        else if QES7_76F>-4 then PAYRATE7=QES7_76F;
         else if QES7_76F>-4 & QES7_76F<0 then PAYRATE7=QES7_76F;
          else if QES7_75Z>-4 then PAYRATE7=QES7_75Z;
           else if QES7_75Z>-4 & QES7_75Z<0 then PAYRATE7=QES7_75Z;
            else if QES7_75Y>-4 then PAYRATE7=QES7_75Y;
             else if QES7_75Y>-4 & QES7_75Y<0 then PAYRATE7=QES7_75Y;
              else if QES7_76L=0 & QES7_76K=0 & QES7_76H=0 & QES7_76F=0
                 & QES7_75Z=0 & QES7_75Y=0 then PAYRATE7=-4;
end;

/* employer #8 */
/* start date */
QES8_8MC=-4; QES8_8DC=-4; QES8_8YC=-4;
if QES8_8_A>-4 then QES8_8MC=QES8_8_A;        else if QES8_8A_A>=-4 then QES8_8MC=QES8_8A_A;
                                              else if WT94=0 then QES8_8MC=-5;
if QES8_8_B>-4 then QES8_8DC=QES8_8_B;        else if QES8_8A_B>=-4 then QES8_8DC=QES8_8A_B;
                                              else if WT94=0 then QES8_8DC=-5;
if QES8_8_C>-4 then QES8_8YC=QES8_8_C;        else if QES8_8A_C>=-4 then QES8_8YC=QES8_8A_C;
                                              else if WT94=0 then QES8_8YC=-5;
/* wjg #1 reason */
QES8_33_1C=-4;
if QES8_34_1>-4 then QES8_33_1C=QES8_34_1;    else if QES8_33_1>=-4 then QES8_33_1C=QES8_33_1;
                                              else if WT94=0 then QES8_33_1C=-5;

/* wjg #2 reason */
QES8_33_2C=-4;
if QES8_34_2>-4 then QES8_33_2C=QES8_34_2;    else if QES8_33_2>=-4 then QES8_33_2C=QES8_33_2;
                                              else if WT94=0 then QES8_33_2C=-5;
/* wjg #3 reason */
QES8_33_3C=-4;
if QES8_34_3>-4 then QES8_33_3C=QES8_34_3;    else if QES8_33_3>=-4 then QES8_33_3C=QES8_33_3;
                                              else if WT94=0 then QES8_33_3C=-5;
/* wjg #4 reason */
QES8_33_4C=-4;
if QES8_34_4>-4 then QES8_33_4C=QES8_34_4;    else if QES8_33_4>=-4 then QES8_33_4C=QES8_33_4;
                                              else if WT94=0 then QES8_33_4C=-5;
/* payrate */
PAYRATE8=-4;
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if QES8_71A=1 then do;
  if QES8_73J>0 then PAYRATE8=QES8_73J;
   else if QES8_73J>-4 & QES8_73J<0 then PAYRATE8=QES8_73J;
    else if QES8_71R>0 then PAYRATE8=QES8_71R;
     else if QES8_71R>-4 & QES8_71R<0 then PAYRATE8=QES8_71R;
      else if QES8_71P>0 then PAYRATE8=QES8_71P;
       else if QES8_71P>-4 & QES8_71P<0 then PAYRATE8=QES8_71P;
        else if QES8_71J>0 then PAYRATE8=QES8_71J;
         else if QES8_71J>-4 & QES8_71J<0 then PAYRATE8=QES8_71J;
          else if QES8_71I>0 then PAYRATE8=QES8_71I;
           else if QES8_71I>-4 & QES8_71I<0 then PAYRATE8=QES8_71I;
            else if QES8_73J=0 & QES8_71R=0 & QES8_71P=0 & QES8_71J=0
               & QES8_71I=0 then PAYRATE8=-4;
end;
else if QES8_71A=2 | QES8_71A=3 | QES8_71A=7 then do;
  if QES8_74R>0 then PAYRATE8=QES8_74R;
   else if QES8_74R>-4 & QES8_74R<0 then PAYRATE8=QES8_74R;
    else if QES8_74Q>0 then PAYRATE8=QES8_74Q;
     else if QES8_74Q>-4 & QES8_74Q<0 then PAYRATE8=QES8_74Q;
      else if QES8_74M>0 then PAYRATE8=QES8_74M;
       else if QES8_74M>-4 & QES8_74M<0 then PAYRATE8=QES8_74M;
        else if QES8_74K>0 then PAYRATE8=QES8_74K;
         else if QES8_74K>-4 & QES8_74K<0 then PAYRATE8=QES8_74K;
          else if QES8_74E>0 then PAYRATE8=QES8_74E;
           else if QES8_74E>-4 & QES8_74E<0 then PAYRATE8=QES8_74E;
            else if QES8_74D>0 then PAYRATE8=QES8_74D;
             else if QES8_74D>-4 & QES8_74D<0 then PAYRATE8=QES8_74D;
              else if QES8_74R=0 & QES8_74Q=0 & QES8_74M=0 & QES8_74K=0
                 & QES8_74E=0 & QES8_74D=0 then PAYRATE8=-4;
end;
else if QES8_71A=5 | QES8_71A=8 then do;
  if QES8_75H>0 then PAYRATE8=QES8_75H;
   else if QES8_75H>-4 & QES8_75H<0 then PAYRATE8=QES8_75H;
    else if QES8_75G>0 then PAYRATE8=QES8_75G;
     else if QES8_75G>-4 & QES8_75G<0 then PAYRATE8=QES8_75G;
      else if QES8_75D>0 then PAYRATE8=QES8_75D;
       else if QES8_75D>-4 & QES8_75D<0 then PAYRATE8=QES8_75D;
        else if QES8_75B>0 then PAYRATE8=QES8_75B;
         else if QES8_75B>-4 & QES8_75B<0 then PAYRATE8=QES8_75B;
          else if QES8_74V>0 then PAYRATE8=QES8_74V;
           else if QES8_74V>-4 & QES8_74V<0 then PAYRATE8=QES8_74V;
            else if QES8_74U>0 then PAYRATE8=QES8_74U;
             else if QES8_74U>-4 & QES8_74U<0 then PAYRATE8=QES8_74U;
              else if QES8_75H=0 & QES8_75G=0 & QES8_75D=0 & QES8_75B=0
                 & QES8_74V=0 & QES8_74U=0 then PAYRATE8=-4;
end;
else if QES8_71A=6 then do;
  if QES8_75W>-4 then PAYRATE8=QES8_75W;
   else if QES8_75W>-4 & QES8_75W<0 then PAYRATE8=QES8_75W;
    else if QES8_75V>-4 then PAYRATE8=QES8_75V;
     else if QES8_75V>-4 & QES8_75V<0 then PAYRATE8=QES8_75V;
      else if QES8_75S>-4 then PAYRATE8=QES8_75S;
       else if QES8_75S>-4 & QES8_75S<0 then PAYRATE8=QES8_75S;
        else if QES8_75Q>-4 then PAYRATE8=QES8_75Q;
         else if QES8_75Q>-4 & QES8_75Q<0 then PAYRATE8=QES8_75Q;
          else if QES8_75K>-4 then PAYRATE8=QES8_75K;
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        else if QES8_75K>-4 & QES8_75K<0 then PAYRATE8=QES8_75K;
         else if QES8_75J>-4 then PAYRATE8=QES8_75J;
          else if QES8_75J>-4 & QES8_75J<0 then PAYRATE8=QES8_75J;
           else if QES8_75W=0 & QES8_75V=0 & QES8_75S=0 & QES8_75Q=0
              & QES8_75K=0 & QES8_75J=0 then PAYRATE8=-4;
end;
else if QES8_71A=4 then do;
  if QES8_76L>-4 then PAYRATE8=QES8_76L;
   else if QES8_76L>-4 & QES8_76L<0 then PAYRATE8=QES8_76L;
    else if QES8_76K>-4 then PAYRATE8=QES8_76K;
     else if QES8_76K>-4 & QES8_76K<0 then PAYRATE8=QES8_76K;
      else if QES8_76H>-4 then PAYRATE8=QES8_76H;
       else if QES8_76H>-4 & QES8_76H<0 then PAYRATE8=QES8_76H;
        else if QES8_76F>-4 then PAYRATE8=QES8_76F;
         else if QES8_76F>-4 & QES8_76F<0 then PAYRATE8=QES8_76F;
          else if QES8_75Z>-4 then PAYRATE8=QES8_75Z;
           else if QES8_75Z>-4 & QES8_75Z<0 then PAYRATE8=QES8_75Z;
            else if QES8_75Y>-4 then PAYRATE8=QES8_75Y;
             else if QES8_75Y>-4 & QES8_75Y<0 then PAYRATE8=QES8_75Y;
              else if QES8_76L=0 & QES8_76K=0 & QES8_76H=0 & QES8_76F=0
                 & QES8_75Z=0 & QES8_75Y=0 then PAYRATE8=-4;
end;


/* employer #9 */
/* start date */
QES9_8MC=-4; QES9_8DC=-4; QES9_8YC=-4;
if QES9_8_A>-4 then QES9_8MC=QES9_8_A;        else if QES9_8A_A>=-4 then QES9_8MC=QES9_8A_A;
                                              else if WT94=0 then QES9_8MC=-5;

if QES9_8_B>-4 then QES9_8DC=QES9_8_B;        else if QES9_8A_B>=-4 then QES9_8DC=QES9_8A_B;
                                              else if WT94=0 then QES9_8DC=-5;

if QES9_8_C>-4 then QES9_8YC=QES9_8_C;        else if QES9_8A_C>=-4 then QES9_8YC=QES9_8A_C;
                                              else if WT94=0 then QES9_8YC=-5;

/* wjg #1 reason */
QES9_33_1C=-4;
if QES9_34_1>-4 then QES9_33_1C=QES9_34_1;    else if QES9_33_1>=-4 then QES9_33_1C=QES9_33_1;
                                              else if WT94=0 then QES9_33_1C=-5;

/* wjg #2 reason */
QES9_33_2C=-4;
if QES9_34_2>-4 then QES9_33_2C=QES9_34_2;    else if QES9_33_2>=-4 then QES9_33_2C=QES9_33_2;
                                              else if WT94=0 then QES9_33_2C=-5;

/* wjg #3 reason */
QES9_33_3C=-4;
if QES9_34_3>-4 then QES9_33_3C=QES9_34_3;    else if QES9_33_3>=-4 then QES9_33_3C=QES9_33_3;
                                              else if WT94=0 then QES9_33_3C=-5;

/* wjg #4 reason */
QES9_33_4C=-4;
if QES9_34_4>-4 then QES9_33_4C=QES9_34_4;    else if QES9_33_4>=-4 then QES9_33_4C=QES9_33_4;
                                              else if WT94=0 then QES9_33_4C=-5;

/* payrate */
PAYRATE9=-4;
if QES9_71A=1 then do;
  if QES9_73J>0 then PAYRATE9=QES9_73J;
   else if QES9_73J>-4 & QES9_73J<0 then PAYRATE9=QES9_73J;
    else if QES9_71R>0 then PAYRATE9=QES9_71R;
     else if QES9_71R>-4 & QES9_71R<0 then PAYRATE9=QES9_71R;
      else if QES9_71P>0 then PAYRATE9=QES9_71P;
```

```
        else if QES9_71P>-4 & QES9_71P<0 then PAYRATE9=QES9_71P;
         else if QES9_71J>0 then PAYRATE9=QES9_71J;
          else if QES9_71J>-4 & QES9_71J<0 then PAYRATE9=QES9_71J;
           else if QES9_71I>0 then PAYRATE9=QES9_71I;
            else if QES9_71I>-4 & QES9_71I<0 then PAYRATE9=QES9_71I;
             else if QES9_73J=0 & QES9_71R=0 & QES9_71P=0 & QES9_71J=0
                & QES9_71I=0 then PAYRATE9=-4;
end;
else if QES9_71A=2 | QES9_71A=3 | QES9_71A=7 then do;
  if QES9_74R>0 then PAYRATE9=QES9_74R;
   else if QES9_74R>-4 & QES9_74R<0 then PAYRATE9=QES9_74R;
    else if QES9_74Q>0 then PAYRATE9=QES9_74Q;
     else if QES9_74Q>-4 & QES9_74Q<0 then PAYRATE9=QES9_74Q;
      else if QES9_74M>0 then PAYRATE9=QES9_74M;
       else if QES9_74M>-4 & QES9_74M<0 then PAYRATE9=QES9_74M;
        else if QES9_74K>0 then PAYRATE9=QES9_74K;
         else if QES9_74K>-4 & QES9_74K<0 then PAYRATE9=QES9_74K;
          else if QES9_74E>0 then PAYRATE9=QES9_74E;
           else if QES9_74E>-4 & QES9_74E<0 then PAYRATE9=QES9_74E;
            else if QES9_74D>0 then PAYRATE9=QES9_74D;
             else if QES9_74D>-4 & QES9_74D<0 then PAYRATE9=QES9_74D;
              else if QES9_74R=0 & QES9_74Q=0 & QES9_74M=0 & QES9_74K=0
                 & QES9_74E=0 & QES9_74D=0 then PAYRATE9=-4;
end;
else if QES9_71A=5 | QES9_71A=8 then do;
  if QES9_75H>0 then PAYRATE9=QES9_75H;
   else if QES9_75H>-4 & QES9_75H<0 then PAYRATE9=QES9_75H;
    else if QES9_75G>0 then PAYRATE9=QES9_75G;
     else if QES9_75G>-4 & QES9_75G<0 then PAYRATE9=QES9_75G;
      else if QES9_75D>0 then PAYRATE9=QES9_75D;
       else if QES9_75D>-4 & QES9_75D<0 then PAYRATE9=QES9_75D;
        else if QES9_75B>0 then PAYRATE9=QES9_75B;
         else if QES9_75B>-4 & QES9_75B<0 then PAYRATE9=QES9_75B;
          else if QES9_74V>0 then PAYRATE9=QES9_74V;
           else if QES9_74V>-4 & QES9_74V<0 then PAYRATE9=QES9_74V;
            else if QES9_74U>0 then PAYRATE9=QES9_74U;
             else if QES9_74U>-4 & QES9_74U<0 then PAYRATE9=QES9_74U;
              else if QES9_75H=0 & QES9_75G=0 & QES9_75D=0 & QES9_75B=0
                 & QES9_74V=0 & QES9_74U=0 then PAYRATE9=-4;
end;
else if QES9_71A=6 then do;
  if QES9_75W>-4 then PAYRATE9=QES9_75W;
   else if QES9_75W>-4 & QES9_75W<0 then PAYRATE9=QES9_75W;
    else if QES9_75V>-4 then PAYRATE9=QES9_75V;
     else if QES9_75V>-4 & QES9_75V<0 then PAYRATE9=QES9_75V;
      else if QES9_75S>-4 then PAYRATE9=QES9_75S;
       else if QES9_75S>-4 & QES9_75S<0 then PAYRATE9=QES9_75S;
        else if QES9_75Q>-4 then PAYRATE9=QES9_75Q;
         else if QES9_75Q>-4 & QES9_75Q<0 then PAYRATE9=QES9_75Q;
          else if QES9_75K>-4 then PAYRATE9=QES9_75K;
           else if QES9_75K>-4 & QES9_75K<0 then PAYRATE9=QES9_75K;
            else if QES9_75J>-4 then PAYRATE9=QES9_75J;
             else if QES9_75J>-4 & QES9_75J<0 then PAYRATE9=QES9_75J;
              else if QES9_75W=0 & QES9_75V=0 & QES9_75S=0 & QES9_75Q=0
                 & QES9_75K=0 & QES9_75J=0 then PAYRATE9=-4;
end;
```

```
else if QES9_71A=4 then do;
  if QES9_76L>-4 then PAYRATE9=QES9_76L;
    else if QES9_76L>-4 & QES9_76L<0 then PAYRATE9=QES9_76L;
     else if QES9_76K>-4 then PAYRATE9=QES9_76K;
      else if QES9_76K>-4 & QES9_76K<0 then PAYRATE9=QES9_76K;
       else if QES9_76H>-4 then PAYRATE9=QES9_76H;
        else if QES9_76H>-4 & QES9_76H<0 then PAYRATE9=QES9_76H;
         else if QES9_76F>-4 then PAYRATE9=QES9_76F;
          else if QES9_76F>-4 & QES9_76F<0 then PAYRATE9=QES9_76F;
           else if QES9_75Z>-4 then PAYRATE9=QES9_75Z;
            else if QES9_75Z>-4 & QES9_75Z<0 then PAYRATE9=QES9_75Z;
             else if QES9_75Y>-4 then PAYRATE9=QES9_75Y;
              else if QES9_75Y>-4 & QES9_75Y<0 then PAYRATE9=QES9_75Y;
               else if QES9_76L=0 & QES9_76K=0 & QES9_76H=0 & QES9_76F=0
                  & QES9_75Z=0 & QES9_75Y=0 then PAYRATE9=-4;
end;

/* employer #10 */
/* start date */
ES10_8MC=-4; ES10_8DC=-4; ES10_8YC=-4;
if ES10_8_A>-4 then ES10_8MC=ES10_8_A;
            else if ES10_8A_A>=-4 then ES10_8MC=ES10_8A_A;
            else if WT94=0 then ES10_8MC=-5;
if ES10_8_B>-4 then ES10_8DC=ES10_8_B;
            else if ES10_8A_B>=-4 then ES10_8DC=ES10_8A_B;
            else if WT94=0 then ES10_8DC=-5;
if ES10_8_C>-4 then ES10_8YC=ES10_8_C;
            else if ES10_8A_C>=-4 then ES10_8YC=ES10_8A_C;
            else if WT94=0 then ES10_8YC=-5;
/* wjg #1 reason */
ES10_33_1C=-4;
if ES10_34_1>-4 then ES10_33_1C=ES10_34_1;
            else if ES10_33_1>=-4 then ES10_33_1C=ES10_33_1;
            else if WT94=0 then ES10_33_1C=-5;
/* wjg #2 reason */
ES10_33_2C=-4;
if ES10_34_2>-4 then ES10_33_2C=ES10_34_2;
            else if ES10_33_2>=-4 then ES10_33_2C=ES10_33_2;
            else if WT94=0 then ES10_33_2C=-5;
/* wjg #3 reason */
ES10_33_3C=-4;
if ES10_34_3>-4 then ES10_33_3C=ES10_34_3;
            else if ES10_33_3>=-4 then ES10_33_3C=ES10_33_3;
            else if WT94=0 then ES10_33_3C=-5;
/* wjg #4 reason */
ES10_33_4C=-4;
if ES10_34_4>-4 then ES10_33_4C=ES10_34_4;
            else if ES10_33_4>=-4 then ES10_33_4C=ES10_33_4;
            else if WT94=0 then ES10_33_4C=-5;
/* payrate */
PAYRATE10=-4;
if ES10_71A=1 then do;
  if ES10_73J>0 then PAYRATE10=ES10_73J;
    else if ES10_73J>-4 & ES10_73J<0 then PAYRATE10=ES10_73J;
     else if ES10_71R>0 then PAYRATE10=ES10_71R;
      else if ES10_71R>-4 & ES10_71R<0 then PAYRATE10=ES10_71R;
```

```
      else if ES10_71P>0 then PAYRATE10=ES10_71P;
       else if ES10_71P>-4 & ES10_71P<0 then PAYRATE10=ES10_71P;
        else if ES10_71J>0 then PAYRATE10=ES10_71J;
         else if ES10_71J>-4 & ES10_71J<0 then PAYRATE10=ES10_71J;
          else if ES10_71I>0 then PAYRATE10=ES10_71I;
           else if ES10_71I>-4 & ES10_71I<0 then PAYRATE10=ES10_71I;
            else if ES10_73J=0 & ES10_71R=0 & ES10_71P=0 & ES10_71J=0
               & ES10_71I=0 then PAYRATE10=-4;
end;
else if ES10_71A=2 | ES10_71A=3 | ES10_71A=7 then do;
  if ES10_74R>0 then PAYRATE10=ES10_74R;
   else if ES10_74R>-4 & ES10_74R<0 then PAYRATE10=ES10_74R;
    else if ES10_74Q>0 then PAYRATE10=ES10_74Q;
     else if ES10_74Q>-4 & ES10_74Q<0 then PAYRATE10=ES10_74Q;
      else if ES10_74M>0 then PAYRATE10=ES10_74M;
       else if ES10_74M>-4 & ES10_74M<0 then PAYRATE10=ES10_74M;
        else if ES10_74K>0 then PAYRATE10=ES10_74K;
         else if ES10_74K>-4 & ES10_74K<0 then PAYRATE10=ES10_74K;
          else if ES10_74E>0 then PAYRATE10=ES10_74E;
           else if ES10_74E>-4 & ES10_74E<0 then PAYRATE10=ES10_74E;
            else if ES10_74D>0 then PAYRATE10=ES10_74D;
             else if ES10_74D>-4 & ES10_74D<0 then PAYRATE10=ES10_74D;
              else if ES10_74R=0 & ES10_74Q=0 & ES10_74M=0 & ES10_74K=0
                 & ES10_74E=0 & ES10_74D=0 then PAYRATE10=-4;
end;
else if ES10_71A=5 | ES10_71A=8 then do;
  if ES10_75H>0 then PAYRATE10=ES10_75H;
   else if ES10_75H>-4 & ES10_75H<0 then PAYRATE10=ES10_75H;
    else if ES10_75G>0 then PAYRATE10=ES10_75G;
     else if ES10_75G>-4 & ES10_75G<0 then PAYRATE10=ES10_75G;
      else if ES10_75D>0 then PAYRATE10=ES10_75D;
       else if ES10_75D>-4 & ES10_75D<0 then PAYRATE10=ES10_75D;
        else if ES10_75B>0 then PAYRATE10=ES10_75B;
         else if ES10_75B>-4 & ES10_75B<0 then PAYRATE10=ES10_75B;
          else if ES10_74V>0 then PAYRATE10=ES10_74V;
           else if ES10_74V>-4 & ES10_74V<0 then PAYRATE10=ES10_74V;
            else if ES10_74U>0 then PAYRATE10=ES10_74U;
             else if ES10_74U>-4 & ES10_74U<0 then PAYRATE10=ES10_74U;
              else if ES10_75H=0 & ES10_75G=0 & ES10_75D=0 & ES10_75B=0
                 & ES10_74V=0 & ES10_74U=0 then PAYRATE10=-4;
end;
else if ES10_71A=6 then do;
  if ES10_75W>-4 then PAYRATE10=ES10_75W;
   else if ES10_75W>-4 & ES10_75W<0 then PAYRATE10=ES10_75W;
    else if ES10_75V>-4 then PAYRATE10=ES10_75V;
     else if ES10_75V>-4 & ES10_75V<0 then PAYRATE10=ES10_75V;
      else if ES10_75S>-4 then PAYRATE10=ES10_75S;
       else if ES10_75S>-4 & ES10_75S<0 then PAYRATE10=ES10_75S;
        else if ES10_75Q>-4 then PAYRATE10=ES10_75Q;
         else if ES10_75Q>-4 & ES10_75Q<0 then PAYRATE10=ES10_75Q;
          else if ES10_75K>-4 then PAYRATE10=ES10_75K;
           else if ES10_75K>-4 & ES10_75K<0 then PAYRATE10=ES10_75K;
            else if ES10_75J>-4 then PAYRATE10=ES10_75J;
             else if ES10_75J>-4 & ES10_75J<0 then PAYRATE10=ES10_75J;
              else if ES10_75W=0 & ES10_75V=0 & ES10_75S=0 & ES10_75Q=0
                 & ES10_75K=0 & ES10_75J=0 then PAYRATE10=-4;
```

```
 end;
 else if ES10_71A=4 then do;
  if ES10_76L>-4 then PAYRATE10=ES10_76L;
   else if ES10_76L>-4 & ES10_76L<0 then PAYRATE10=ES10_76L;
    else if ES10_76K>-4 then PAYRATE10=ES10_76K;
     else if ES10_76K>-4 & ES10_76K<0 then PAYRATE10=ES10_76K;
      else if ES10_76H>-4 then PAYRATE10=ES10_76H;
       else if ES10_76H>-4 & ES10_76H<0 then PAYRATE10=ES10_76H;
        else if ES10_76F>-4 then PAYRATE10=ES10_76F;
         else if ES10_76F>-4 & ES10_76F<0 then PAYRATE10=ES10_76F;
          else if ES10_75Z>-4 then PAYRATE10=ES10_75Z;
           else if ES10_75Z>-4 & ES10_75Z<0 then PAYRATE10=ES10_75Z;
            else if ES10_75Y>-4 then PAYRATE10=ES10_75Y;
             else if ES10_75Y>-4 & ES10_75Y<0 then PAYRATE10=ES10_75Y;
              else if ES10_76L=0 & ES10_76K=0 & ES10_76H=0 & ES10_76F=0
                 & ES10_75Z=0 & ES10_75Y=0 then PAYRATE10=-4;
 end;

/* previousemp corrected to -4 from 0  */
 if EID1 = 0 then EID1 = -4;            if EID2 = 0 then EID2 = -4;
 if EID3 = 0 then EID3 = -4;            if EID4 = 0 then EID4 = -4;
 if EID5 = 0 then EID5 = -4;            if EID6 = 0 then EID6 = -4;
 if EID7 = 0 then EID7 = -4;            if EID8 = 0 then EID8 = -4;
 if EID9 = 0 then EID9 = -4;            if EID10 = 0 then EID10 = -4;

/* occupation corrected to -4 from 0  */
 if QES1_55H = 0 then QES1_55H = -4;    if QES1_56Kb = 0 then QES1_56Kb = -4;
 if QES2_55H = 0 then QES2_55H = -4;    if QES2_56Kb = 0 then QES2_56Kb = -4;
 if QES3_55H = 0 then QES3_55H = -4;    if QES3_56Kb = 0 then QES3_56Kb = -4;
 if QES4_55H = 0 then QES4_55H = -4;    if QES4_56Kb = 0 then QES4_56Kb = -4;
 if QES5_55H = 0 then QES5_55H = -4;    if QES5_56Kb = 0 then QES5_56Kb = -4;
 if QES6_55H = 0 then QES6_55H = -4;    if QES6_56Kb = 0 then QES6_56Kb = -4;
 if QES7_55H = 0 then QES7_55H = -4;    if QES7_56Kb = 0 then QES7_56Kb = -4;
 if QES8_55H = 0 then QES8_55H = -4;    if QES8_56Kb = 0 then QES8_56Kb = -4;
 if QES9_55H = 0 then QES9_55H = -4;    if QES9_56Kb = 0 then QES9_56Kb = -4;
 if ES10_55H = 0 then ES10_55H = -4;    if ES10_56Kb = 0 then ES10_56Kb = -4;
/* end consolidation of CAPI variables to approximate PAPI variables */

/*  no rewrites to 1994 data tape */

SKIPME:
  PR=1;
  do J=2 to NEWYEAR-1;
    if OLDHIST(J).OWT > 0 then PR=J;
  end;
  WORK_HISTORY(NEWYEAR)=-4;
  CPS_HOURLYWAGE(NEWYEAR)=-4;
  if (NORCIDS^=CASEID) then do; /* skipme: missing newyear w.h. data */
   /* if newdata file had 12686 cases this should be true of  wt94=0; */
    CPS_HOURLYWAGE(NEWYEAR)=-5;
    WORK_HISTORY(NEWYEAR)=-5;
    WORK_HISTORY.WEIGHT(NEWYEAR)=0 ;
    WTZERO=WTZERO+1;
  end;
  else do;
    call NEWVARIABLES;     /* read addjob variables */
```

```
   call CALC(NEWYEAR);
   call SUMMER(NEWYEAR);
   do I = 1 to 5;  /** COMPUTE CPS HOURLY WAGE **/
    if WORK_HISTORY.CPSJOB(NEWYEAR,I)=1 then CPS_HOURLYWAGE(NEWYEAR)=
      WORK_HISTORY.HOURLYWAGE(NEWYEAR,I);
   end;

   /*** COMPUTE CURRENT JOBEVER() ***/
   WORK_HISTORY.JOBEVER(NEWYEAR)=0;
   /* find greatest job cnt in hold hist */
   do I = (NEWYEAR-1) to 1 by -1 WHILE(WORK_HISTORY.JOBEVER(NEWYEAR)=0);
     if OLDHIST(I).OJOBEVER= -3 then WORK_HISTORY.JOBEVER(NEWYEAR)=-3;
     else if OLDHIST(I).OJOBEVER>0 then WORK_HISTORY.JOBEVER(NEWYEAR)=
       OLDHIST(I).OJOBEVER;
   end;
   if WORK_HISTORY.JOBEVER(NEWYEAR)>=0 then do;
    /* add any additional jobs ?        */
     do I=1 to 10;
       if (WORK_HISTORY.NUMBER(NEWYEAR,I)>100 &
         (WORK_HISTORY.PREVIOUSEMP#(NEWYEAR,I)= -3
          | WORK_HISTORY.PREVIOUSEMP#(NEWYEAR,I)=0) )
          then WORK_HISTORY.JOBEVER(NEWYEAR)=-3;
        else if (WORK_HISTORY.NUMBER(NEWYEAR,I)>100 &
            WORK_HISTORY.PREVIOUSEMP#(NEWYEAR,I)=-4 &
            WORK_HISTORY.JOBEVER(NEWYEAR)>=0 )
          then WORK_HISTORY.JOBEVER(NEWYEAR)=WORK_HISTORY.JOBEVER(NEWYEAR)+1;
     end;
   end;
 end;

/* move first 5 jobs into output structure */
WORK_HISTORY_5JOB(NEWYEAR).WEIGHT =WORK_HISTORY(NEWYEAR).WEIGHT;
WORK_HISTORY_5JOB(NEWYEAR).LASTINT=WORK_HISTORY(NEWYEAR).LASTINT;
WORK_HISTORY_5JOB(NEWYEAR).INT   =WORK_HISTORY(NEWYEAR).INT;
WORK_HISTORY_5JOB(NEWYEAR).INTM  =WORK_HISTORY(NEWYEAR).INTM;
WORK_HISTORY_5JOB(NEWYEAR).INTD  =WORK_HISTORY(NEWYEAR).INTD;
WORK_HISTORY_5JOB(NEWYEAR).INTY  =WORK_HISTORY(NEWYEAR).INTY;
WORK_HISTORY_5JOB(NEWYEAR).JOB(1) =WORK_HISTORY(NEWYEAR).JOB(1);
WORK_HISTORY_5JOB(NEWYEAR).JOB(2) =WORK_HISTORY(NEWYEAR).JOB(2);
WORK_HISTORY_5JOB(NEWYEAR).JOB(3) =WORK_HISTORY(NEWYEAR).JOB(3);
WORK_HISTORY_5JOB(NEWYEAR).JOB(4) =WORK_HISTORY(NEWYEAR).JOB(4);
WORK_HISTORY_5JOB(NEWYEAR).JOB(5) =WORK_HISTORY(NEWYEAR).JOB(5);
WORK_HISTORY_5JOB(NEWYEAR).BETWEEN_JOBS(1)=
   WORK_HISTORY(NEWYEAR).BETWEEN_JOBS(1);
WORK_HISTORY_5JOB(NEWYEAR).BETWEEN_JOBS(2)=
   WORK_HISTORY(NEWYEAR).BETWEEN_JOBS(2);
WORK_HISTORY_5JOB(NEWYEAR).BETWEEN_JOBS(3)=
   WORK_HISTORY(NEWYEAR).BETWEEN_JOBS(3);
WORK_HISTORY_5JOB(NEWYEAR).BETWEEN_JOBS(4)=
   WORK_HISTORY(NEWYEAR).BETWEEN_JOBS(4);
WORK_HISTORY_5JOB(NEWYEAR).BETWEEN_JOBS(5)=
   WORK_HISTORY(NEWYEAR).BETWEEN_JOBS(5);
WORK_HISTORY_5JOB(NEWYEAR).BETWEEN_JOBS(6)=
   WORK_HISTORY(NEWYEAR).BETWEEN_JOBS(6);
WORK_HISTORY_5JOB(NEWYEAR).MILITARY=WORK_HISTORY(NEWYEAR).MILITARY;
WORK_HISTORY_5JOB(NEWYEAR).WORKC=WORK_HISTORY(NEWYEAR).WORKC;
```

```
WORK_HISTORY_5JOB(NEWYEAR).HOURC=WORK_HISTORY(NEWYEAR).HOURC;
WORK_HISTORY_5JOB(NEWYEAR).WUMPC=WORK_HISTORY(NEWYEAR).WUMPC;
WORK_HISTORY_5JOB(NEWYEAR).WOLFC=WORK_HISTORY(NEWYEAR).WOLFC;
WORK_HISTORY_5JOB(NEWYEAR).CAL_YEAR_JOBS=
   WORK_HISTORY(NEWYEAR).CAL_YEAR_JOBS;
WORK_HISTORY_5JOB(NEWYEAR).CAL_YEAR_JOB#(1)=
   WORK_HISTORY(NEWYEAR).CAL_YEAR_JOB#(1);
WORK_HISTORY_5JOB(NEWYEAR).CAL_YEAR_JOB#(2)=
   WORK_HISTORY(NEWYEAR).CAL_YEAR_JOB#(2);
WORK_HISTORY_5JOB(NEWYEAR).CAL_YEAR_JOB#(3)=
   WORK_HISTORY(NEWYEAR).CAL_YEAR_JOB#(3);
WORK_HISTORY_5JOB(NEWYEAR).CAL_YEAR_JOB#(4)=
   WORK_HISTORY(NEWYEAR).CAL_YEAR_JOB#(4);
WORK_HISTORY_5JOB(NEWYEAR).CAL_YEAR_JOB#(5)=
   WORK_HISTORY(NEWYEAR).CAL_YEAR_JOB#(5);
WORK_HISTORY_5JOB(NEWYEAR).MISSC  =WORK_HISTORY(NEWYEAR).MISSC;
WORK_HISTORY_5JOB(NEWYEAR).NWMISSC=WORK_HISTORY(NEWYEAR).NWMISSC;
WORK_HISTORY_5JOB(NEWYEAR).LASTINT_SUM= WORK_HISTORY(NEWYEAR).LASTINT_SUM;

 write file(NEWWORK) from (VARIABLES);
 kount_out=kount_out+1;
 put file(OUTDISK) edit (
   ID,WORK_HISTORY.MILWKSL(NEWYEAR),WORK_HISTORY.MILWKSC(NEWYEAR),
       WORK_HISTORY.WORKC(NEWYEAR),WORK_HISTORY.HOURC(NEWYEAR),
       WORK_HISTORY.WUMPC(NEWYEAR),WORK_HISTORY.WOLFC(NEWYEAR),
       WORK_HISTORY.MISSC(NEWYEAR),WORK_HISTORY.WORKL(NEWYEAR),
       WORK_HISTORY.HOURL(NEWYEAR),WORK_HISTORY.WUMPL(NEWYEAR),
       WORK_HISTORY.WOLFL(NEWYEAR),WORK_HISTORY.WBID(NEWYEAR),
       WORK_HISTORY.MISSL(NEWYEAR),CPS_HOURLYWAGE(NEWYEAR),
       WORK_HISTORY.HOURLYWAGE(NEWYEAR,1),
       WORK_HISTORY.HOURLYWAGE(NEWYEAR,2),
       WORK_HISTORY.HOURLYWAGE(NEWYEAR,3),
       WORK_HISTORY.HOURLYWAGE(NEWYEAR,4),
       WORK_HISTORY.HOURLYWAGE(NEWYEAR,5),WORK_HISTORY.JOBEVER(NEWYEAR),
       WORK_HISTORY.WEIGHT(NEWYEAR),WORK_HISTORY.TENURE(NEWYEAR,1),
       WORK_HISTORY.TENURE(NEWYEAR,2),WORK_HISTORY.TENURE(NEWYEAR,3),
       WORK_HISTORY.TENURE(NEWYEAR,4),WORK_HISTORY.TENURE(NEWYEAR,5))
   (COL(1),27(F(7)));
/***************** file for checking matches
  if (( WORK_HISTORY.INTY(NEWYEAR) ^= 94 |
     WORK_HISTORY_5JOB.INTY(NEWYEAR) ^= 94) & TEMCNT <= 30)
     | kount_out < 11
then do ;
put file(sysprint) edit(' ERR on SURVEY YEAR ID=',ID) (skip(2),A,F(7,0));
put file(sysprint) edit('WORK_HISTORY.INTY(NEWYEAR)    ',
WORK_HISTORY.INTY(NEWYEAR) )(skip(1),A,F(7,0));
put file(sysprint) edit('WORK_HISTORY_5JOB.INTY(NEWYEAR) ',
WORK_HISTORY_5JOB.INTY(NEWYEAR))(skip(1),A,F(7,0));
put file(sysprint) edit('WORK_HISTORY_5JOB.WORKC(NEWYEAR ',
WORK_HISTORY_5JOB.WORKC(NEWYEAR))(skip(1),A,F(7,0));
put file(sysprint) edit('WORK_HISTORY_5JOB.HOURC(NEWYEAR ',
 WORK_HISTORY_5JOB.HOURC(NEWYEAR))(skip(1),A,F(7,0));
put file(sysprint) edit('WORK_HISTORY_5JOB.WUMPC(NEWYEAR ',
WORK_HISTORY_5JOB.WUMPC(NEWYEAR))(skip(1),A,F(7,0));
put file(sysprint) edit('WORK_HISTORY_5JOB.WOLFC(NEWYEAR ',
WORK_HISTORY_5JOB.WOLFC(NEWYEAR))(skip(1),A,F(7,0));
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put file(sysprint) edit('WORK_HISTORY_5JOB.MISSC(NEWYEAR ',
WORK_HISTORY_5JOB.MISSC(NEWYEAR))(skip(1),A,F(7,0));
put file(sysprint) edit('WORK_HISTORY_5JOB.WORKL(NEWYEAR ',
WORK_HISTORY_5JOB.WORKL(NEWYEAR))(skip(1),A,F(7,0));
put file(sysprint) edit('WORK_HISTORY_5JOB.HOURL(NEWYEAR ',
WORK_HISTORY_5JOB.HOURL(NEWYEAR))(skip(1),A,F(7,0));
put file(sysprint) edit('WORK_HISTORY_5JOB.WUMPL(NEWYEAR ',
WORK_HISTORY_5JOB.WUMPL(NEWYEAR))(skip(1),A,F(7,0));
put file(sysprint) edit('WORK_HISTORY_5JOB.WOLFL(NEWYEAR ',
WORK_HISTORY_5JOB.WOLFL(NEWYEAR))(skip(1),A,F(7,0));
put file(sysprint) edit('WORK_HISTORY_5JOB.WBID(NEWYEAR) ',
WORK_HISTORY_5JOB.WBID(NEWYEAR))(skip(1),A,F(7,0));
put file(sysprint) edit('WORK_HISTORY_5JOB.MISSL(NEWYEAR ',
WORK_HISTORY_5JOB.MISSL(NEWYEAR))(skip(1),A,F(7,0));
put file(sysprint) edit('WORK_HISTORY_5JOB.JOBEVER(NEWYE ',
WORK_HISTORY_5JOB.JOBEVER(NEWYEAR))(skip(1),A,F(7,0));
put file(sysprint) edit('WORK_HISTORY_5JOB.TENURE(NEWYEA ',
WORK_HISTORY_5JOB.TENURE(NEWYEAR,1))(skip(1),A,F(7,0));
put file(sysprint) edit('WORK_HISTORY_5JOB.WEIGHT(NEWYEA ',
 WORK_HISTORY_5JOB.WEIGHT(NEWYEAR))(skip(1),A,F(7,0));
put file(sysprint) edit('WT94 =   ',WT94)(skip(1),A,F(7,0));
     TEMCNT= TEMCNT + 1;
end;    *****************/
  go to READ1;  /*** MAIN LOOP ***/

1NEWVARIABLES:PROC;
/*  dcl addjvbls(586) float dec(6); */
WORK_HISTORY.WEIGHT(NEWYEAR)=WT94;
WORK_HISTORY.STARTM(NEWYEAR,1)=QES1_8MC;
WORK_HISTORY.STARTD(NEWYEAR,1)=QES1_8DC;
WORK_HISTORY.STARTY(NEWYEAR,1)=QES1_8YC;
WORK_HISTORY.STARTM(NEWYEAR,2)=QES2_8MC;
WORK_HISTORY.STARTD(NEWYEAR,2)=QES2_8DC;
WORK_HISTORY.STARTY(NEWYEAR,2)=QES2_8YC;
WORK_HISTORY.STARTM(NEWYEAR,3)=QES3_8MC;
WORK_HISTORY.STARTD(NEWYEAR,3)=QES3_8DC;
WORK_HISTORY.STARTY(NEWYEAR,3)=QES3_8YC;
WORK_HISTORY.STARTM(NEWYEAR,4)=QES4_8MC;
WORK_HISTORY.STARTD(NEWYEAR,4)=QES4_8DC;
WORK_HISTORY.STARTY(NEWYEAR,4)=QES4_8YC;
WORK_HISTORY.STARTM(NEWYEAR,5)=QES5_8MC;
WORK_HISTORY.STARTD(NEWYEAR,5)=QES5_8DC;
WORK_HISTORY.STARTY(NEWYEAR,5)=QES5_8YC;
WORK_HISTORY.STOPM(NEWYEAR,1)=QES1_26_A;
WORK_HISTORY.STOPD(NEWYEAR,1)=QES1_26_B;
WORK_HISTORY.STOPY(NEWYEAR,1)=QES1_26_C;
WORK_HISTORY.STOPM(NEWYEAR,2)=QES2_26_A;
WORK_HISTORY.STOPD(NEWYEAR,2)=QES2_26_B;
WORK_HISTORY.STOPY(NEWYEAR,2)=QES2_26_C;
WORK_HISTORY.STOPM(NEWYEAR,3)=QES3_26_A;
WORK_HISTORY.STOPD(NEWYEAR,3)=QES3_26_B;
WORK_HISTORY.STOPY(NEWYEAR,3)=QES3_26_C;
WORK_HISTORY.STOPM(NEWYEAR,4)=QES4_26_A;
WORK_HISTORY.STOPD(NEWYEAR,4)=QES4_26_B;
WORK_HISTORY.STOPY(NEWYEAR,4)=QES4_26_C;
WORK_HISTORY.STOPM(NEWYEAR,5)=QES5_26_A;
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WORK_HISTORY.STOPD(NEWYEAR,5)=QES5_26_B;
WORK_HISTORY.STOPY(NEWYEAR,5)=QES5_26_C;
WORK_HISTORY.LASTINT(NEWYEAR)=
 CEIL(WEEK(OLDHIST(PR).OINTM,OLDHIST(PR).OINTD,OLDHIST(PR).OINTY)+1/7);
WORK_HISTORY.INT(NEWYEAR)=FLOOR(WEEK(Q_1C_A,Q_1C_B,SURVEY_YR));
WORK_HISTORY.INTM(NEWYEAR)=Q_1C_A;
WORK_HISTORY.INTD(NEWYEAR)=Q_1C_B;
 /* if WORK_HISTORY.INT(NEWYEAR)=-3 then WORK_HISTORY.INT(NEWYEAR)=-3; */
if WORK_HISTORY.WEIGHT(NEWYEAR)>0 then WORK_HISTORY.INTY(NEWYEAR)=SURVEY_YR;
WORK_HISTORY.HOURDAY(NEWYEAR,1)=QES1_51;
WORK_HISTORY.HOURDAY(NEWYEAR,2)=QES2_51;
WORK_HISTORY.HOURDAY(NEWYEAR,3)=QES3_51;
WORK_HISTORY.HOURDAY(NEWYEAR,4)=QES4_51;
WORK_HISTORY.HOURDAY(NEWYEAR,5)=QES5_51;
WORK_HISTORY.PAYRATE(NEWYEAR,1)=PAYRATE1;
WORK_HISTORY.PAYRATE(NEWYEAR,2)=PAYRATE2;
WORK_HISTORY.PAYRATE(NEWYEAR,3)=PAYRATE3;
WORK_HISTORY.PAYRATE(NEWYEAR,4)=PAYRATE4;
WORK_HISTORY.PAYRATE(NEWYEAR,5)=PAYRATE5;
WORK_HISTORY.TIMERATE(NEWYEAR,1)=QES1_71A;
WORK_HISTORY.TIMERATE(NEWYEAR,2)=QES2_71A;
WORK_HISTORY.TIMERATE(NEWYEAR,3)=QES3_71A;
WORK_HISTORY.TIMERATE(NEWYEAR,4)=QES4_71A;
WORK_HISTORY.TIMERATE(NEWYEAR,5)=QES5_71A;
WORK_HISTORY.UNION(NEWYEAR,1)=QES1_88B;
WORK_HISTORY.UNION(NEWYEAR,2)=QES2_88B;
WORK_HISTORY.UNION(NEWYEAR,3)=QES3_88B;
WORK_HISTORY.UNION(NEWYEAR,4)=QES4_88B;
WORK_HISTORY.UNION(NEWYEAR,5)=QES5_88B;
WORK_HISTORY.GOVTJOB(NEWYEAR,1)=-4;
WORK_HISTORY.GOVTJOB(NEWYEAR,2)=-4;
WORK_HISTORY.GOVTJOB(NEWYEAR,3)=-4;
WORK_HISTORY.GOVTJOB(NEWYEAR,4)=-4;
WORK_HISTORY.GOVTJOB(NEWYEAR,5)=-4;
WORK_HISTORY.PREVIOUSEMP#(NEWYEAR,1)=EID1;
WORK_HISTORY.PREVIOUSEMP#(NEWYEAR,2)=EID2;
WORK_HISTORY.PREVIOUSEMP#(NEWYEAR,3)=EID3;
WORK_HISTORY.PREVIOUSEMP#(NEWYEAR,4)=EID4;
WORK_HISTORY.PREVIOUSEMP#(NEWYEAR,5)=EID5;
WORK_HISTORY.PRETEN(NEWYEAR,1)=QES1_6;
WORK_HISTORY.PRETEN(NEWYEAR,2)=QES2_6;
WORK_HISTORY.PRETEN(NEWYEAR,3)=QES3_6;
WORK_HISTORY.PRETEN(NEWYEAR,4)=QES4_6;
WORK_HISTORY.PRETEN(NEWYEAR,5)=QES5_6;
if QES1_8MC>-4 then do;
  WORK_HISTORY.START(NEWYEAR,1)=WEEK(QES1_8MC,QES1_8DC,QES1_8YC);
  WORK_HISTORY.STOP(NEWYEAR,1)=WEEK(QES1_26_A,QES1_26_B,QES1_26_C);
end;
if QES2_8MC>-4 then do;
  WORK_HISTORY.START(NEWYEAR,2)=WEEK(QES2_8MC,QES2_8DC,QES2_8YC);
  WORK_HISTORY.STOP(NEWYEAR,2)=WEEK(QES2_26_A,QES2_26_B,QES2_26_C);
end;
if QES3_8MC>-4 then do;
  WORK_HISTORY.START(NEWYEAR,3)=WEEK(QES3_8MC,QES3_8DC,QES3_8YC);
  WORK_HISTORY.STOP(NEWYEAR,3)=WEEK(QES3_26_A,QES3_26_B,QES3_26_C);
end;
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if QES4_8MC>-4 then do;
  WORK_HISTORY.START(NEWYEAR,4)=WEEK(QES4_8MC,QES4_8DC,QES4_8YC);
  WORK_HISTORY.STOP(NEWYEAR,4)=WEEK(QES4_26_A,QES4_26_B,QES4_26_C);
end;
if QES5_8MC>-4 then do;
  WORK_HISTORY.START(NEWYEAR,5)=WEEK(QES5_8MC,QES5_8DC,QES5_8YC);
  WORK_HISTORY.STOP(NEWYEAR,5)=WEEK(QES5_26_A,QES5_26_B,QES5_26_C);
end;
WORK_HISTORY.PAST(NEWYEAR,1)=QES1_4B;
WORK_HISTORY.PAST(NEWYEAR,2)=QES2_4B;
WORK_HISTORY.PAST(NEWYEAR,3)=QES3_4B;
WORK_HISTORY.PAST(NEWYEAR,4)=QES4_4B;
WORK_HISTORY.PAST(NEWYEAR,5)=QES5_4B;
WORK_HISTORY.CURRENT(NEWYEAR,1)=QES1_23;
WORK_HISTORY.CURRENT(NEWYEAR,2)=QES2_23;
WORK_HISTORY.CURRENT(NEWYEAR,3)=QES3_23;
WORK_HISTORY.CURRENT(NEWYEAR,4)=QES4_23;
WORK_HISTORY.CURRENT(NEWYEAR,5)=QES5_23;
WORK_HISTORY.WHYLEFT(NEWYEAR,1)=QES1_23A;
WORK_HISTORY.WHYLEFT(NEWYEAR,2)=QES2_23A;
WORK_HISTORY.WHYLEFT(NEWYEAR,3)=QES3_23A;
WORK_HISTORY.WHYLEFT(NEWYEAR,4)=QES4_23A;
WORK_HISTORY.WHYLEFT(NEWYEAR,5)=QES5_23A;
WORK_HISTORY.WEEKSNOTWORKED(NEWYEAR,1)=QES1_28;
WORK_HISTORY.WEEKSNOTWORKED(NEWYEAR,2)=QES2_28;
WORK_HISTORY.WEEKSNOTWORKED(NEWYEAR,3)=QES3_28;
WORK_HISTORY.WEEKSNOTWORKED(NEWYEAR,4)=QES4_28;
WORK_HISTORY.WEEKSNOTWORKED(NEWYEAR,5)=QES5_28;
/*  work_history.cpsjob(newyear,1)=qes1_52; */
if Q4_30^=1 & QES1_23^=-4 then WORK_HISTORY.CPSJOB(NEWYEAR,1)=1;
else if Q4_30^=1 & QES1_23=-4 then WORK_HISTORY.CPSJOB(NEWYEAR,1)=-4;
else if Q4_30=1 & QES1_23^=-4 then WORK_HISTORY.CPSJOB(NEWYEAR,1)=0;
else if Q4_30=1 & QES1_23=-4 then WORK_HISTORY.CPSJOB(NEWYEAR,1)=-4;
if QES2_23 ^= -4 then WORK_HISTORY.CPSJOB(NEWYEAR,2)=0;
else WORK_HISTORY.CPSJOB(NEWYEAR,2)=-4;
if QES3_23 ^= -4 then WORK_HISTORY.CPSJOB(NEWYEAR,3)=0;
else WORK_HISTORY.CPSJOB(NEWYEAR,3)=-4;
if QES4_23 ^= -4 then WORK_HISTORY.CPSJOB(NEWYEAR,4)=0;
else WORK_HISTORY.CPSJOB(NEWYEAR,4)=-4;
if QES5_23 ^= -4 then WORK_HISTORY.CPSJOB(NEWYEAR,5)=0;
else WORK_HISTORY.CPSJOB(NEWYEAR,5)=-4;


/* changes: 12/31/96 - additions to i&o&cow coding */
if (QES1_55Dc=1 & (QES1_56Ka ^= -4 | QES1_56Kb ^= -4 | QES1_56Kc ^= -4)) then do;
  WORK_HISTORY.INDUSTRY(NEWYEAR,1)=QES1_56Ka;
  WORK_HISTORY.OCCUPATION(NEWYEAR,1)=QES1_56Kb;
  WORK_HISTORY.CLASSWORKER(NEWYEAR,1)=QES1_56Kc;
end;
else if (QES1_55Dc=1 & QES1_56Ka = -4 & QES1_56Kb = -4 & QES1_56Kc = -4
  & (QES1_55E ^= -4 | QES1_55H ^= -4 | QES1_56B ^= -4 | QES1_56C ^= -4)) then do;
  WORK_HISTORY.INDUSTRY(NEWYEAR,1)=QES1_55E;
  WORK_HISTORY.OCCUPATION(NEWYEAR,1)=QES1_55H;
  if QES1_56A=1 then WORK_HISTORY.CLASSWORKER(NEWYEAR,1)=QES1_56C;
  else if QES1_56A=0 then WORK_HISTORY.CLASSWORKER(NEWYEAR,1)=QES1_56B;
  else if QES1_56B=-4 & QES1_56C=-4 then WORK_HISTORY.CLASSWORKER(NEWYEAR,1)=-3;
end;
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else do;
   WORK_HISTORY.INDUSTRY(NEWYEAR,1)=QES1_55E;
   WORK_HISTORY.OCCUPATION(NEWYEAR,1)=QES1_55H;
   if QES1_56A=1 then WORK_HISTORY.CLASSWORKER(NEWYEAR,1)=QES1_56C;
   else if QES1_56A=0 then WORK_HISTORY.CLASSWORKER(NEWYEAR,1)=QES1_56B;
end;
if QES1_52D=-4 then WORK_HISTORY.HOURSWEEK(NEWYEAR,1)=QES1_52A;
 else if QES1_52D^=-4 then WORK_HISTORY.HOURSWEEK(NEWYEAR,1)=QES1_52D;

if (QES2_55Dc=1 & (QES2_56Ka ^= -4 | QES2_56Kb ^= -4 | QES2_56Kc ^= -4)) then do;
   WORK_HISTORY.INDUSTRY(NEWYEAR,2)=QES2_56Ka;
   WORK_HISTORY.OCCUPATION(NEWYEAR,2)=QES2_56Kb;
   WORK_HISTORY.CLASSWORKER(NEWYEAR,2)=QES2_56Kc;
end;
else if (QES2_55Dc=1 & QES2_56Ka = -4 & QES2_56Kb = -4 & QES2_56Kc = -4
   & (QES2_55E ^= -4 | QES2_55H ^= -4 | QES2_56B ^= -4 | QES2_56C ^= -4)) then do;
   WORK_HISTORY.INDUSTRY(NEWYEAR,2)=QES2_55E;
   WORK_HISTORY.OCCUPATION(NEWYEAR,2)=QES2_55H;
   if QES2_56A=1 then WORK_HISTORY.CLASSWORKER(NEWYEAR,2)=QES2_56C;
   else if QES2_56A=0 then WORK_HISTORY.CLASSWORKER(NEWYEAR,2)=QES2_56B;
   else if QES2_56B=-4 & QES2_56C=-4 then WORK_HISTORY.CLASSWORKER(NEWYEAR,2)=-3;
end;
else do;
   WORK_HISTORY.INDUSTRY(NEWYEAR,2)=QES2_55E;
   WORK_HISTORY.OCCUPATION(NEWYEAR,2)=QES2_55H;
   if QES2_56A=1 then WORK_HISTORY.CLASSWORKER(NEWYEAR,2)=QES2_56C;
   else if QES2_56A=0 then WORK_HISTORY.CLASSWORKER(NEWYEAR,2)=QES2_56B;
end;
if QES2_52D=-4 then WORK_HISTORY.HOURSWEEK(NEWYEAR,2)=QES2_52A;
 else if QES2_52D^=-4 then WORK_HISTORY.HOURSWEEK(NEWYEAR,2)=QES2_52D;

if (QES3_55Dc=1 & (QES3_56Ka ^= -4 | QES3_56Kb ^= -4 | QES3_56Kc ^= -4)) then do;
   WORK_HISTORY.INDUSTRY(NEWYEAR,3)=QES3_56Ka;
   WORK_HISTORY.OCCUPATION(NEWYEAR,3)=QES3_56Kb;
   WORK_HISTORY.CLASSWORKER(NEWYEAR,3)=QES3_56Kc;
end;
else if (QES3_55Dc=1 & QES3_56Ka = -4 & QES3_56Kb = -4 & QES3_56Kc = -4
   & (QES3_55E ^= -4 | QES3_55H ^= -4 | QES3_56B ^= -4 | QES3_56C ^= -4)) then do;
   WORK_HISTORY.INDUSTRY(NEWYEAR,3)=QES3_55E;
   WORK_HISTORY.OCCUPATION(NEWYEAR,3)=QES3_55H;
   if QES3_56A=1 then WORK_HISTORY.CLASSWORKER(NEWYEAR,3)=QES3_56C;
   else if QES3_56A=0 then WORK_HISTORY.CLASSWORKER(NEWYEAR,3)=QES3_56B;
   else if QES3_56B=-4 & QES3_56C=-4 then WORK_HISTORY.CLASSWORKER(NEWYEAR,3)=-3;
end;
else do;
   WORK_HISTORY.INDUSTRY(NEWYEAR,3)=QES3_55E;
   WORK_HISTORY.OCCUPATION(NEWYEAR,3)=QES3_55H;
   if QES3_56A=1 then WORK_HISTORY.CLASSWORKER(NEWYEAR,3)=QES3_56C;
   else if QES3_56A=0 then WORK_HISTORY.CLASSWORKER(NEWYEAR,3)=QES3_56B;
end;
if QES3_52D=-4 then WORK_HISTORY.HOURSWEEK(NEWYEAR,3)=QES3_52A;
 else if QES3_52D^=-4 then WORK_HISTORY.HOURSWEEK(NEWYEAR,3)=QES3_52D;

if (QES4_55Dc=1 & (QES4_56Ka ^= -4 | QES4_56Kb ^= -4 | QES4_56Kc ^= -4)) then do;
   WORK_HISTORY.INDUSTRY(NEWYEAR,4)=QES4_56Ka;
   WORK_HISTORY.OCCUPATION(NEWYEAR,4)=QES4_56Kb;
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  WORK_HISTORY.CLASSWORKER(NEWYEAR,4)=QES4_56Kc;
end;
else if (QES4_55Dc=1 & QES4_56Ka = -4 & QES4_56Kb = -4 & QES4_56Kc = -4
  & (QES4_55E ^= -4 | QES4_55H ^= -4 | QES4_56B ^= -4 | QES4_56C ^= -4)) then do;
  WORK_HISTORY.INDUSTRY(NEWYEAR,4)=QES4_55E;
  WORK_HISTORY.OCCUPATION(NEWYEAR,4)=QES4_55H;
  if QES4_56A=1 then WORK_HISTORY.CLASSWORKER(NEWYEAR,4)=QES4_56C;
  else if QES4_56A=0 then WORK_HISTORY.CLASSWORKER(NEWYEAR,4)=QES4_56B;
  else if QES4_56B=-4 & QES4_56C=-4 then WORK_HISTORY.CLASSWORKER(NEWYEAR,4)=-3;
end;
else do;
  WORK_HISTORY.INDUSTRY(NEWYEAR,4)=QES4_55E;
  WORK_HISTORY.OCCUPATION(NEWYEAR,4)=QES4_55H;
  if QES4_56A=1 then WORK_HISTORY.CLASSWORKER(NEWYEAR,4)=QES4_56C;
  else if QES4_56A=0 then WORK_HISTORY.CLASSWORKER(NEWYEAR,4)=QES4_56B;
end;
if QES4_52D=-4 then WORK_HISTORY.HOURSWEEK(NEWYEAR,4)=QES4_52A;
 else if QES4_52D^=-4 then WORK_HISTORY.HOURSWEEK(NEWYEAR,4)=QES4_52D;

if (QES5_55Dc=1 & (QES5_56Ka ^= -4 | QES5_56Kb ^= -4 | QES5_56Kc ^= -4)) then do;
  WORK_HISTORY.INDUSTRY(NEWYEAR,5)=QES5_56Ka;
  WORK_HISTORY.OCCUPATION(NEWYEAR,5)=QES5_56Kb;
  WORK_HISTORY.CLASSWORKER(NEWYEAR,5)=QES5_56Kc;
end;
else if (QES5_55Dc=1 & QES5_56Ka = -4 & QES5_56Kb = -4 & QES5_56Kc = -4
  & (QES5_55E ^= -4 | QES5_55H ^= -4 | QES5_56B ^= -4 | QES5_56C ^= -4)) then do;
  WORK_HISTORY.INDUSTRY(NEWYEAR,5)=QES5_55E;
  WORK_HISTORY.OCCUPATION(NEWYEAR,5)=QES5_55H;
  if QES5_56A=1 then WORK_HISTORY.CLASSWORKER(NEWYEAR,5)=QES5_56C;
  else if QES5_56A=0 then WORK_HISTORY.CLASSWORKER(NEWYEAR,5)=QES5_56B;
  else if QES5_56B=-4 & QES5_56C=-4 then WORK_HISTORY.CLASSWORKER(NEWYEAR,5)=-3;
end;
else do;
  WORK_HISTORY.INDUSTRY(NEWYEAR,5)=QES5_55E;
  WORK_HISTORY.OCCUPATION(NEWYEAR,5)=QES5_55H;
  if QES5_56A=1 then WORK_HISTORY.CLASSWORKER(NEWYEAR,5)=QES5_56C;
  else if QES5_56A=0 then WORK_HISTORY.CLASSWORKER(NEWYEAR,5)=QES5_56B;
end;
if QES5_52D=-4 then WORK_HISTORY.HOURSWEEK(NEWYEAR,5)=QES5_52A;
 else if QES5_52D^=-4 then WORK_HISTORY.HOURSWEEK(NEWYEAR,5)=QES5_52D;

 if QES1_30_1_A>-4 then do;
 WORK_HISTORY.PERIODSTART(NEWYEAR,1,1)=WEEK(QES1_30_1_A,QES1_30_1_B,QES1_30_1_C);
 WORK_HISTORY.PERIODSTOP(NEWYEAR,1,1)=WEEK(QES1_31_1_A,QES1_31_1_B,QES1_31_1_C);
end;
if QES1_30_2_A>-4 then do;
 WORK_HISTORY.PERIODSTART(NEWYEAR,1,2)=WEEK(QES1_30_2_A,QES1_30_2_B,QES1_30_2_C);
 WORK_HISTORY.PERIODSTOP(NEWYEAR,1,2)=WEEK(QES1_31_2_A,QES1_31_2_B,QES1_31_2_C);
end;
if QES1_30_3_A>-4 then do;
 WORK_HISTORY.PERIODSTART(NEWYEAR,1,3)=WEEK(QES1_30_3_A,QES1_30_3_B,QES1_30_3_C);
 WORK_HISTORY.PERIODSTOP(NEWYEAR,1,3)=WEEK(QES1_31_3_A,QES1_31_3_B,QES1_31_3_C);
end;
if QES2_30_1_A>-4 then do;
 WORK_HISTORY.PERIODSTART(NEWYEAR,2,1)=WEEK(QES2_30_1_A,QES2_30_1_B,QES2_30_1_C);
 WORK_HISTORY.PERIODSTOP(NEWYEAR,2,1)=WEEK(QES2_31_1_A ,QES2_31_1_B,QES2_31_1_C);
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end;
if QES2_30_2_A>-4 then do;
  WORK_HISTORY.PERIODSTART(NEWYEAR,2,2)=WEEK(QES2_30_2_A,QES2_30_2_B,QES2_30_2_C);
  WORK_HISTORY.PERIODSTOP(NEWYEAR,2,2)=WEEK(QES2_31_2_A,QES2_31_2_B,QES2_31_2_C);
end;
if QES2_30_3_A>-4 then do;
  WORK_HISTORY.PERIODSTART(NEWYEAR,2,3)=WEEK(QES2_30_3_A,QES2_30_3_B,QES2_30_3_C);
  WORK_HISTORY.PERIODSTOP(NEWYEAR,2,3)=WEEK(QES2_31_3_A,QES2_31_3_B,QES2_31_3_C);
end;
if QES3_30_1_A>-4 then do;
  WORK_HISTORY.PERIODSTART(NEWYEAR,3,1)=WEEK(QES3_30_1_A,QES3_30_1_B,QES3_30_1_C);
  WORK_HISTORY.PERIODSTOP(NEWYEAR,3,1)=WEEK(QES3_31_1_A ,QES3_31_1_B,QES3_31_1_C);
end;
if QES3_30_2_A>-4 then do;
  WORK_HISTORY.PERIODSTART(NEWYEAR,3,2)=WEEK(QES3_30_2_A,QES3_30_2_B,QES3_30_2_C);
  WORK_HISTORY.PERIODSTOP(NEWYEAR,3,2)=WEEK(QES3_31_2_A,QES3_31_2_B,QES3_31_2_C);
end;
if QES3_30_3_A>-4 then do;
  WORK_HISTORY.PERIODSTART(NEWYEAR,3,3)=WEEK(QES3_30_3_A,QES3_30_3_B,QES3_30_3_C);
  WORK_HISTORY.PERIODSTOP(NEWYEAR,3,3)=WEEK(QES3_31_3_A,QES3_31_3_B,QES3_31_3_C);
end;
if QES4_30_1_A>-4 then do;
  WORK_HISTORY.PERIODSTART(NEWYEAR,4,1)=WEEK(QES4_30_1_A,QES4_30_1_B,QES4_30_1_C);
  WORK_HISTORY.PERIODSTOP(NEWYEAR,4,1)=WEEK(QES4_31_1_A ,QES4_31_1_B,QES4_31_1_C);
end;
if QES4_30_2_A>-4 then do;
  WORK_HISTORY.PERIODSTART(NEWYEAR,4,2)=WEEK(QES4_30_2_A,QES4_30_2_B,QES4_30_2_C);
  WORK_HISTORY.PERIODSTOP(NEWYEAR,4,2)=WEEK(QES4_31_2_A,QES4_31_2_B,QES4_31_2_C);
end;
if QES4_30_3_A>-4 then do;
  WORK_HISTORY.PERIODSTART(NEWYEAR,4,3)=WEEK(QES4_30_3_A,QES4_30_3_B,QES4_30_3_C);
  WORK_HISTORY.PERIODSTOP(NEWYEAR,4,3)=WEEK(QES4_31_3_A,QES4_31_3_B,QES4_31_3_C);
end;
if QES5_30_1_A>-4 then do;
  WORK_HISTORY.PERIODSTART(NEWYEAR,5,1)=WEEK(QES5_30_1_A,QES5_30_1_B,QES5_30_1_C);
  WORK_HISTORY.PERIODSTOP(NEWYEAR,5,1)=WEEK(QES5_31_1_A ,QES5_31_1_B,QES5_31_1_C);
end;
if QES5_30_2_A>-4 then do;
  WORK_HISTORY.PERIODSTART(NEWYEAR,5,2)=WEEK(QES5_30_2_A,QES5_30_2_B,QES5_30_2_C);
  WORK_HISTORY.PERIODSTOP(NEWYEAR,5,2)=WEEK(QES5_31_2_A,QES5_31_2_B,QES5_31_2_C);
end;
if QES5_30_3_A>-4 then do;
  WORK_HISTORY.PERIODSTART(NEWYEAR,5,3)=WEEK(QES5_30_3_A,QES5_30_3_B,QES5_30_3_C);
  WORK_HISTORY.PERIODSTOP(NEWYEAR,5,3)=WEEK(QES5_31_3_A,QES5_31_3_B,QES5_31_3_C);
end;
WORK_HISTORY.REASON(NEWYEAR,1,1)=QES1_33_1C;
WORK_HISTORY.REASON(NEWYEAR,1,2)=QES1_33_2C;
WORK_HISTORY.REASON(NEWYEAR,1,3)=QES1_33_3C;
WORK_HISTORY.REASON(NEWYEAR,2,1)=QES2_33_1C;
WORK_HISTORY.REASON(NEWYEAR,2,2)=QES2_33_2C;
WORK_HISTORY.REASON(NEWYEAR,2,3)=QES2_33_3C;
WORK_HISTORY.REASON(NEWYEAR,3,1)=QES3_33_1C;
WORK_HISTORY.REASON(NEWYEAR,3,2)=QES3_33_2C;
WORK_HISTORY.REASON(NEWYEAR,3,3)=QES3_33_3C;
WORK_HISTORY.REASON(NEWYEAR,4,1)=QES4_33_1C;
WORK_HISTORY.REASON(NEWYEAR,4,2)=QES4_33_2C;
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WORK_HISTORY.REASON(NEWYEAR,4,3)=QES4_33_3C;
WORK_HISTORY.REASON(NEWYEAR,5,1)=QES5_33_1C;
WORK_HISTORY.REASON(NEWYEAR,5,2)=QES5_33_2C;
WORK_HISTORY.REASON(NEWYEAR,5,3)=QES5_33_3C;
WORK_HISTORY.ALL(NEWYEAR,1,1)=QES1_36_1;
WORK_HISTORY.ALL(NEWYEAR,1,2)=QES1_36_2;
WORK_HISTORY.ALL(NEWYEAR,1,3)=QES1_36_3;
WORK_HISTORY.ALL(NEWYEAR,2,1)=QES2_36_1;
WORK_HISTORY.ALL(NEWYEAR,2,2)=QES2_36_2;
WORK_HISTORY.ALL(NEWYEAR,2,3)=QES2_36_3;
WORK_HISTORY.ALL(NEWYEAR,3,1)=QES3_36_1;
WORK_HISTORY.ALL(NEWYEAR,3,2)=QES3_36_2;
WORK_HISTORY.ALL(NEWYEAR,3,3)=QES3_36_3;
WORK_HISTORY.ALL(NEWYEAR,4,1)=QES4_36_1;
WORK_HISTORY.ALL(NEWYEAR,4,2)=QES4_36_2;
WORK_HISTORY.ALL(NEWYEAR,4,3)=QES4_36_3;
WORK_HISTORY.ALL(NEWYEAR,5,1)=QES5_36_1;
WORK_HISTORY.ALL(NEWYEAR,5,2)=QES5_36_2;
WORK_HISTORY.ALL(NEWYEAR,5,3)=QES5_36_3;
WORK_HISTORY.LOOK(NEWYEAR,1,1)=QES1_40_1;
WORK_HISTORY.LOOK(NEWYEAR,1,2)=QES1_40_2;
WORK_HISTORY.LOOK(NEWYEAR,1,3)=QES1_40_3;
WORK_HISTORY.LOOK(NEWYEAR,2,1)=QES2_40_1;
WORK_HISTORY.LOOK(NEWYEAR,2,2)=QES2_40_2;
WORK_HISTORY.LOOK(NEWYEAR,2,3)=QES2_40_3;
WORK_HISTORY.LOOK(NEWYEAR,3,1)=QES3_40_1;
WORK_HISTORY.LOOK(NEWYEAR,3,2)=QES3_40_2;
WORK_HISTORY.LOOK(NEWYEAR,3,3)=QES3_40_3;
WORK_HISTORY.LOOK(NEWYEAR,4,1)=QES4_40_1;
WORK_HISTORY.LOOK(NEWYEAR,4,2)=QES4_40_2;
WORK_HISTORY.LOOK(NEWYEAR,4,3)=QES4_40_3;
WORK_HISTORY.LOOK(NEWYEAR,5,1)=QES5_40_1;
WORK_HISTORY.LOOK(NEWYEAR,5,2)=QES5_40_2;
WORK_HISTORY.LOOK(NEWYEAR,5,3)=QES5_40_3;

/*     extra within job gaps        */
 if QES1_30_4_A>-4 then do;
  WORK_HISTORY.PERIODSTART(NEWYEAR,1,4)=WEEK(QES1_30_4_A,QES1_30_4_B,QES1_30_4_C);
  WORK_HISTORY.PERIODSTOP(NEWYEAR,1,4)=WEEK(QES1_31_4_A,QES1_31_4_B,QES1_31_4_C);
 end;
WORK_HISTORY.REASON(NEWYEAR,1,4)=QES1_33_4C;
WORK_HISTORY.ALL(NEWYEAR,1,4)=QES1_36_4;
WORK_HISTORY.LOOK(NEWYEAR,1,4)=QES1_40_4;
 if QES2_30_4_A>-4 then do;
  WORK_HISTORY.PERIODSTART(NEWYEAR,2,4)=WEEK(QES2_30_4_A,QES2_30_4_B,QES2_30_4_C);
  WORK_HISTORY.PERIODSTOP(NEWYEAR,2,4)=WEEK(QES2_31_4_A,QES2_31_4_B,QES2_31_4_C);
 end;
WORK_HISTORY.REASON(NEWYEAR,2,4)=QES2_33_4C;
WORK_HISTORY.ALL(NEWYEAR,2,4)=QES2_36_4;
WORK_HISTORY.LOOK(NEWYEAR,2,4)=QES2_40_4;
 if QES3_30_4_A>-4 then do;
  WORK_HISTORY.PERIODSTART(NEWYEAR,3,4)=WEEK(QES3_30_4_A,QES3_30_4_B,QES3_30_4_C);
  WORK_HISTORY.PERIODSTOP(NEWYEAR,3,4)=WEEK(QES3_31_4_A,QES3_31_4_B,QES3_31_4_C);
 end;
WORK_HISTORY.REASON(NEWYEAR,3,4)=QES3_33_4C;
WORK_HISTORY.ALL(NEWYEAR,3,4)=QES3_36_4;
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WORK_HISTORY.LOOK(NEWYEAR,3,4)=QES3_40_4;
if QES4_30_4_A>-4 then do;
  WORK_HISTORY.PERIODSTART(NEWYEAR,4,4)=WEEK(QES4_30_4_A,QES4_30_4_B,QES4_30_4_C);
  WORK_HISTORY.PERIODSTOP(NEWYEAR,4,4)=WEEK(QES4_31_4_A,QES4_31_4_B,QES4_31_4_C);
end;
WORK_HISTORY.REASON(NEWYEAR,4,4)=QES4_33_4C;
WORK_HISTORY.ALL(NEWYEAR,4,4)=QES4_36_4;
WORK_HISTORY.LOOK(NEWYEAR,4,4)=QES4_40_4;
if QES5_30_4_A>-4 then do;
  WORK_HISTORY.PERIODSTART(NEWYEAR,5,4)=WEEK(QES5_30_4_A,QES5_30_4_B,QES5_30_4_C);
  WORK_HISTORY.PERIODSTOP(NEWYEAR,5,4)=WEEK(QES5_31_4_A,QES5_31_4_B,QES5_31_4_C);
end;
WORK_HISTORY.REASON(NEWYEAR,5,4)=QES5_33_4C;
WORK_HISTORY.ALL(NEWYEAR,5,4)=QES5_36_4;
WORK_HISTORY.LOOK(NEWYEAR,5,4)=QES5_40_4;
/*   end extra within job gaps         */

if Q7_10_1_A>-4 then do;
  WORK_HISTORY.BSTART(NEWYEAR,1)=WEEK(Q7_10_1_A,Q7_10_1_B,Q7_10_1_C);
  WORK_HISTORY.BSTOP(NEWYEAR,1)=WEEK(Q7_11_1_A,Q7_11_1_B,Q7_11_1_C);
end;
if Q7_10_2_A>-4 then do;
  WORK_HISTORY.BSTART(NEWYEAR,2)=WEEK(Q7_10_2_A,Q7_10_2_B,Q7_10_2_C);
  WORK_HISTORY.BSTOP(NEWYEAR,2)=WEEK(Q7_11_2_A,Q7_11_2_B,Q7_11_2_C);
end;
if Q7_10_3_A>-4 then do;
  WORK_HISTORY.BSTART(NEWYEAR,3)=WEEK(Q7_10_3_A,Q7_10_3_B,Q7_10_3_C);
  WORK_HISTORY.BSTOP(NEWYEAR,3)=WEEK(Q7_11_3_A,Q7_11_3_B,Q7_11_3_C);
end;
if Q7_10_4_A>-4 then do;
  WORK_HISTORY.BSTART(NEWYEAR,4)=WEEK(Q7_10_4_A,Q7_10_4_B,Q7_10_4_C);
  WORK_HISTORY.BSTOP(NEWYEAR,4)=WEEK(Q7_11_4_A,Q7_11_4_B,Q7_11_4_C);
end;
WORK_HISTORY.BALL(NEWYEAR,1)=Q7_12_1;
WORK_HISTORY.BALL(NEWYEAR,2)=Q7_12_2;
WORK_HISTORY.BALL(NEWYEAR,3)=Q7_12_3;
WORK_HISTORY.BALL(NEWYEAR,4)=Q7_12_4;
WORK_HISTORY.BLOOK(NEWYEAR,1)=Q7_16_1;
WORK_HISTORY.BLOOK(NEWYEAR,2)=Q7_16_2;
WORK_HISTORY.BLOOK(NEWYEAR,3)=Q7_16_3;
WORK_HISTORY.BLOOK(NEWYEAR,4)=Q7_16_4;
WORK_HISTORY.BREASON(NEWYEAR,1)=Q7_19_1;
WORK_HISTORY.BREASON(NEWYEAR,2)=Q7_19_2;
WORK_HISTORY.BREASON(NEWYEAR,3)=Q7_19_3;
WORK_HISTORY.BREASON(NEWYEAR,4)=Q7_19_4;

/*     extra between job gaps         */
if Q7_10_5_A>-4 then do;
  WORK_HISTORY.BSTART(NEWYEAR,5)=WEEK(Q7_10_5_A,Q7_10_5_B,Q7_10_5_C);
  WORK_HISTORY.BSTOP(NEWYEAR,5)=WEEK(Q7_11_5_A,Q7_11_5_B,Q7_11_5_C);
end;
WORK_HISTORY.BALL(NEWYEAR,5)=Q7_12_5;
WORK_HISTORY.BLOOK(NEWYEAR,5)=Q7_16_5;
WORK_HISTORY.BREASON(NEWYEAR,5)=Q7_19_5;

if Q7_10_6_A>-4 then do;
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   WORK_HISTORY.BSTART(NEWYEAR,6)=WEEK(Q7_10_6_A,Q7_10_6_B,Q7_10_6_C);
   WORK_HISTORY.BSTOP(NEWYEAR,6)=WEEK(Q7_11_6_A,Q7_11_6_B,Q7_11_6_C);
 end;
 WORK_HISTORY.BALL(NEWYEAR,6)=Q7_12_6;
 WORK_HISTORY.BLOOK(NEWYEAR,6)=Q7_16_6;
 WORK_HISTORY.BREASON(NEWYEAR,6)=Q7_19_6;
/*    end extra between job gaps       */

 CURAMIL = 0;
 if (Q4_5A = 1) | (Q4_11 = 1) then CURAMIL = 1;
 if (Q4_1A = 0) | (Q4_1B=1 & OMILCODE>=1 & OMILCODE<=4) then do;
   if CURAMIL=1 then WORK_HISTORY.MSTOP1(NEWYEAR)=WORK_HISTORY.INT(NEWYEAR);
   else WORK_HISTORY.MSTOP1(NEWYEAR)=WEEK(Q4_6A_A,Q4_6A_B,Q4_6A_C);
   WORK_HISTORY.MSTART1(NEWYEAR)=WORK_HISTORY.LASTINT(NEWYEAR);
   if WORK_HISTORY.MSTART1(NEWYEAR)>=0 & WORK_HISTORY.MSTOP1(NEWYEAR)>=
     WORK_HISTORY.MSTART1(NEWYEAR) then
     call FILL(WORK_HISTORY.MSTART1(NEWYEAR),WORK_HISTORY.MSTOP1(NEWYEAR),7,0);
 end;
 if (((Q4_9=1 | Q4_9=3) & (Q4_9A=1 | (Q4_9A=4 & (Q4_9A1=1 | Q4_9A1=4)))) |
   ((Q4_9=2 | Q4_9=4) & (Q4_9B=1 | (Q4_9B=4 & (Q4_9B1=1 | Q4_9B1=4)))))
   then do;
   if Q4_10=1 then do;
     WORK_HISTORY.MSTART2(NEWYEAR)=WEEK(Q4_11B_A,Q4_11B_B,Q4_11B_C);
     WORK_HISTORY.MSTOP2(NEWYEAR)=WORK_HISTORY.INT(NEWYEAR);
   end;
   else if Q4_12=1 then do;
     WORK_HISTORY.MSTART2(NEWYEAR)=WEEK(Q4_12MC,Q4_12DC,Q4_12YC);
     WORK_HISTORY.MSTOP2(NEWYEAR)=WEEK(Q4_13_AC,Q4_13_BC,Q4_13_CC);
   end;
   if WORK_HISTORY.MSTART2(NEWYEAR)>=0 & WORK_HISTORY.MSTOP2(NEWYEAR)>=
     WORK_HISTORY.MSTART2(NEWYEAR) then
     call FILL(WORK_HISTORY.MSTART2(NEWYEAR), WORK_HISTORY.MSTOP2(NEWYEAR),7,0);
 end;
 if WORK_HISTORY.MSTART1(NEWYEAR)>-4 | WORK_HISTORY.MSTART2(NEWYEAR)>-4 |
 WORK_HISTORY.MSTOP1(NEWYEAR)>-4 | WORK_HISTORY.MSTOP2(NEWYEAR)>-4 then do;
   if WORK_HISTORY.MSTART1(NEWYEAR)=-3 | WORK_HISTORY.MSTART2(NEWYEAR)=-3 |
         WORK_HISTORY.MSTOP1(NEWYEAR)=-3 | WORK_HISTORY.MSTOP2(NEWYEAR)=-3 then
         do;
     WORK_HISTORY.MILWKSL(NEWYEAR)=-3;
     WORK_HISTORY.MILWKSC(NEWYEAR)=-3;
   end;
 /*  else if WORK_HISTORY.MSTART1(NEWYEAR) > WORK_HISTORY.MSTOP1(NEWYEAR) |
    WORK_HISTORY.MSTART2(NEWYEAR) > WORK_HISTORY.MSTOP2(NEWYEAR) then do;
     WORK_HISTORY.MILWKSL(NEWYEAR)=-3;
     WORK_HISTORY.MILWKSC(NEWYEAR)=-3;
   end; */
   else do;
     WORK_HISTORY.MILWKSL(NEWYEAR)=0;
     WORK_HISTORY.MILWKSC(NEWYEAR)=0;
     if WORK_HISTORY.MSTART1(NEWYEAR)>=0 then WORK_HISTORY.MILWKSL(NEWYEAR)=
       WORK_HISTORY.MSTOP1(NEWYEAR) - WORK_HISTORY.MSTART1(NEWYEAR) + 1;
     if WORK_HISTORY.MSTART2(NEWYEAR)>=0 then WORK_HISTORY.MILWKSL(NEWYEAR)=
       WORK_HISTORY.MILWKSL(NEWYEAR) + WORK_HISTORY.MSTOP2(NEWYEAR) -
       WORK_HISTORY.MSTART2(NEWYEAR) + 1;
     WORK_HISTORY.MILWKSL(NEWYEAR)= FLOOR(WORK_HISTORY.MILWKSL(NEWYEAR)+.5);
   end;
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end;

 /*    additional jobs / employment supplement          */
  WORK_HISTORY.STARTM(NEWYEAR,6)=QES6_8MC;
  WORK_HISTORY.STARTD(NEWYEAR,6)=QES6_8DC;
  WORK_HISTORY.STARTY(NEWYEAR,6)=QES6_8YC;
  WORK_HISTORY.STARTM(NEWYEAR,7)=QES7_8MC;
  WORK_HISTORY.STARTD(NEWYEAR,7)=QES7_8DC;
  WORK_HISTORY.STARTY(NEWYEAR,7)=QES7_8YC;
  WORK_HISTORY.STARTM(NEWYEAR,8)=QES8_8MC;
  WORK_HISTORY.STARTD(NEWYEAR,8)=QES8_8DC;
  WORK_HISTORY.STARTY(NEWYEAR,8)=QES8_8YC;
  WORK_HISTORY.STARTM(NEWYEAR,9)=QES9_8MC;
  WORK_HISTORY.STARTD(NEWYEAR,9)=QES9_8DC;
  WORK_HISTORY.STARTY(NEWYEAR,9)=QES9_8YC;
  WORK_HISTORY.STARTM(NEWYEAR,10)=ES10_8MC;
  WORK_HISTORY.STARTD(NEWYEAR,10)=ES10_8DC;
  WORK_HISTORY.STARTY(NEWYEAR,10)=ES10_8YC;
  WORK_HISTORY.STOPM(NEWYEAR,6)=QES6_26_A;
  WORK_HISTORY.STOPD(NEWYEAR,6)=QES6_26_B;
  WORK_HISTORY.STOPY(NEWYEAR,6)=QES6_26_C;
  WORK_HISTORY.STOPM(NEWYEAR,7)=QES7_26_A;
  WORK_HISTORY.STOPD(NEWYEAR,7)=QES7_26_B;
  WORK_HISTORY.STOPY(NEWYEAR,7)=QES7_26_C;
  WORK_HISTORY.STOPM(NEWYEAR,8)=QES8_26_A;
  WORK_HISTORY.STOPD(NEWYEAR,8)=QES8_26_B;
  WORK_HISTORY.STOPY(NEWYEAR,8)=QES8_26_C;
  WORK_HISTORY.STOPM(NEWYEAR,9)=QES9_26_A;
  WORK_HISTORY.STOPD(NEWYEAR,9)=QES9_26_B;
  WORK_HISTORY.STOPY(NEWYEAR,9)=QES9_26_C;
  WORK_HISTORY.STOPM(NEWYEAR,10)=ES10_26_A;
  WORK_HISTORY.STOPD(NEWYEAR,10)=ES10_26_B;
  WORK_HISTORY.STOPY(NEWYEAR,10)=ES10_26_C;
  WORK_HISTORY.PREVIOUSEMP#(NEWYEAR,6)=EID6;
  WORK_HISTORY.PREVIOUSEMP#(NEWYEAR,7)=EID7;
  WORK_HISTORY.PREVIOUSEMP#(NEWYEAR,8)=EID8;
  WORK_HISTORY.PREVIOUSEMP#(NEWYEAR,9)=EID9;
  WORK_HISTORY.PREVIOUSEMP#(NEWYEAR,10)=EID10;
  WORK_HISTORY.PRETEN(NEWYEAR,6)=QES6_6;
  WORK_HISTORY.PRETEN(NEWYEAR,7)=QES7_6;
  WORK_HISTORY.PRETEN(NEWYEAR,8)=QES8_6;
  WORK_HISTORY.PRETEN(NEWYEAR,9)=QES9_6;
  WORK_HISTORY.PRETEN(NEWYEAR,10)=ES10_6;

if (QES6_55Dc=1 & (QES6_56Ka ^= -4 | QES6_56Kb ^= -4 | QES6_56Kc ^= -4)) then do;
  WORK_HISTORY.INDUSTRY(NEWYEAR,6)=QES6_56Ka;
  WORK_HISTORY.OCCUPATION(NEWYEAR,6)=QES6_56Kb;
  WORK_HISTORY.CLASSWORKER(NEWYEAR,6)=QES6_56Kc;
end;
else if (QES6_55Dc=1 & QES6_56Ka = -4 & QES6_56Kb = -4 & QES6_56Kc = -4
  & (QES6_55E ^= -4 | QES6_55H ^= -4 | QES6_56B ^= -4 | QES6_56C ^= -4)) then do;
  WORK_HISTORY.INDUSTRY(NEWYEAR,6)=QES6_55E;
  WORK_HISTORY.OCCUPATION(NEWYEAR,6)=QES6_55H;
  if QES6_56A=1 then WORK_HISTORY.CLASSWORKER(NEWYEAR,6)=QES6_56C;
  else if QES6_56A=0 then WORK_HISTORY.CLASSWORKER(NEWYEAR,6)=QES6_56B;
  else if QES6_56B=-4 & QES6_56C=-4 then WORK_HISTORY.CLASSWORKER(NEWYEAR,6)=-3;
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end;
else do;
   WORK_HISTORY.INDUSTRY(NEWYEAR,6)=QES6_55E;
   WORK_HISTORY.OCCUPATION(NEWYEAR,6)=QES6_55H;
   if QES6_56A=1 then WORK_HISTORY.CLASSWORKER(NEWYEAR,6)=QES6_56C;
   else if QES6_56A=0 then WORK_HISTORY.CLASSWORKER(NEWYEAR,6)=QES6_56B;
end;
if QES6_52D=-4 then WORK_HISTORY.HOURSWEEK(NEWYEAR,6)=QES6_52A;
 else if QES6_52D^=-4 then WORK_HISTORY.HOURSWEEK(NEWYEAR,6)=QES6_52D;

if (QES7_55Dc=1 & (QES7_56Ka ^= -4 | QES7_56Kb ^= -4 | QES7_56Kc ^= -4)) then do;
   WORK_HISTORY.INDUSTRY(NEWYEAR,7)=QES7_56Ka;
   WORK_HISTORY.OCCUPATION(NEWYEAR,7)=QES7_56Kb;
   WORK_HISTORY.CLASSWORKER(NEWYEAR,7)=QES7_56Kc;
end;
else if (QES7_55Dc=1 & QES7_56Ka = -4 & QES7_56Kb = -4 & QES7_56Kc = -4
   & (QES7_55E ^= -4 | QES7_55H ^= -4 | QES7_56B ^= -4 | QES7_56C ^= -4)) then do;
   WORK_HISTORY.INDUSTRY(NEWYEAR,7)=QES7_55E;
   WORK_HISTORY.OCCUPATION(NEWYEAR,7)=QES7_55H;
   if QES7_56A=1 then WORK_HISTORY.CLASSWORKER(NEWYEAR,7)=QES7_56C;
   else if QES7_56A=0 then WORK_HISTORY.CLASSWORKER(NEWYEAR,7)=QES7_56B;
   else if QES7_56B=-4 & QES7_56C=-4 then WORK_HISTORY.CLASSWORKER(NEWYEAR,7)=-3;
end;
else do;
   WORK_HISTORY.INDUSTRY(NEWYEAR,7)=QES7_55E;
   WORK_HISTORY.OCCUPATION(NEWYEAR,7)=QES7_55H;
   if QES7_56A=1 then WORK_HISTORY.CLASSWORKER(NEWYEAR,7)=QES7_56C;
   else if QES7_56A=0 then WORK_HISTORY.CLASSWORKER(NEWYEAR,7)=QES7_56B;
end;
if QES7_52D=-4 then WORK_HISTORY.HOURSWEEK(NEWYEAR,7)=QES7_52A;
 else if QES7_52D^=-4 then WORK_HISTORY.HOURSWEEK(NEWYEAR,7)=QES7_52D;

if (QES8_55Dc=1 & (QES8_56Ka ^= -4 | QES8_56Kb ^= -4 | QES8_56Kc ^= -4)) then do;
   WORK_HISTORY.INDUSTRY(NEWYEAR,8)=QES8_56Ka;
   WORK_HISTORY.OCCUPATION(NEWYEAR,8)=QES8_56Kb;
   WORK_HISTORY.CLASSWORKER(NEWYEAR,8)=QES8_56Kc;
end;
else if (QES8_55Dc=1 & QES8_56Ka = -4 & QES8_56Kb = -4 & QES8_56Kc = -4
   & (QES8_55E ^= -4 | QES8_55H ^= -4 | QES8_56B ^= -4 | QES8_56C ^= -4)) then do;
   WORK_HISTORY.INDUSTRY(NEWYEAR,8)=QES8_55E;
   WORK_HISTORY.OCCUPATION(NEWYEAR,8)=QES8_55H;
   if QES8_56A=1 then WORK_HISTORY.CLASSWORKER(NEWYEAR,8)=QES8_56C;
   else if QES8_56A=0 then WORK_HISTORY.CLASSWORKER(NEWYEAR,8)=QES8_56B;
   else if QES8_56B=-4 & QES8_56C=-4 then WORK_HISTORY.CLASSWORKER(NEWYEAR,8)=-3;
end;
else do;
   WORK_HISTORY.INDUSTRY(NEWYEAR,8)=QES8_55E;
   WORK_HISTORY.OCCUPATION(NEWYEAR,8)=QES8_55H;
   if QES8_56A=1 then WORK_HISTORY.CLASSWORKER(NEWYEAR,8)=QES8_56C;
   else if QES8_56A=0 then WORK_HISTORY.CLASSWORKER(NEWYEAR,8)=QES8_56B;
end;
if QES8_52D=-4 then WORK_HISTORY.HOURSWEEK(NEWYEAR,8)=QES8_52A;
 else if QES8_52D^=-4 then WORK_HISTORY.HOURSWEEK(NEWYEAR,8)=QES8_52D;

if (QES9_55Dc=1 & (QES9_56Ka ^= -4 | QES9_56Kb ^= -4 | QES9_56Kc ^= -4)) then do;
   WORK_HISTORY.INDUSTRY(NEWYEAR,9)=QES9_56Ka;
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    WORK_HISTORY.OCCUPATION(NEWYEAR,9)=QES9_56Kb;
    WORK_HISTORY.CLASSWORKER(NEWYEAR,9)=QES9_56Kc;
  end;
  else if (QES9_55Dc=1 & QES9_56Ka = -4 & QES9_56Kb = -4 & QES9_56Kc = -4
    & (QES9_55E ^= -4 | QES9_55H ^= -4 | QES9_56B ^= -4 | QES9_56C ^= -4)) then do;
    WORK_HISTORY.INDUSTRY(NEWYEAR,9)=QES9_55E;
    WORK_HISTORY.OCCUPATION(NEWYEAR,9)=QES9_55H;
    if QES9_56A=1 then WORK_HISTORY.CLASSWORKER(NEWYEAR,9)=QES9_56C;
    else if QES9_56A=0 then WORK_HISTORY.CLASSWORKER(NEWYEAR,9)=QES9_56B;
    else if QES9_56B=-4 & QES9_56C=-4 then WORK_HISTORY.CLASSWORKER(NEWYEAR,9)=-3;
  end;
  else do;
    WORK_HISTORY.INDUSTRY(NEWYEAR,9)=QES9_55E;
    WORK_HISTORY.OCCUPATION(NEWYEAR,9)=QES9_55H;
    if QES9_56A=1 then WORK_HISTORY.CLASSWORKER(NEWYEAR,9)=QES9_56C;
    else if QES9_56A=0 then WORK_HISTORY.CLASSWORKER(NEWYEAR,9)=QES9_56B;
  end;
  if QES9_52D=-4 then WORK_HISTORY.HOURSWEEK(NEWYEAR,9)=QES9_52A;
  else if QES9_52D^=-4 then WORK_HISTORY.HOURSWEEK(NEWYEAR,9)=QES9_52D;

  if (ES10_55Dc=1 & (ES10_56Ka ^= -4 | ES10_56Kb ^= -4 | ES10_56Kc ^= -4)) then do;
    WORK_HISTORY.INDUSTRY(NEWYEAR,10)=ES10_56Ka;
    WORK_HISTORY.OCCUPATION(NEWYEAR,10)=ES10_56Kb;
    WORK_HISTORY.CLASSWORKER(NEWYEAR,10)=ES10_56Kc;
  end;
  else if (ES10_55Dc=1 & ES10_56Ka = -4 & ES10_56Kb = -4 & ES10_56Kc = -4
    & (ES10_55E ^= -4 | ES10_55H ^= -4 | ES10_56B ^= -4 | ES10_56C ^= -4)) then do;
    WORK_HISTORY.INDUSTRY(NEWYEAR,10)=ES10_55E;
    WORK_HISTORY.OCCUPATION(NEWYEAR,10)=ES10_55H;
    if ES10_56A=1 then WORK_HISTORY.CLASSWORKER(NEWYEAR,10)=ES10_56C;
    else if ES10_56A=0 then WORK_HISTORY.CLASSWORKER(NEWYEAR,10)=ES10_56B;
    else if ES10_56B=-4 & ES10_56C=-4 then WORK_HISTORY.CLASSWORKER(NEWYEAR,10)=-3;
  end;
  else do;
    WORK_HISTORY.INDUSTRY(NEWYEAR,10)=ES10_55E;
    WORK_HISTORY.OCCUPATION(NEWYEAR,10)=ES10_55H;
    if ES10_56A=1 then WORK_HISTORY.CLASSWORKER(NEWYEAR,10)=ES10_56C;
    else if ES10_56A=0 then WORK_HISTORY.CLASSWORKER(NEWYEAR,10)=ES10_56B;
  end;
  if ES10_52D=-4 then WORK_HISTORY.HOURSWEEK(NEWYEAR,10)=ES10_52A;
  else if ES10_52D^=-4 then WORK_HISTORY.HOURSWEEK(NEWYEAR,10)=ES10_52D;

    WORK_HISTORY.HOURDAY(NEWYEAR,6)=QES6_51;
    WORK_HISTORY.HOURDAY(NEWYEAR,7)=QES7_51;
    WORK_HISTORY.HOURDAY(NEWYEAR,8)=QES8_51;
    WORK_HISTORY.HOURDAY(NEWYEAR,9)=QES9_51;
    WORK_HISTORY.HOURDAY(NEWYEAR,10)=ES10_51;
    WORK_HISTORY.PAYRATE(NEWYEAR,6)=PAYRATE6;
    WORK_HISTORY.PAYRATE(NEWYEAR,7)=PAYRATE7;
    WORK_HISTORY.PAYRATE(NEWYEAR,8)=PAYRATE8;
    WORK_HISTORY.PAYRATE(NEWYEAR,9)=PAYRATE9;
    WORK_HISTORY.PAYRATE(NEWYEAR,10)=PAYRATE10;
    WORK_HISTORY.TIMERATE(NEWYEAR,6)=QES6_71A;
    WORK_HISTORY.TIMERATE(NEWYEAR,7)=QES7_71A;
    WORK_HISTORY.TIMERATE(NEWYEAR,8)=QES8_71A;
    WORK_HISTORY.TIMERATE(NEWYEAR,9)=QES9_71A;
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WORK_HISTORY.TIMERATE(NEWYEAR,10)=ES10_71A;
WORK_HISTORY.UNION(NEWYEAR,6)=QES6_88B;
WORK_HISTORY.UNION(NEWYEAR,7)=QES7_88B;
WORK_HISTORY.UNION(NEWYEAR,8)=QES8_88B;
WORK_HISTORY.UNION(NEWYEAR,9)=QES9_88B;
WORK_HISTORY.UNION(NEWYEAR,10)=ES10_88B;
WORK_HISTORY.GOVTJOB(NEWYEAR,6)=-4;
WORK_HISTORY.GOVTJOB(NEWYEAR,7)=-4;
WORK_HISTORY.GOVTJOB(NEWYEAR,8)=-4;
WORK_HISTORY.GOVTJOB(NEWYEAR,9)=-4;
WORK_HISTORY.GOVTJOB(NEWYEAR,10)=-4;
if QES6_8MC>-4 then do;
  WORK_HISTORY.START(NEWYEAR,6)=WEEK(QES6_8MC,QES6_8DC,QES6_8YC);
  WORK_HISTORY.STOP(NEWYEAR,6)=WEEK(QES6_26_A,QES6_26_B,QES6_26_C);
        end;
if QES7_8MC>-4 then do;
  WORK_HISTORY.START(NEWYEAR,7)=WEEK(QES7_8MC,QES7_8DC,QES7_8YC);
  WORK_HISTORY.STOP(NEWYEAR,7)=WEEK(QES7_26_A,QES7_26_B,QES7_26_C);
        end;
if QES8_8MC>-4 then do;
  WORK_HISTORY.START(NEWYEAR,8)=WEEK(QES8_8MC,QES8_8DC,QES8_8YC);
  WORK_HISTORY.STOP(NEWYEAR,8)=WEEK(QES8_26_A,QES8_26_B,QES8_26_C);
        end;
if QES9_8MC>-4 then do;
  WORK_HISTORY.START(NEWYEAR,9)=WEEK(QES9_8MC,QES9_8DC,QES9_8YC);
  WORK_HISTORY.STOP(NEWYEAR,9)=WEEK(QES9_26_A,QES9_26_B,QES9_26_C);
        end;
if ES10_8MC>-4 then do;
  WORK_HISTORY.START(NEWYEAR,10)=WEEK(ES10_8MC,ES10_8DC,ES10_8YC);
  WORK_HISTORY.STOP(NEWYEAR,10)=WEEK(ES10_26_A,ES10_26_B,ES10_26_C);
        end;

WORK_HISTORY.PAST(NEWYEAR,6)=QES6_4B;
WORK_HISTORY.PAST(NEWYEAR,7)=QES7_4B;
WORK_HISTORY.PAST(NEWYEAR,8)=QES8_4B;
WORK_HISTORY.PAST(NEWYEAR,9)=QES9_4B;
WORK_HISTORY.PAST(NEWYEAR,10)=ES10_4B;
WORK_HISTORY.CURRENT(NEWYEAR,6)=QES6_23;
WORK_HISTORY.CURRENT(NEWYEAR,7)=QES7_23;
WORK_HISTORY.CURRENT(NEWYEAR,8)=QES8_23;
WORK_HISTORY.CURRENT(NEWYEAR,9)=QES9_23;
WORK_HISTORY.CURRENT(NEWYEAR,10)=ES10_23;
WORK_HISTORY.WHYLEFT(NEWYEAR,6)=QES6_23A;
WORK_HISTORY.WHYLEFT(NEWYEAR,7)=QES7_23A;
WORK_HISTORY.WHYLEFT(NEWYEAR,8)=QES8_23A;
WORK_HISTORY.WHYLEFT(NEWYEAR,9)=QES9_23A;
WORK_HISTORY.WHYLEFT(NEWYEAR,10)=ES10_23A;
WORK_HISTORY.WEEKSNOTWORKED(NEWYEAR,6)=QES6_28;
WORK_HISTORY.WEEKSNOTWORKED(NEWYEAR,7)=QES7_28;
WORK_HISTORY.WEEKSNOTWORKED(NEWYEAR,8)=QES8_28;
WORK_HISTORY.WEEKSNOTWORKED(NEWYEAR,9)=QES9_28;
WORK_HISTORY.WEEKSNOTWORKED(NEWYEAR,10)=ES10_28;
WORK_HISTORY.CPSJOB(NEWYEAR,6)=0;
WORK_HISTORY.CPSJOB(NEWYEAR,7)=0;
WORK_HISTORY.CPSJOB(NEWYEAR,8)=0;
WORK_HISTORY.CPSJOB(NEWYEAR,9)=0;
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WORK_HISTORY.CPSJOB(NEWYEAR,10)=0;

if QES6_30_1_A>-4 then do;
  WORK_HISTORY.PERIODSTART(NEWYEAR,6,1)=
  WEEK(QES6_30_1_A,QES6_30_1_B,QES6_30_1_C);
  WORK_HISTORY.PERIODSTOP(NEWYEAR,6,1)=
  WEEK(QES6_31_1_A ,QES6_31_1_B,QES6_31_1_C);
end;
WORK_HISTORY.REASON(NEWYEAR,6,1)=QES6_33_1C;
WORK_HISTORY.ALL(NEWYEAR,6,1)=QES6_36_1;
WORK_HISTORY.LOOK(NEWYEAR,6,1)=QES6_40_1;
if QES6_30_2_A>-4 then do;
  WORK_HISTORY.PERIODSTART(NEWYEAR,6,2)=
  WEEK(QES6_30_2_A,QES6_30_2_B,QES6_30_2_C);
  WORK_HISTORY.PERIODSTOP(NEWYEAR,6,2)=
  WEEK(QES6_31_2_A,QES6_31_2_B,QES6_31_2_C);
end;
WORK_HISTORY.REASON(NEWYEAR,6,2)=QES6_33_2C;
WORK_HISTORY.ALL(NEWYEAR,6,2)=QES6_36_2;
WORK_HISTORY.LOOK(NEWYEAR,6,2)=QES6_40_2;
if QES6_30_3_A>-4 then do;
  WORK_HISTORY.PERIODSTART(NEWYEAR,6,3)=
  WEEK(QES6_30_3_A,QES6_30_3_B,QES6_30_3_C);
  WORK_HISTORY.PERIODSTOP(NEWYEAR,6,3)=
  WEEK(QES6_31_3_A,QES6_31_3_B,QES6_31_3_C);
end;
WORK_HISTORY.REASON(NEWYEAR,6,3)=QES6_33_3C;
WORK_HISTORY.ALL(NEWYEAR,6,3)=QES6_36_3;
WORK_HISTORY.LOOK(NEWYEAR,6,3)=QES6_40_3;
if QES6_30_4_A>-4 then do;
  WORK_HISTORY.PERIODSTART(NEWYEAR,6,4)=
  WEEK(QES6_30_4_A,QES6_30_4_B,QES6_30_4_C);
  WORK_HISTORY.PERIODSTOP(NEWYEAR,6,4)=
  WEEK(QES6_31_4_A,QES6_31_4_B,QES6_31_4_C);
end;
WORK_HISTORY.REASON(NEWYEAR,6,4)=QES6_33_4C;
WORK_HISTORY.ALL(NEWYEAR,6,4)=QES6_36_4;
WORK_HISTORY.LOOK(NEWYEAR,6,4)=QES6_40_4;

if QES7_30_1_A>-4 then do;
  WORK_HISTORY.PERIODSTART(NEWYEAR,7,1)=
  WEEK(QES7_30_1_A,QES7_30_1_B,QES7_30_1_C);
  WORK_HISTORY.PERIODSTOP(NEWYEAR,7,1)=
  WEEK(QES7_31_1_A ,QES7_31_1_B,QES7_31_1_C);
end;
WORK_HISTORY.REASON(NEWYEAR,7,1)=QES7_33_1C;
WORK_HISTORY.ALL(NEWYEAR,7,1)=QES7_36_1;
WORK_HISTORY.LOOK(NEWYEAR,7,1)=QES7_40_1;
if QES7_30_2_A>-4 then do;
  WORK_HISTORY.PERIODSTART(NEWYEAR,7,2)=
  WEEK(QES7_30_2_A,QES7_30_2_B,QES7_30_2_C);
  WORK_HISTORY.PERIODSTOP(NEWYEAR,7,2)=
  WEEK(QES7_31_2_A,QES7_31_2_B,QES7_31_2_C);
end;
WORK_HISTORY.REASON(NEWYEAR,7,2)=QES7_33_2C;
WORK_HISTORY.ALL(NEWYEAR,7,2)=QES7_36_2;
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WORK_HISTORY.LOOK(NEWYEAR,7,2)=QES7_40_2;
if QES7_30_3_A>-4 then do;
  WORK_HISTORY.PERIODSTART(NEWYEAR,7,3)=
  WEEK(QES7_30_3_A,QES7_30_3_B,QES7_30_3_C);
  WORK_HISTORY.PERIODSTOP(NEWYEAR,7,3)=
  WEEK(QES7_31_3_A,QES7_31_3_B,QES7_31_3_C);
end;
WORK_HISTORY.REASON(NEWYEAR,7,3)=QES7_33_3C;
WORK_HISTORY.ALL(NEWYEAR,7,3)=QES7_36_3;
WORK_HISTORY.LOOK(NEWYEAR,7,3)=QES7_40_3;
if QES7_30_4_A>-4 then do;
  WORK_HISTORY.PERIODSTART(NEWYEAR,7,4)=
  WEEK(QES7_30_4_A,QES7_30_4_B,QES7_30_4_C);
  WORK_HISTORY.PERIODSTOP(NEWYEAR,7,4)=
  WEEK(QES7_31_4_A,QES7_31_4_B,QES7_31_4_C);
end;
WORK_HISTORY.REASON(NEWYEAR,7,4)=QES7_33_4C;
WORK_HISTORY.ALL(NEWYEAR,7,4)=QES7_36_4;
WORK_HISTORY.LOOK(NEWYEAR,7,4)=QES7_40_4;

if QES8_30_1_A>-4 then do;
  WORK_HISTORY.PERIODSTART(NEWYEAR,8,1)=
  WEEK(QES8_30_1_A,QES8_30_1_B,QES8_30_1_C);
  WORK_HISTORY.PERIODSTOP(NEWYEAR,8,1)=
  WEEK(QES8_31_1_A ,QES8_31_1_B,QES8_31_1_C);
end;
WORK_HISTORY.REASON(NEWYEAR,8,1)=QES8_33_1C;
WORK_HISTORY.ALL(NEWYEAR,8,1)=QES8_36_1;
WORK_HISTORY.LOOK(NEWYEAR,8,1)=QES8_40_1;
if QES8_30_2_A>-4 then do;
  WORK_HISTORY.PERIODSTART(NEWYEAR,8,2)=
  WEEK(QES8_30_2_A,QES8_30_2_B,QES8_30_2_C);
  WORK_HISTORY.PERIODSTOP(NEWYEAR,8,2)=
  WEEK(QES8_31_2_A,QES8_31_2_B,QES8_31_2_C);
end;
WORK_HISTORY.REASON(NEWYEAR,8,2)=QES8_33_2C;
WORK_HISTORY.ALL(NEWYEAR,8,2)=QES8_36_2;
WORK_HISTORY.LOOK(NEWYEAR,8,2)=QES8_40_2;
if QES8_30_3_A>-4 then do;
  WORK_HISTORY.PERIODSTART(NEWYEAR,8,3)=
  WEEK(QES8_30_3_A,QES8_30_3_B,QES8_30_3_C);
  WORK_HISTORY.PERIODSTOP(NEWYEAR,8,3)=
  WEEK(QES8_31_3_A,QES8_31_3_B,QES8_31_3_C);
end;
WORK_HISTORY.REASON(NEWYEAR,8,3)=QES8_33_3C;
WORK_HISTORY.ALL(NEWYEAR,8,3)=QES8_36_3;
WORK_HISTORY.LOOK(NEWYEAR,8,3)=QES8_40_3;
if QES8_30_4_A>-4 then do;
  WORK_HISTORY.PERIODSTART(NEWYEAR,8,4)=
  WEEK(QES8_30_4_A,QES8_30_4_B,QES8_30_4_C);
  WORK_HISTORY.PERIODSTOP(NEWYEAR,8,4)=
  WEEK(QES8_31_4_A,QES8_31_4_B,QES8_31_4_C);
end;
WORK_HISTORY.REASON(NEWYEAR,8,4)=QES8_33_4C;
WORK_HISTORY.ALL(NEWYEAR,8,4)=QES8_36_4;
WORK_HISTORY.LOOK(NEWYEAR,8,4)=QES8_40_4;
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if QES9_30_1_A>-4 then do;
  WORK_HISTORY.PERIODSTART(NEWYEAR,9,1)=
  WEEK(QES9_30_1_A,QES9_30_1_B,QES9_30_1_C);
  WORK_HISTORY.PERIODSTOP(NEWYEAR,9,1)=
  WEEK(QES9_31_1_A ,QES9_31_1_B,QES9_31_1_C);
end;
WORK_HISTORY.REASON(NEWYEAR,9,1)=QES9_33_1C;
WORK_HISTORY.ALL(NEWYEAR,9,1)=QES9_36_1;
WORK_HISTORY.LOOK(NEWYEAR,9,1)=QES9_40_1;
if QES9_30_2_A>-4 then do;
  WORK_HISTORY.PERIODSTART(NEWYEAR,9,2)=
  WEEK(QES9_30_2_A,QES9_30_2_B,QES9_30_2_C);
  WORK_HISTORY.PERIODSTOP(NEWYEAR,9,2)=
  WEEK(QES9_31_2_A,QES9_31_2_B,QES9_31_2_C);
end;
WORK_HISTORY.REASON(NEWYEAR,9,2)=QES9_33_2C;
WORK_HISTORY.ALL(NEWYEAR,9,2)=QES9_36_2;
WORK_HISTORY.LOOK(NEWYEAR,9,2)=QES9_40_2;
if QES9_30_3_A>-4 then do;
  WORK_HISTORY.PERIODSTART(NEWYEAR,9,3)=
  WEEK(QES9_30_3_A,QES9_30_3_B,QES9_30_3_C);
  WORK_HISTORY.PERIODSTOP(NEWYEAR,9,3)=
  WEEK(QES9_31_3_A,QES9_31_3_B,QES9_31_3_C);
end;
WORK_HISTORY.REASON(NEWYEAR,9,3)=QES9_33_3C;
WORK_HISTORY.ALL(NEWYEAR,9,3)=QES9_36_3;
WORK_HISTORY.LOOK(NEWYEAR,9,3)=QES9_40_3;
if QES9_30_4_A>-4 then do;
  WORK_HISTORY.PERIODSTART(NEWYEAR,9,4)=
  WEEK(QES9_30_4_A,QES9_30_4_B,QES9_30_4_C);
  WORK_HISTORY.PERIODSTOP(NEWYEAR,9,4)=
  WEEK(QES9_31_4_A,QES9_31_4_B,QES9_31_4_C);
end;
WORK_HISTORY.REASON(NEWYEAR,9,4)=QES9_33_4C;
WORK_HISTORY.ALL(NEWYEAR,9,4)=QES9_36_4;
WORK_HISTORY.LOOK(NEWYEAR,9,4)=QES9_40_4;

if ES10_30_1_A>-4 then do;
  WORK_HISTORY.PERIODSTART(NEWYEAR,10,1)=
  WEEK(ES10_30_1_A,ES10_30_1_B,ES10_30_1_C);
  WORK_HISTORY.PERIODSTOP(NEWYEAR,10,1)=
  WEEK(ES10_31_1_A ,ES10_31_1_B,ES10_31_1_C);
end;
WORK_HISTORY.REASON(NEWYEAR,10,1)=ES10_33_1C;
WORK_HISTORY.ALL(NEWYEAR,10,1)=ES10_36_1;
WORK_HISTORY.LOOK(NEWYEAR,10,1)=ES10_40_1;
if ES10_30_2_A>-4 then do;
  WORK_HISTORY.PERIODSTART(NEWYEAR,10,2)=
  WEEK(ES10_30_2_A,ES10_30_2_B,ES10_30_2_C);
  WORK_HISTORY.PERIODSTOP(NEWYEAR,10,2)=
  WEEK(ES10_31_2_A,ES10_31_2_B,ES10_31_2_C);
end;
WORK_HISTORY.REASON(NEWYEAR,10,2)=ES10_33_2C;
WORK_HISTORY.ALL(NEWYEAR,10,2)=ES10_36_2;
WORK_HISTORY.LOOK(NEWYEAR,10,2)=ES10_40_2;
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 if ES10_30_3_A>-4 then do;
   WORK_HISTORY.PERIODSTART(NEWYEAR,10,3)=
    WEEK(ES10_30_3_A,ES10_30_3_B,ES10_30_3_C);
    WORK_HISTORY.PERIODSTOP(NEWYEAR,10,3)=
    WEEK(ES10_31_3_A,ES10_31_3_B,ES10_31_3_C);
  end;
  WORK_HISTORY.REASON(NEWYEAR,10,3)=ES10_33_3C;
  WORK_HISTORY.ALL(NEWYEAR,10,3)=ES10_36_3;
  WORK_HISTORY.LOOK(NEWYEAR,10,3)=ES10_40_3;
 if ES10_30_4_A>-4 then do;
   WORK_HISTORY.PERIODSTART(NEWYEAR,10,4)=
    WEEK(ES10_30_4_A,ES10_30_4_B,ES10_30_4_C);
    WORK_HISTORY.PERIODSTOP(NEWYEAR,10,4)=
    WEEK(ES10_31_4_A,ES10_31_4_B,ES10_31_4_C);
  end;
  WORK_HISTORY.REASON(NEWYEAR,10,4)=ES10_33_4C;
  WORK_HISTORY.ALL(NEWYEAR,10,4)=ES10_36_4;
  WORK_HISTORY.LOOK(NEWYEAR,10,4)=ES10_40_4;

/* fix two bad ids to -3's for most vars */
if PUBLIC_ID= 5078 | PUBLIC_ID=10524 then do;
  WORK_HISTORY(NEWYEAR).INT=-3;            WORK_HISTORY(NEWYEAR).INTM=-3;
  WORK_HISTORY(NEWYEAR).INTD=-3;           WORK_HISTORY(NEWYEAR).INTY=-3;
  WORK_HISTORY(NEWYEAR).JOB(1)=-3;         WORK_HISTORY(NEWYEAR).JOB(2)=-3;
  WORK_HISTORY(NEWYEAR).JOB(3)=-3;         WORK_HISTORY(NEWYEAR).JOB(4)=-3;
  WORK_HISTORY(NEWYEAR).JOB(5)=-3;
  WORK_HISTORY(NEWYEAR).BETWEEN_JOBS(1)=-3;
  WORK_HISTORY(NEWYEAR).BETWEEN_JOBS(2)=-3;
  WORK_HISTORY(NEWYEAR).BETWEEN_JOBS(3)=-3;
  WORK_HISTORY(NEWYEAR).BETWEEN_JOBS(4)=-3;
  WORK_HISTORY(NEWYEAR).BETWEEN_JOBS(5)=-3;
  WORK_HISTORY(NEWYEAR).BETWEEN_JOBS(6)=-3;
  WORK_HISTORY(NEWYEAR).MILITARY=-3;
  WORK_HISTORY(NEWYEAR).WORKC=-3;
  WORK_HISTORY(NEWYEAR).HOURC=-3;
  WORK_HISTORY(NEWYEAR).WUMPC=-3;
  WORK_HISTORY(NEWYEAR).WOLFC=-3;
  WORK_HISTORY(NEWYEAR).CAL_YEAR_JOBS=-3;
  WORK_HISTORY(NEWYEAR).CAL_YEAR_JOB#(1)=-3;
  WORK_HISTORY(NEWYEAR).CAL_YEAR_JOB#(2)=-3;
  WORK_HISTORY(NEWYEAR).CAL_YEAR_JOB#(3)=-3;
  WORK_HISTORY(NEWYEAR).CAL_YEAR_JOB#(4)=-3;
  WORK_HISTORY(NEWYEAR).CAL_YEAR_JOB#(5)=-3;
  WORK_HISTORY(NEWYEAR).MISSC=-3;
  WORK_HISTORY(NEWYEAR).NWMISSC=-3;
  WORK_HISTORY(NEWYEAR).LASTINT_SUM=-3;
 end;

 end NEWVARIABLES;

1WEEK:PROC(MONTH,DAY,YEAR) RETURNS(float dec);
/******* The purpose of the week function is to take a date passed to it and to convert that date into a week
         number relative to 1-1-78.  Note that dates prior to 1-1-78 are assigned to week 0, missing days are
         assigned to day 15 of the month and a '-3' is returned if the date is not valid. ********/
 dcl (MONTH,DAY,YEAR) float dec(6);
 dcl MON(12) float dec(6) INIT(0,31,59,90,120,151,181,212,243,273,304,334);
```

```
if YEAR>0 & YEAR<MAXYEAR then MAXYEAR=YEAR;
if YEAR>0 & YEAR<78 then RETURN(0);
else if MONTH>0 & YEAR>0 & DAY<0 then DAY=15;
if MONTH>0 & MONTH<=12 & DAY>0 & DAY<32 & YEAR>=78 & YEAR<97 then do;
  LEAP=0;
  if YEAR>=80 then do;
    LEAP=CEIL((YEAR-80)/4);
    if MOD(YEAR,4)=0 & MONTH>2 then LEAP=LEAP+1;
  end;
  RETURN(((YEAR-78) *365 + MON(MONTH) + DAY + LEAP)/7);
end;
else RETURN(-3);
end WEEK;


1CALC: PROC(YR);
dcl YR float dec(6);
dcl CODE float dec(6);
CODE=-4;
WORK_HISTORY.LASTINT_JOBS(YR)=0;
do J=1 to 10;
    if WORK_HISTORY.START(YR,J)>=0 & WORK_HISTORY.STOP(YR,J)>=0 then do;
      WORK_HISTORY.START(YR,J)=CEIL(WORK_HISTORY.START(YR,J));
      WORK_HISTORY.STOP(YR,J)=CEIL(WORK_HISTORY.STOP(YR,J));
      end;
      FLAG=0;
  if WORK_HISTORY.START(YR,J)>-4 | WORK_HISTORY.STOP(YR,J)>-4 then do;
    WORK_HISTORY.LASTINT_JOBS(YR)=WORK_HISTORY.LASTINT_JOBS(YR)+1;
    WORK_HISTORY.NUMBER(YR,J)=YR*100+J;
    WORK_HISTORY.HOURLYWAGE(YR,J)=HRP(J);
    if WORK_HISTORY.PAST(YR,J)=1 | WORK_HISTORY.PAST(YR,J)=2
      then WORK_HISTORY.START(YR,J)=WORK_HISTORY.LASTINT(YR);
    if WORK_HISTORY.CURRENT(YR,J)=1 then WORK_HISTORY.STOP(YR,J)=
      WORK_HISTORY.INT(YR);
    else if WORK_HISTORY.STOP(YR,J)>0 & WORK_HISTORY.STOP(YR,J)>
        WORK_HISTORY.INT(YR) then WORK_HISTORY.STOP(YR,J)=
        WORK_HISTORY.INT(YR);
      end;
    if WORK_HISTORY.START(YR,J)>=0 & WORK_HISTORY.STOP(YR,J)>=
      WORK_HISTORY.START(YR,J) then do;
      WORK_HISTORY.START(YR,J)=CEIL(WORK_HISTORY.START(YR,J));
      WORK_HISTORY.STOP(YR,J)=CEIL(WORK_HISTORY.STOP(YR,J));
      WORK_HISTORY.TENURE(YR,J)=WORK_HISTORY.STOP(YR,J) -
        WORK_HISTORY.START(YR,J) + 1;
      call FILL(WORK_HISTORY.START(YR,J),WORK_HISTORY.STOP(YR,J),
          WORK_HISTORY.NUMBER(YR,J),WORK_HISTORY.HOURSWEEK(YR,J));
    end;
    else WORK_HISTORY.TENURE(YR,J)=-3;

    FLAG=1;
    if WORK_HISTORY.WEEKSNOTWORKED(YR,J)^=0 &
      WORK_HISTORY.WEEKSNOTWORKED(YR,J)^=-4 then do K=1 to 4;
      if WORK_HISTORY.PERIODSTOP(YR,J,K)>=0 &
        WORK_HISTORY.PERIODSTOP(YR,J,K)>WORK_HISTORY.INT(YR) then
        WORK_HISTORY.PERIODSTOP(YR,J,K)=WORK_HISTORY.INT(YR);
      if WORK_HISTORY.PERIODSTART(YR,J,K)>=0 &
        WORK_HISTORY.PERIODSTOP(YR,J,K)>=WORK_HISTORY.PERIODSTART(YR,J,K)
```

```
      then do;
      if WORK_HISTORY.REASON(YR,J,K)=2 then CODE=4;
      else if WORK_HISTORY.REASON(YR,J,K)>0 then do;
        if WORK_HISTORY.REASON(YR,J,K)^=3 &
          WORK_HISTORY.REASON(YR,J,K)^=4 then CODE=5;
        else do;
          if WORK_HISTORY.ALL(YR,J,K)=1 then CODE=5;
          else if WORK_HISTORY.ALL(YR,J,K)=3 then CODE=4;
          else if WORK_HISTORY.ALL(YR,J,K)=2 &
                WORK_HISTORY.LOOK(YR,J,K)>=0 then do;
            CODE=9;
            #WEEKS=WORK_HISTORY.LOOK(YR,J,K);
          end;
          else CODE=2;
        end;
      end;
      else CODE=2;
      call FILL(WORK_HISTORY.PERIODSTART(YR,J,K),WORK_HISTORY.PERIODSTOP(YR,J,K),
        CODE,WORK_HISTORY.HOURSWEEK(YR,J));
    end;
    else if K=1 then call FILL(WORK_HISTORY.START(YR,J),
        WORK_HISTORY.STOP(YR,J),3,WORK_HISTORY.HOURSWEEK(YR,J));
  end;
  if WORK_HISTORY.PREVIOUSEMP#(YR,J)>0 then do;
   if WORK_HISTORY.TENURE(YR,J)>0 &
    OLDHIST.OJOB(PR,WORK_HISTORY.PREVIOUSEMP#(YR,J),46)>0
    then WORK_HISTORY.TENURE(YR,J)=WORK_HISTORY.TENURE(YR,J)+
    OLDHIST.OJOB(PR,WORK_HISTORY.PREVIOUSEMP#(YR,J),46);
   else WORK_HISTORY.TENURE(YR,J)=-3;
     end;
  if WORK_HISTORY.PRETEN(YR,J)>-4 then do;
    if WORK_HISTORY.TENURE(YR,J)>=0 & WORK_HISTORY.PRETEN(YR,J)>=0 then
      WORK_HISTORY.TENURE(YR,J)=WORK_HISTORY.TENURE(YR,J) + 4.3 *
      WORK_HISTORY.PRETEN(YR,J);
    else WORK_HISTORY.TENURE(YR,J)=-3;
   end;
end;

do J=1 to 10;
 if WORK_HISTORY.START(YR,J)>-4 | WORK_HISTORY.STOP(YR,J)>-4 then do;
 if WORK_HISTORY.TENURE(YR,J)<0 then WORK_HISTORY.TENURE(YR,J)=-3;
  else WORK_HISTORY.TENURE(YR,J)=FLOOR(WORK_HISTORY.TENURE(YR,J) + .5);
 end;
end;

FLAG=0;
do K=1 to 6;
  if WORK_HISTORY.BSTOP(YR,K)>=0 & WORK_HISTORY.BSTOP(YR,K)>
    WORK_HISTORY.INT(YR) then WORK_HISTORY.BSTOP(YR,K)=WORK_HISTORY.INT(YR);
  if WORK_HISTORY.BSTART(YR,K)>=0 & WORK_HISTORY.BSTOP(YR,K)>=
    WORK_HISTORY.BSTART(YR,K) then do;
    if WORK_HISTORY.BALL(YR,K)=1 then CODE=5;
    else if WORK_HISTORY.BALL(YR,K)=3 then CODE=4;
    else if WORK_HISTORY.BALL(YR,K)=2 & WORK_HISTORY.BLOOK(YR,K)>=0 then do;
      CODE=9;
      #WEEKS=WORK_HISTORY.BLOOK(YR,K);
```

```
    end;
    else CODE=2;
    call FILL(WORK_HISTORY.BSTART(YR,K),WORK_HISTORY.BSTOP(YR,K),CODE,0);
  end;
 end;
PR=YR;
end CALC;

1FILL:PROC(WEEK_BEGAN,WEEK_ENDED,COD,HOURS);
dcl (WEEK_BEGAN,WEEK_ENDED,COD,HOURS) float dec;
if HOURS<0 then HOURS=-3;
else if HOURS=99 | HOURS=98 | HOURS=97 then HOURS=-3;
FILLER=0;WEEK_BEGAN=CEIL(WEEK_BEGAN);WEEK_ENDED=CEIL(WEEK_ENDED);
if WEEK_BEGAN>=0 & WEEK_ENDED>=WEEK_BEGAN then do F=WEEK_BEGAN to WEEK_ENDED;
  JJ = 1;
  if A(F)>100 & COD>100 &
  PR*100+WORK_HISTORY.PREVIOUSEMP#((FLOOR(COD/100)),(MOD(COD,100)))
  ^=A(F) then do;
    DUP=0;
    if DUALJOB(F,1)>0 then do;
      KK = 1;
      do WHILE ((KK <= 4) & (DUALJOB(F,KK) ^= 0));
        if PR*100+WORK_HISTORY.PREVIOUSEMP#((FLOOR(COD/100)),
          (MOD(COD,100)))=DUALJOB(F,KK) then DUP=1;
        KK = KK + 1;
      end;
    end;
    if DUP=0 then do;
      if HOURS>0 & HOUR(F)>=0 then do;
        HOUR(F)=HOUR(F) + HOURS;
        if HOUR(F)>96 then HOUR(F)=96;
      end;
      else if HOUR(F)<96 then HOUR(F)=-3;
      if (MOD(COD,100)) = 0 | (MOD(COD,100)) > 10 then do;
        put file(sysprint)
          edit('*** (error) IN CREATING DUALJOB> ID = ',ID, '...COD = ',COD)
              (skip(1),A,F(7,0),A,F(7,0));
      end;
      else do;
        KK = 1;
        do WHILE (KK <= 4);
          if DUALJOB(F,KK) = 0 then do;
            if KK > 1 then do;
              DUALJOB(F,KK) = DUALJOB(F,KK-1);
              DUALJOB(F,KK-1) = COD;
            end;
            else DUALJOB(F,1) = COD;
            KK = 9;
          end;
          KK = KK + 1;
        end;
      end;
    end;
  end;
  else if DUALJOB(F,1)=0 & (FLAG=1 | A(F)<100) then do;
    if COD=9 then do;
```

```
      if HOURS>0 & HOUR(F)>0 & (HOUR(F) - HOURS>=0) then HOUR(F)=HOUR(F) - HOURS;
      else if HOURS>0 then HOUR(F)=0;
      else HOUR(F)=HOURS;
      if FILLER<#WEEKS & F>(WEEK_ENDED-WEEK_BEGAN-#WEEKS)/2 + WEEK_BEGAN
        then do;
        A(F)=4;
        FILLER=FILLER+1;
      end;
      else if A(F)^=4 then A(F)=5;
    end;
    else if (A(F)^=4 | COD>100) then do;
      A(F)=COD;
      if COD>100 then HOUR(F)=HOURS;
      else if HOURS>0 & COD^=3 then HOUR(F)=0;
      else HOUR(F)=HOURS;
    end;
  end;
  else if DUALJOB(F,1)>0 & FLAG=1 & (COD=2 | COD=4 | COD=5 | COD=9) then do;
    KK = 1;
    do WHILE (KK <= 4);
      if DUALJOB(F,KK) = 0 then do;
        if KK > 1 then DUALJOB(F,KK-1) = 0;
        KK = 9;
      end;
      KK = KK + 1;
      if KK = 5 then DUALJOB(F,4) = 0;
    end;
    if HOURS>0 & HOUR(F)>0 & (HOUR(F) - HOURS >=0) then HOUR(F)=HOUR(F) - HOURS;
    else if HOURS>0 then HOUR(F)=0;
    else HOUR(F)=HOURS;
  end;
 end;
 end FILL;

1SUMMER:PROC(YEAR);
 dcl YEAR float dec;
 WORK_HISTORY.CALENDAR_YEAR_SUM(YEAR)=0;
 WORK_HISTORY.WORKL(YEAR),WORK_HISTORY.HOURL(YEAR),
         WORK_HISTORY.WOLFL(YEAR),WORK_HISTORY.WUMPL(YEAR),
         WORK_HISTORY.MISSL(YEAR),WORK_HISTORY.NWMISSL(YEAR)=0;
 do K=WORK_HISTORY.LASTINT(YEAR) to WORK_HISTORY.INT(YEAR);
   if (k<=0) then
     put file(sysprint)
       edit('#error: Proc SUMMER: out of range value. ', K)
         (skip(1),A,F(10));
   if A(K)>100 then do;
     WORK_HISTORY.WORKL(YEAR)=WORK_HISTORY.WORKL(YEAR)+1;
     if WORK_HISTORY.HOURL(YEAR)^=-3 & HOUR(K)>0
       then WORK_HISTORY.HOURL(YEAR)=WORK_HISTORY.HOURL(YEAR)+HOUR(K);
     else WORK_HISTORY.HOURL(YEAR)=-3;
   end;
   else if A(K)=4 then do;
     if WORK_HISTORY.WUMPL(YEAR)^=-3 then WORK_HISTORY.WUMPL(YEAR)=
       WORK_HISTORY.WUMPL(YEAR)+1;
   end;
   else if A(K)=2 then do;
```

```
    WORK_HISTORY.NWMISSL(YEAR)=WORK_HISTORY.NWMISSL(YEAR)+1;
    WORK_HISTORY.WUMPL(YEAR),WORK_HISTORY.WOLFL(YEAR)=-3;
  end;
  else if A(K)=5 | A(K)=7 then do;
    if WORK_HISTORY.WOLFL(YEAR)^=-3 then WORK_HISTORY.WOLFL(YEAR)=
      WORK_HISTORY.WOLFL(YEAR)+1;
  end;
  else if A(K)=3 then do;
    WORK_HISTORY.WORKL(YEAR)=WORK_HISTORY.WORKL(YEAR)+1;
    WORK_HISTORY.MISSL(YEAR)=WORK_HISTORY.MISSL(YEAR)+1;
    if WORK_HISTORY.HOURL(YEAR)^=-3 & HOUR(K)>0 then
      WORK_HISTORY.HOURL(YEAR)=WORK_HISTORY.HOURL(YEAR)+HOUR(K);
    else WORK_HISTORY.HOURL(YEAR)=-3;
    WORK_HISTORY.WUMPL(YEAR),WORK_HISTORY.WOLFL(YEAR)=-3;
  end;
  else do;
    WORK_HISTORY.MISSL(YEAR)=WORK_HISTORY.MISSL(YEAR)+1;
    WORK_HISTORY.WOLFL(YEAR),WORK_HISTORY.WUMPL(YEAR)=-3;
  end;
end;
SUMOUT:WORK_HISTORY.WBID(YEAR)=WORK_HISTORY.INT(YEAR)-
WORK_HISTORY.LASTINT(YEAR)+1;
dcl PICKJOB float dec(6);
do K=1+(YEAR-1)*52 to YEAR*52;
  if A(K)>100 then do;
    WORK_HISTORY.WORKC(YEAR)=WORK_HISTORY.WORKC(YEAR)+1;
    if WORK_HISTORY.HOURC(YEAR)^=-3 & HOUR(K)>0 then
      WORK_HISTORY.HOURC(YEAR)=WORK_HISTORY.HOURC(YEAR)+HOUR(K);
    else WORK_HISTORY.HOURC(YEAR)=-3;
    if WORK_HISTORY.CAL_YEAR_JOBS(YEAR)=0 then do;
      WORK_HISTORY.CAL_YEAR_JOBS(YEAR)= WORK_HISTORY.CAL_YEAR_JOBS(YEAR)+1;
      WORK_HISTORY.CAL_YEAR_JOB#(YEAR,WORK_HISTORY.CAL_YEAR_JOBS(YEAR))
      =A(K);
    end;
    else do;
      do J=WORK_HISTORY.CAL_YEAR_JOBS(YEAR) to 1 by -1;
        if FLOOR(A(K)/100) < YEAR then
          PICKJOB=OLDHIST.OJOB(FLOOR(A(K)/100),MOD(A(K),100),43);
        else PICKJOB=WORK_HISTORY.PREVIOUSEMP#(FLOOR(A(K)/100),MOD(A(K),100));
        if A(K)=WORK_HISTORY.CAL_YEAR_JOB#(YEAR,J) | PR*100 + PICKJOB
          =WORK_HISTORY.CAL_YEAR_JOB#(YEAR,J) then go to NOCOUNT;
      end;
      WORK_HISTORY.CAL_YEAR_JOBS(YEAR)= WORK_HISTORY.CAL_YEAR_JOBS(YEAR)+1;
      WORK_HISTORY.CAL_YEAR_JOB#(YEAR,WORK_HISTORY.CAL_YEAR_JOBS(YEAR))=
      A(K);
    end;
    NOCOUNT:
  end;
  else if A(K)=4 then do;
    if WORK_HISTORY.WUMPC(YEAR)^=-3 then WORK_HISTORY.WUMPC(YEAR)=
      WORK_HISTORY.WUMPC(YEAR)+1;
  end;
  else if A(K)=2 then do;
    WORK_HISTORY.NWMISSC(YEAR)=WORK_HISTORY.NWMISSC(YEAR)+1;
    WORK_HISTORY.WUMPC(YEAR),WORK_HISTORY.WOLFC(YEAR)=-3;
  end;
```

```
   else if A(K)=5 | A(K)=7 then do;
     if WORK_HISTORY.WOLFC(YEAR)^=-3 then WORK_HISTORY.WOLFC(YEAR)=
       WORK_HISTORY.WOLFC(YEAR)+1;
     if A(K)=7 & WORK_HISTORY.MILWKSC(YEAR)>=0 then
       WORK_HISTORY.MILWKSC(YEAR)=WORK_HISTORY.MILWKSC(YEAR)+1;
   end;
   else if A(K)=3 then do;
     WORK_HISTORY.WORKC(YEAR)=WORK_HISTORY.WORKC(YEAR)+1;
     WORK_HISTORY.MISSC(YEAR)=WORK_HISTORY.MISSC(YEAR)+1;
     if WORK_HISTORY.HOURC(YEAR)^=-3 & HOUR(K)>0 then
       WORK_HISTORY.HOURC(YEAR)=WORK_HISTORY.HOURC(YEAR)+HOUR(K);
     else WORK_HISTORY.HOURC(YEAR)=-3;
     WORK_HISTORY.WUMPC(YEAR),WORK_HISTORY.WOLFC(YEAR)=-3;
   end;
   else do;
     WORK_HISTORY.MISSC(YEAR)=WORK_HISTORY.MISSC(YEAR)+1;
     WORK_HISTORY.WOLFC(YEAR),WORK_HISTORY.WUMPC(YEAR)=-3;
   end;
end;
if WORK_HISTORY.MILWKSC(YEAR)=0 then WORK_HISTORY.MILWKSC(YEAR)=-4;
CALOUT:
WORK_HISTORY.MISSL(YEAR)=FLOOR((WORK_HISTORY.MISSL(YEAR)/
(WORK_HISTORY.INT(YEAR)-WORK_HISTORY.LASTINT(YEAR)+1)*100));
WORK_HISTORY.NWMISSL(YEAR)=FLOOR((WORK_HISTORY.NWMISSL(YEAR)/
(WORK_HISTORY.INT(YEAR)-WORK_HISTORY.LASTINT(YEAR)+1)*100));
WORK_HISTORY.MISSC(YEAR)=FLOOR((WORK_HISTORY.MISSC(YEAR)/52)*100);
WORK_HISTORY.NWMISSC(YEAR)=FLOOR((WORK_HISTORY.NWMISSC(YEAR)/52)*100);
end SUMMER;

HRP:PROC(JOBNO) RETURNS(float dec(6));  /* modified 1/09/93 */
dcl (JOBNO) fixed bin(15);
if WORK_HISTORY.PAYRATE(NEWYEAR,JOBNO)>0 &
  WORK_HISTORY.TIMERATE(NEWYEAR,JOBNO)>0 then do;
 if WORK_HISTORY.PAYRATE(NEWYEAR,JOBNO)=9999995 then RETURN(-4);
 else if WORK_HISTORY.TIMERATE(NEWYEAR,JOBNO)=1 then
      RETURN(WORK_HISTORY.PAYRATE(NEWYEAR,JOBNO));
 else if WORK_HISTORY.TIMERATE(NEWYEAR,JOBNO)=2 &
      WORK_HISTORY.HOURDAY(NEWYEAR,JOBNO)>0 then
   RETURN((FLOOR(WORK_HISTORY.PAYRATE(NEWYEAR,JOBNO)/
      WORK_HISTORY.HOURDAY(NEWYEAR,JOBNO))));
 else if WORK_HISTORY.TIMERATE(NEWYEAR,JOBNO)>=3 &
      WORK_HISTORY.TIMERATE(NEWYEAR,JOBNO)<=8 &
  WORK_HISTORY.HOURSWEEK(NEWYEAR,JOBNO)>0
   then do;
   if WORK_HISTORY.TIMERATE(NEWYEAR,JOBNO)=3 then
    RETURN((FLOOR(WORK_HISTORY.PAYRATE(NEWYEAR,JOBNO)/
      WORK_HISTORY.HOURSWEEK(NEWYEAR,JOBNO))));
   else if WORK_HISTORY.TIMERATE(NEWYEAR,JOBNO)=4 then
    RETURN((FLOOR(WORK_HISTORY.PAYRATE(NEWYEAR,JOBNO)/
      (WORK_HISTORY.HOURSWEEK(NEWYEAR,JOBNO)*2))));
   else if WORK_HISTORY.TIMERATE(NEWYEAR,JOBNO)=5 then
    RETURN((FLOOR(WORK_HISTORY.PAYRATE(NEWYEAR,JOBNO)/
      (WORK_HISTORY.HOURSWEEK(NEWYEAR,JOBNO)*4.3))));
   else if WORK_HISTORY.TIMERATE(NEWYEAR,JOBNO)=6 then
    RETURN((FLOOR(WORK_HISTORY.PAYRATE(NEWYEAR,JOBNO)/
      (WORK_HISTORY.HOURSWEEK(NEWYEAR,JOBNO)*52))));
```

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   else if WORK_HISTORY.TIMERATE(NEWYEAR,JOBNO)=8 then
    RETURN((FLOOR(WORK_HISTORY.PAYRATE(NEWYEAR,JOBNO)/
       (WORK_HISTORY.HOURSWEEK(NEWYEAR,JOBNO)*2.15)))));
  end;
  else RETURN(-4);
end;
else RETURN(-4);
end HRP;


done:
kountnew=kountnew-1;

  /***** TEMPORARY DUMP OF NEW VAR 7/22/91 ******/
  /* do i = 1 to newyear-1;
    put file(sysprint) edit('ojobever(',i,')= ',oldhist(i).ojobever)        (skip(1),a,f(2),a,f(10));
  end;
  put file(sysprint) edit('work_history.jobever(newyear)= ',
              work_history.jobever(newyear))(skip(1),a,f(10));     */
  put file(sysprint) edit(' NUMBER OF RECORDS read from WORKTAP =',kount)          (skip(2),A,F(7,0));
  put file(sysprint) edit(' NUMBER OF RECORDS read from VARSNYR =',kountnew)        (skip(2),A,F(7,0));
  put file(sysprint) edit(' NUMBER OF RECORDS read from ADDJOBS =',kountadd)        (skip(2),A,F(7,0));
  put file(sysprint) edit(' NUMBER OF RECORDS read from TABLE  =',TBL_CNT)          (skip(2),A,F(7,0));
  put file(sysprint) edit(' WORK HISTORY RECORDS WRITTEN out   =',kount_out)        (skip(2),A,F(7,0));
  put file(sysprint) edit(' EXTRA WORK RECORDS WRITTEN out     =',kount_XVR)        (skip(2),A,F(7,0));
  put file(sysprint) edit(' # OF CURRENT YEAR ZERO WORK_HISTORY.WEIGHT CASES
    =',WTZERO) (skip(2),A,F(7,0));
end DMPDATA;
```