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/*                               DSN=3YS6R8                               */
/* R3836. - MOST RECENT COLLEGE DEGREE, 1971                          */
*/

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VALID CODES:

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0 - NEVER RECEIVED COLLEGE DEGREE
1 - ASSOCIATE DEGREE
2 - BACHELORS DEGREE (B.A.,B.S.,A.B.)
3 - MASTERS (M.S.,M.A.,M.B.A.)
4 - DOCTORATE (PH.D.,M.D.)
5 - OTHER
6 - DEGREE TYPE NOT ASCERTAINABLE
7 - NOT INTERVIEWED

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DERIVATION:

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DCL MRD71 FLOAT DEC(6);
MRD71=R(3091.) + 1;
IF MRD71<0 THEN DO;
  IF R(3114.)=6 THEN MRD71=0;
  ELSE MRD71=R(3114.);
END;
IF MRD71<0 THEN MRD71=6;
IF R(3852.)<0 THEN MRD71=7;
IF MRD71=6 THEN DO;
  IF R(2963.)^=6 & R(2963.)^=7 THEN MRD71=R(2963.);
  IF (R(2963.)=6 ! R(2963.)=7) &
    (R(3832.)>=0 & R(3832.)<16) THEN DO;
    IF (R(624.50)<1 ! R(624.50)>5) &
      (R(1141.50)<1 ! R(1141.50)>5) &
      (R(1678.50)<1 ! R(1678.50)>5) &
      (R(2246.50)<1 ! R(2246.50)>5) THEN MRD71=0;
    END;
  IF (R(2963.)=6 ! R(2963.)=7) & (R(3832.)=16 ! R(3832.)=17) THEN DO;
    IF R(624.50)>=1 & R(624.50)<=5 THEN MRD71=R(624.50);
    IF R(1141.50)>=1 & R(1141.50)<=5 THEN MRD71=R(1141.50);
    IF R(1678.50)>=1 & R(1678.50)<=5 THEN MRD71=R(1678.50);
    IF R(2246.50)>=1 & R(2246.50)<=5 THEN MRD71=R(2246.50);
  END;
  IF R(3832.)<14 THEN MRD71=0;
END;
IF (MRD71=6 & R(2963.)=7) & (R(3832.)=16 ! R(3832.)=17) & R(3060.)=1 THEN MRD71=2
IF R(1.)=388 ! R(1.)=1555 THEN MRD71=0;
IF MRD71=0 & (R(2963.)=1 ! R(2963.)=5) &
  R(2246.50)=0 THEN MRD71=R(2963.);
IF MRD71=0 & R(2963.)=1 & R(2246.50)=1 THEN MRD71=R(2963.);
IF MRD71=0 & R(2963.)=2 THEN MRD71=R(2963.);
IF MRD71=0 & R(2963.)=7 & R(2246.50)=7 &
  R(1678.50)=7 & R(1141.50)=1 THEN MRD71=R(1141.50);
IF R(1.)=2815 ! R(1.)=3318 ! R(1.)=3657 THEN MRD71=6;
IF R(1.)=2685 ! R(1.)=2686 ! R(1.)=679 !
  R(1.)=3026 ! R(1.)=1770 ! R(1.)=2743 !
  R(1.)=652 ! R(1.)=1108 ! R(1.)=2162 !
  R(1.)=1323 ! R(1.)=1589 ! R(1.)=2068 !
  R(1.)=3765 ! R(1.)=3843 ! R(1.)=4391 !
  R(1.)=495 ! R(1.)=1487 THEN MRD71=4;
ELSE IF R(1.)=3657 THEN MRD71=6;
  R(3836.)=MRD71;

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/*          DSN=BYS9R4          */
/*          NUMBER OF WEEKS KEY VARIABLES:          */
/*          BETWEEN 1975 AND 1976          */
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2.

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/* KEY VARIABLES - WORK,WUMP,WOLF,NW */
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```
THS1:
WORK,WUMP,WOLF,NW,WBID = NA;
IF R(5439.50) ^= NA THEN CALL WIMP;
R(5451.) = WUMP;
R(5452.) = WOLF;
R(5450.) = WORK;
R(4375.08) = WBID;
WIMP: PROC;
DCL A(104)    FLOAT DEC(6),
CK(7)       FLOAT DEC(6),
WNW(7)      FLOAT DEC(6),
REASON(7)   FLOAT DEC(6),
ALT(7)      FLOAT DEC(6),
MON(7)      FLOAT DEC(6),
DAY(7)      FLOAT DEC(6),
YEAR(7)     FLOAT DEC(6),
SWN(7)      FLOAT DEC(6),
SUMP(7)     FLOAT DEC(6),
STARM(7)    FLOAT DEC(6),
STARD(7)    FLOAT DEC(6),
STARY(7)    FLOAT DEC(6),
STOPM(7)    FLOAT DEC(6),
STOPD(7)    FLOAT DEC(6),
STOPY(7)    FLOAT DEC(6),
WEEK(7)     FLOAT DEC(6),
SCK(7)      FLOAT DEC(6),
LM          FLOAT DEC(6),
LD          FLOAT DEC(6),
LY          FLOAT DEC(6),
WL          FLOAT DEC(6),
SM          FLOAT DEC(6),
SD          FLOAT DEC(6),
SY          FLOAT DEC(6),
FW          FLOAT DEC(6);
A = NA;
WNW,STOPD = NA;
B,C,D,E,F,G,P,R,S,T,V,W,Z = NA;
WBID,LM,LD,LY,WL,SM,SD,SY = NA;
WORK,WUMP,WOLF,NW,H = 0;
L,FW = 1;
  IF R(4375.01) ^= NA & R(4375.02) ^= NA & R(4375.03) ^= NA
    THEN T = FUN(R(4375.01),R(4375.02),R(4375.03));
  IF R(1.) = 2575 THEN T = FUN(11,R(4375.02),R(4375.03));
  H = 1;
  IF R(4375.05) ^= NA & R(4375.06) ^= NA & R(4375.07) ^= NA
    THEN S = FUN(R(4375.05),R(4375.06),R(4375.07));
  ELSE IF R(4127.) ^= NA & R(4128.) ^= NA
    THEN S = FUN(R(4127.),R(4128.),75);
  IF S ^= NA & T ^= NA THEN DO;
    WBID = T - S + 1;
    DO K = S TO T;
      A(K) = 0;
```

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                END;
                END;
                ELSE GOTO DAEND;
H = .5;
IF R(5439.50) = 1 ! R(5439.50) = 2
  THEN DO;
    IF R(4537.) ^= NA THEN DO;
      SM = R(4535.);
      SD = R(4536.);
      SY = R(4537.);
    END;
  ELSE IF R(4531.) ^= 0 THEN DO;
    SM = R(4532.);
    SD = R(4533.);
    SY = R(4534.);
  END;
  ELSE IF R(4530.) ^= NA THEN DO;
    SM = R(4528.);
    SD = R(4529.);
    SY = R(4530.);
  END;
IF SY ^= NA & SD = NA & SM ^= NA & R(4645.) = SY & R(4643.) = SM - 1
  & R(4644.) = NA THEN DO;
  SD = 1;
  STOPD(1) = 30;
  END;
  IF SY > 0 THEN DO;
    IF SY < 75 THEN P = S;
  ELSE IF SM > 0 THEN P = FUNC(SM,SD,SY);
    IF P > 0 & T >= P THEN DO K = P TO T;
      A(K) = 1;
    END;
    IF R(4615.) ^= 0
      THEN DO;
      IF R(4616.) ^= NA
        THEN DO;
          B = 1;
          IF P ^= NA THEN V = FLOOR((T - P - R(4616.)
            + 1) / 2 + P);
            ELSE V = T - R(4616.);
          IF P ^= NA & T - P + 1 < R(4616.)
            THEN GOTO DAEND;
          DO K = V TO T WHILE(R(4616.) >= B);
            IF R(4617.) > 0 THEN DO;
              IF R(4617.) = 5 THEN A(K) = 4;
                ELSE A(K) = 5;
            END;
            ELSE DO;
              WUMP,WOLF = NA;
              A(K) = 2;
            END;
          B = B + 1;
        END;
      END;
    ELSE DO;
      NW,WORK = NA;
      IF P > 0 & T >= P THEN DO K = P TO T;
        A(K) = 3;
      END;
      IF R(4617.) > 0 THEN DO;

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IF R(4617.) = 5
  THEN WUMP = NA;
  ELSE WOLF = NA;
END;
ELSE WOLF,WUMP = NA;

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END;

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END;

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END;

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IF R(4609.) ^= NA
  THEN DO;
    IF R(4609.) < 75 THEN D = S;
    ELSE IF R(4606.) ^= NA THEN D = FUN(R(4606.),R(4607.),
      R(4608.));
    IF D > 0 & T >= D THEN DO K = D TO T;
      IF ACK) = 0 THEN ACK) = 1;
    END;
  END;

```

```

END;

```

```

END;

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ELSE IF R(5439.50) >= 3 & R(5439.50) <= 8
  THEN DO;

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```

  IF R(4515.) = 1 THEN DO;
    LM = R(4512.);
    LD = R(4513.);
    LY = R(4514.);
  END;

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  ELSE IF R(4519.) = 1 THEN DO;
    LM = R(4516.);
    LD = R(4517.);
    LY = R(4518.);
  END;

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  IF LM > 0 & LY > 0 THEN C = FUN(LM,LD,LY);
  IF C = NA & R(4620.) > 0 THEN C = T - R(4620.) + 1;
  IF R(4620.) ^= NA & R(4620.) = R(4621.) & C ^= NA &
    C ^= T - R(4620.) + 1

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  THEN WL = T - C + 1;

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  ELSE WL = R(4621.);

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  IF C ^= NA THEN DO;

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    IF WL > 0 & R(4620.) ^= NA & ABS(T - C - R(4620.)) > 2
      & WL ^= T - C + 1 THEN WL = NA;

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    IF C < S THEN C = S;

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    W = 1;

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    IF T >= C THEN DO K = C TO T;

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      IF WL >= 0 THEN DO;

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        IF WL >= W THEN ACK) = 4;
        ELSE ACK) = 5;

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        W = W + 1;

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      END;

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```

      ELSE DO;

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```

        WUMP,WOLF = NA;

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        ACK) = 2;

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      END;

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    END;

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  END;

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  IF R(4515.) ^= 1 & R(4519.) ^= 1

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    THEN DO;

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      IF R(4625.) = NA

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        THEN DO;

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          WORK,WOLF,NW = NA;

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          IF R(4626.) ^= 0 & R(4627.) = NA

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            THEN WUMP=NA;

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ELSE IF R(4627.) > 0
  THEN DO K = T TO S BY -1;
    IF L <= R(4627.) THEN ACK) = 4;
    ELSE ACK) = 3;
    L = L + 1;
  END;
END;
ELSE DO K = S TO T;
  IF FW <= R(4625.)
  THEN DO;
    ACK) = 1;
    FW = FW + 1;
  END;
  ELSE DO;
    IF R(4626.) = 0 ! R(4627.) > 0
    THEN DO;
      IF L <= R(4627.)
      THEN ACK) = 4;
      ELSE ACK) = 5;
      L = L + 1;
    END;
    ELSE DO;
      WUMP,WDLF = NA;
      ACK) = 2;
    END;
  END;
END;
END;
END;
END;
J = 1;
DO I = 5347 TO 5563 BY 36;
  CK(J) = X(I + 19); WNW(J) = X(I + 20); REASON(J) = X(I + 21);
  ALT(J) = X(I + 22); MON(J) = X(I + 28); DAY(J) = X(I + 29);
  YEAR(J) = X(I + 30); SWN(J) = X(I + 31); SUMP(J) = X(I + 32);
  STARM(J) = X(I + 9); STARD(J) = X(I + 10); STARY(J) = X(I + 11);
  STOPM(J) = X(I + 12); IF STOPD(J) = NA THEN STOPD(J) = X(I + 13);
  STOPY(J) = X(I + 14); WEEK(J) = 1; SCK(J) = X(I + 27);
  J = J + 1;
END;
DO J = 1 TO 7;
  E,F,G = NA;
  IF STOPY(J) = -1
  THEN DO;
    STOPM(J) = R(4375.01);
    STOPD(J) = R(4375.02);
    STOPY(J) = R(4375.03);
  END;
  IF STARY(J) ^= NA ! STOPY(J) ^= NA
  THEN DO;
    IF STARY(J) > 0 THEN DO;
      IF STARY(J) < 75 THEN E = S;
      ELSE IF STARM(J) > 0 THEN E =
        FUN(STARM(J),STARD(J),STARY(J));
    END;
    IF STOPM(J) > 0 & STOPY(J) > 0 THEN F =
      FUN(STOPM(J),STOPD(J),STOPY(J));
    IF STOPY(J) ^= NA & STOPM(J) ^= NA & STOPD(J) = NA
    & SCK(J) = 0 & STOPY(J) = STARY(J + 1) & STARM(J) =
      STOPM(J + 1) - 1 & STARD(J + 1) = NA
    THEN DO;

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      E = FUNC(STARM(J),1,STARY(J));
      STOPD(J + 1) = 30;
      END;
IF E > 0 & F >= E & WORK ^= NA
  THEN DO K = E TO F;
    IF A(K) = 0 ! A(K) = 3
      THEN A(K) = 1;
    END;
ELSE DO;
  IF STARY(J) > 0
    THEN IF STARM(J) > 0
      THEN E = FUNC(STARM(J),
        STARD(J),STARY(J));
      ELSE E = FUNC(1,1,STARY(J));
    ELSE E = S;
  IF STOPY(J) > 0
    THEN IF STOPM(J) > 0
      THEN F = FUNC(STOPM(J),
        STOPD(J),STOPY(J));
      ELSE F = FUNC(12,31,STOPY(J));
    ELSE F = T;
  IF F > T THEN F = T;
  IF E > 0 & F >= E THEN DO K = E TO F;
    IF A(K) = 0
      THEN A(K) = 3;
    END;
  END;
IF CK(J) ^= 0 & ALT(J) ^= 1
  THEN DO;
    IF WNW(J) = NA
      THEN DO;
        IF REASON(J) > 0
          THEN DO;
            IF REASON(J) = 5
              THEN WUMP = NA;
              ELSE WOLF = NA;
            END;
            ELSE WUMP,WOLF = NA;
          WORK,NW = NA;
          IF E > 0 & F >= E
            THEN DO K = E TO F;
              A(K) = 3;
            END;
          END;
        ELSE IF WNW(J) > 0 & E > 0 & F >= E
          THEN DO;
            Z = FLOOR((F - E - WNW(J)
              + 1) / 2 + E);
            IF F - E + 1 < WNW(J)
              THEN GOTO DAEND;
            ELSE DO K = Z TO F WHILE
              (WNW(J) >= WEEK(J));
              IF REASON(J) > 0
                THEN DO;
                  IF REASON(J) = 5
                    THEN DO;
                      IF WUMP ^= NA
                        THEN A(K)=4;
                      ELSE A(K)=2;
                    END;
                END;
          END;

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ELSE DO;
IF WOLF ^= NA
THEN ACK)=5;
ELSE ACK)=2;
END;
END;
ELSE DO;
WOLF,WUMP = NA;
ACK) = 2;
END;
WEEK(J) = WEEK(J) + 1;
END;
END;
END;
END;
END;
IF SCK(J) = 1 ! (J = 1 & R(4619.) = 1) ! YEAR(J) ^= NA
THEN DO;
IF MON(J) = R(4375.05) & YEAR(J) = R(4375.07) & DAY(J)
THEN DAY(J) = 1;
IF YEAR(J) ^= NA
THEN DO;
IF YEAR(J) < 75 THEN G = S;
ELSE IF MON(J) > 0 THEN G = FUN(MON(J),DAY(J),
YEAR(J));
END;
U = 1;
IF J = 1 & R(4619.) = 1 THEN E = P;
IF E ^= NA & SWN(J) ^= NA & G = NA
THEN G = E - SWN(J);
IF SWN(J) = SUMP(J) & E ^= NA & G ^= NA &
SUMP(J) ^= NA & SUMP(J) ^= E - G
THEN SUMP(J) = E - G;
IF G > 0 & E > G
THEN DO;
IF SWN(J) > 0 & ABS(E - G - SWN(J)) > 1
& SUMP(J) ^= E - G & SUMP(J) > 0
THEN SUMP(J) = NA;
DO K = G TO E - 1;
IF SUMP(J) >= 0
THEN DO;
IF SUMP(J) >= U
THEN DO;
IF WUMP ^= NA
THEN ACK) = 4;
ELSE ACK) = 2;
END;
ELSE DO;
IF WOLF ^= NA
THEN ACK) = 5;
ELSE ACK) = 2;
END;
END;
ELSE DO;
WUMP,WOLF = NA;
ACK) = 2;
END;
U = U + 1;
END;
END;
END;
END;

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END;
IF S > 0 & T > S THEN DO K = S TO T;
    IF A(K) = 0 & A(K -1) ^= 0 & A(K +1) ^= 0
        THEN A(K) = 1;
    IF A(K) = 1 & WORK ^= NA THEN WORK = WORK + 1;
    IF A(K) = 4 & WUMP ^= NA THEN WUMP = WUMP + 1;
    IF A(K) = 5 & WOLF ^= NA THEN WOLF = WOLF + 1;
    IF A(K) = 0 THEN WORK, WOLF, WUMP = NA;
    IF A(K) = 3 THEN WORK = NA;
END;

RETURN;
DAEND: WORK, WUMP, WOLF, NW = NA;
RETURN;
FUN: PROC(M, O, Q);
    DCL (M, O, Q) FLOAT DEC(6);
    IF O = NA THEN O = 15;
    N = FLOOR((Q -75) * (365 /7) + (M -6) * (13 /3) +
        (O -1) / (365 /52) + H);
    IF N < S THEN N = S;
    RETURN (N);
END FUN;
END WIMP;

```