```
BEGIN
  INTEGER I, J, K, L, M, N, P, Q, R, S, T, MON, ANF, E, F,
  MEND, AQ, ANFQ, PROD, NNAN, EZ, BEV, AUS, CODE, AKTEM,
  VER, U, V, W, BANFQ, NAUF, NEIN, NZA;
  REAL WER, PG, PR, KAP, KAPA, PLAN, C1, GEW, SOZ, PB, GEBIN, H,
KPF, LESUM, KIND,
  A, B, C, D, G, AWQ, ZWQ, PD, LONST, ROLAK, LAVOK, ENERG, ENT, LME,
AME, ARE, NARZU;
  BOOLEAN AB;
  CODE := ININT;
  ANF := ININT;
  MEND := ININT;
  E := 18;
  F := 28;
  AUS := ININT;
  AKTEM := 0;
  AB := FALSE;
  OUTIMAGE;
  OUTTEXT("CODENR");
  OUTINT(CODE, 10);
  BEGIN
    INTEGER ARRAY ALTER, POOL(1:E, 1:5), ESP(1:36),
    GRENZ, GREP(1:E), BW(U:E, 1:E),
    ALGRU(1:9), IND(1:36), WO(1:6, 0:E + 2);
    ARRAY HD(1:E, 1:28), ZEIT(1:6, 1:36),
    EIN, AKTEIN(1:100, 1:13),
    FLUK(1:5), INST(1:9, 1:20), UST(1:14), AR(1:30),
    EMERG(1:15, 1:7), NABIL, ARZU,
    ABIL(1:2), ALZU, STERIN, JAHRIN, JAHRAN, TSUM, ALAB(1:9),
    KUMZU, KUMAB, (1:E, 1:5), SYC(1:22);


    PROCEDURE NL(N);
      INTEGER N;
    BEGIN
      INTEGER I;
      FOR I := 1 STEP 1 UNTIL N DO OUTIMAGE;
    END;


    PROCEDURE RMATEIN(MAT, AZ, EZ, AS, ES);
      VALUE AZ, EZ, AS, ES;
      INTEGER
      AZ, EZ, AS, ES;
      ARRAY MAT;
    BEGIN
      INTEGER I, J;
      FOR I := AZ STEP 1 UNTIL
      EZ DO FOR J := AS STEP 1 UNTIL ES DO MAT(I, J) := INREAL
    END;


    PROCEDURE MATA(M, X, AZ, NZ, AS, NS, ZEI, HK, W);
      INTEGER AZ, NZ, AS, W,
```

```
      NS, HK, ZEI;
      INTEGER ARRAY X;
      ARRAY M;
    BEGIN
      INTEGER I, J;
      NL(3);
      FOR I := AZ STEP 1 UNTIL NZ DO
      BEGIN
        NL(1);
        FOR J := AS STEP 1 UNTIL NS DO
        BEGIN
          IF W LESS 0 THEN
          OUTFIX(M(I, J), HK, ZEI) ELSE OUTINT(X(I, J), ZEI);
          IF MOD(J, ENTIER(79 / ZEI)) EQUAL 0 THEN NL(1)
        END J
      END I
    END MATA;


    PROCEDURE VEKA(V, X, A, E, ZEI, HK, W);
      INTEGER W, A, E, HK, ZEI;
      INTEGER ARRAY X;
      ARRAY V;
    BEGIN
      INTEGER I;
      NL(2);
      FOR I := A STEP 1 UNTIL E DO
      BEGIN
        IF W LESS 0 THEN OUTFIX(V(I), HK, ZEI) ELSE OUTINT(X(I),
ZEI);
        IF MOD(I, ENTIER(79 / ZEI)) EQUAL 0 THEN
        NL(1)
      END
    END VEKA;


    PROCEDURE WOMIN(BER, N);
      INTEGER BER, N;
    BEGIN
      INTEGER I, J;
      LW:I := RANDINT(1, 6, U);
      J := WO(I, BER);
      IF J GREATER 0 THEN
      BEGIN
        IF J GREATER N THEN WO(I, BER) := J - N ELSE
        BEGIN
          N := N - J;
          WO(I, BER) := 0;
          GOTO LW
        END
      END ELSE GOTO LW
    END WOMIN;
```

```
PROCEDURE REST(G, RESTWERT, BASIS, INDEX);
  NAME G, RESTWERT;
  VALUE INDEX;
  INTEGER G;
  REAL RESTWERT, INDEX, BASIS;
BEGIN
  RESTWERT := RESTWERT + BASIS * INDEX;
  G := ENTIER(RESTWERT);
  IF G GREATER 0 THEN RESTWERT := RESTWERT - G
END RESTREST;


PROCEDURE MATAUS(MR, MI, AZ, NZ, AS, NS, Z, IN);
  VALUE AS, AZ, NS, NZ, Z, IN;
  INTEGER AS, AZ, NS, Z, NZ;
  BOOLEAN IN;
  INTEGER ARRAY MI;
  ARRAY MR;
BEGIN
  INTEGER I, J, K, L, M, N;
  NL(5);
  K := ENTIER(120 / Z + 0.5);
  IF NS LESS K THEN N := NS ELSE N := K;
  M := AS;
  L1:
  FOR I := AZ STEP 1 UNTIL NZ DO
  BEGIN
    OUTIMAGE;
    OUTINT(I, 5);
    OUTTEXT("I");
    FOR J := M STEP 1 UNTIL N DO
    BEGIN
      IF IN THEN OUTINT
      (MI(I, J), Z) ELSE OUTFIX(MR(I, J), 3, Z)
    END
  END I;
  IF N LESS NS THEN
  BEGIN
    NL(5);
    N := N + K;
    M := M + K;
    IF N GREATER NS THEN N := NS;
    GOTO L1
  END
END MATAUS;


PROCEDURE GRUNDAUS;
BEGIN
  NL(5);
  OUTIMAGE;
  OUTINT(MON, 5);
  OUTIMAGE;
  MATAUS(HD, WO, 1, E, 1, 28, 15, FALSE );
```

```
  MATAUS(INST, WO, 1, 7, 1, 17, 15, FALSE );
  MATAUS(INST, WO, 1, 6, 0, E + 2, 8, TRUE );
  MATAUS(HD, ALTER, 1, E, 1, 5, 5, TRUE );
END GRUNDAUS;


PROCEDURE UMSETZ(VON, ZU, N);
  INTEGER VON, ZU, N;
BEGIN
  INTEGER I, J, K, H;
  REAL KAP;
  K := HD(VON, 2) + HD(VON, 3);
  IF N GREATER K THEN H := K;
  IF K GREATER 0 THEN
  KAP := HD(VON, 14) / K;
  FOR I := 1 STEP 1 UNTIL H DO
  BEGIN
    L:J := RANDINT(1, 5, U);
    IF ALTER(VON, J) GREATER 0 THEN
    BEGIN
      ALTER(VON, J) := ALTER(VON, J) - 1;
      ALTER(ZU, J) := ALTER(ZU, J) + 1;
      HD(VON, 2) := HD(VON, 2) - 1;
      HD(ZU, 3) := HD(ZU, 3) + 1;
      L2:K := RANDINT(1, 6, U);
      IF WO(K, VON) GREATER 0 THEN
      BEGIN
        WO(K, VON) := WO(K, VON) - 1;
        WO(K, ZU) := WO(K, ZU) + 1
      END
      ELSE GOTO L2;
      HD(VON, 14) := HD(VON, 14) - KAP;
      HD(ZU, 14) := HD(ZU, 14) + KAP
    END
    ELSE GOTO L;
  END
END UMSETZ;


PROCEDURE GRUNDEIN;
BEGIN
  INTEGER I, J;
  RMATEIN(HD, 1, E, 1, F);
  RMATEIN(INST, 1, 7, 1, 17);
  FOR I := 1 STEP 1 UNTIL E DO FOR J := 1 STEP 1 UNTIL 5 DO
  ALTER(I, J) := ININT;
  FOR I := 1 STEP 1 UNTIL E DO FOR J := 1 STEP 1 UNTIL 5 DO
  POOL(I, J) := ININT;
  RMATEIN(ZEIT, 1, 6, 1, 36);
  FOR I := 1 STEP 1 UNTIL 22 DO SYC(I) := INREAL;
  FOR I := 1 STEP 1 UNTIL 9 DO STERIN(I) := INREAL;
  FOR I := 1 STEP 1 UNTIL 9 DO JAHRIN(I) := INREAL;
  FOR I := 1 STEP 1 UNTIL 9 DO ALGRU(I) := ININT;
  FOR I := 1 STEP 1 UNTIL 14 DO UST(I) := INREAL;
```

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      FOR I := 1 STEP 1 UNTIL 5 DO FLUK(I) := INREAL;
      FOR I := 1 STEP 1 UNTIL 6 DO
      FOR J := 0 STEP 1 UNTIL E + 1 DO WO(I, J) := ININT;
      RMATEIN(KUMZU, 1, E, 1, 5);
      RMATEIN(KUMAB, 1, E, 1, 5);
      FOR I := 1 STEP 1 UNTIL 9 DO ALAB(I) := INREAL;
      FOR I := 1 STEP 1 UNTIL E DO FOR J := 1 STEP 1 UNTIL E DO
BW(I, J) :=
      ININT;
      NEIN := ININT;
      RMATEIN(EIN, 1, NEIN, 1, 11);
    END GRUNDEIN;


    COMMENT ANFANGSEINGABE;
    FOR I := 1 STEP 1 UNTIL 36 DO ESP(I) := -100;
    GRUNDEIN;
    U := ENTIER(SYC(15));
    I := ININT;
    FOR J := 1 STEP 1 UNTIL I DO ESP(J) := ININT;
    EZ := 1;
    JAHRAN(1) := 0;
    FOR I := 2 STEP 1 UNTIL 9 DO JAHRAN(I) := JAHRAN(I - 1) +
JAHRAN(I - 1);
    FOR MON := ANF STEP 1 UNTIL MEND DO
    BEGIN
      NZA := 0;
      NL(1);
      OUTTEXT("EINGRIFFE ");
      FOR I := 1 STEP 1 UNTIL NEIN DO
      BEGIN
        IF ENTIRE(EIN(I, 1)) NOTGREATER MON AND
        ENTIRE(EIN(I, 2)) NOTLESS MON AND MOD(MON, ENTIRE
        (EIN(I, 3))) EQUAL 0 THEN
        BEGIN
          NZA := NZA + 1;
          OUTTEXT("D");
          OUTINT(I, 3);
          FOR J := 1 STEP 1 UNTIL 8 DO
          AKTEIN(NZA, J) := EIN(I, J + 3)
        END
      END I;
      IF MON EQUAL ESP(EZ) THEN
      BEGIN
        L: K := ININT;
        IF K EQUAL 10 THEN GOTO LLL;
        IF K NOTGREATER 3 OR K EQUAL 6 OR K EQUAL 11 THEN L := 3;
        IF K EQUAL 4 OR K EQUAL 5 THEN L := 2;
        IF K EQUAL 7 THEN L := 7;
        IF K EQUAL 9 THEN L := 6;
        IF K EQUAL 8 THEN L := 12;
        NZA := NZA + 1;
        OUTTEXT("M");
        OUTINT(K, 3);
```

```
        AKTEIN(NZA, 1) := K;
        FOR J := 2 STEP 1 UNTIL L + 1 DO
        AKTEIN(NZA, J) := INREAL:;
        GOTO LL;
      LLL: END MONESP;
      IF NZA GREATER 0 THEN
      BEGIN
        INTEGER ZI, ZA;


        REAL PROCEDURE NAEZI;
        BEGIN
          ZI := ZI + 1;
          NAEZI := AKTEIN(ZA, ZI)
        END;


        PROCEDURE MAEND(WERT);
          ARRAY WERT;
        BEGIN
          INTEGER I, J;
          I := ENTIRE(NAEZI);
          J := ENTIRE(NAEZI);
          IF J GREATER 100 THEN WERT(I, J - 100) := NAEZI ELSE
WERT(I, J) := WERT(I, J) + NAEZI
        END;


        PROCEDURE VAEND(VEK);
          ARRAY VEK;
        BEGIN
          INTEGER I;
          I := ENTIRE(NAEZI);
          IF I GREATER 100 THEN VEK(I - 100) := NAEZI ELSE
          VEK(I) := VEK(I) + NAEZI
        END;


        FOR ZA := 1 STEP 1 UNTIL NZA DO
        BEGIN
          SWITCH VERTEILER := V1, V2, V3, V4, V5, V6, V7, V8, V9,
V10, V11;
          ZI := 0;
          I := ENTIER(NAEZI);
          GOTO VERTEILER(I);
          V1:MAEND(HD);
          GOTO V10;
          V2:MAEND(INST);
          GOTO V10;
          V3:J := ENTIER(NAEZI;
          K := ENTIER(NAEZI);
          IF K GREATER 99 THEN
          WO(J, K - 100) := ENTIER(NAEZI)
          ELSE WO(J, K) := WO(J, K) + ENTIER(NAEZI);
```

```
    GOTO V10;
    V4:VAEND(SYC);
    GOTO V10;
    V5:VAEND(UST);
    GOTO V10;
    V6: MAEND(EMERG);
    GOTO V10;
    V7: J := ENTIER(NAEZI);
    FOR K := 1, 2, 3, 4, 6, 7 DO
    EMERG(J, K) := NAEZI;
    EMERG(J, 5) :=
    IF EMERG(J, 2) GREATER 1 THEN INST(EMERG(J, 3),
    EMERG(J, 4)) ELSE HD(EMERG(J, 3),
    EMERG(J, 4));
    IF AKTEM LESS J THEN AKTEM := J;
    GOTO V10;
    V8:J := ENTIER(NAEZI);
    IF NEIN LESS J THEN NEIN := J;
    FOR K := 1 STEP 1 UNTIL 11 DO EIN(J, K) := NAEZI;
    GOTO V10;
    V11:J := ENTIER(NAEZI);
    K := ENTIER(NAEZI);
    UMSETZ(J, K, ENTIER(NAEZI));
    GOTO V10;
    V9:J := ABS(ENTIER(AKTEIN(ZA, 2)));
    K := ENTIER(AKTEIN(ZA, 3));
    L := ENTIER(AKTEIN(ZA, 4));
    IF J LESS 1.5 THEN A := HD(K, L) ELSE
    BEGIN
      IF J GREATER 2.5 THEN A := WO(K, L) ELSE
      A := INST(K, L)
    END;
    IF (A GREATER AKTEIN(ZA, 5) AND AKTEIN(ZA, 2) GREATER 0)
    OR (A LESS AKTEIN(ZA, 5) AND AKTEIN(ZA, 2) LESS 0)
    THEN EIN(AKTEIN(ZA, 6), 2) := AKTEIN(ZA, 7);
  V10: END ZA;
  IF MON EQUAL ESP(EZ) THEN EZ := EZ + 1
END EINGRIFF;
HD(16, 1) := (HD(11, 2) + HD(18, 2)) * 4;
KAPA := ZEIT(1, 10);
PLAN := ZEIT(5, 2);
PG := ZEIT(3, 11);
WER := ZEIT(2, 3);
PB := ZEIT(4, 2);


COMMENT BEVOELKERUNGSMODELL;
GRENZ(1) := HD(1, 2) + HD(1, 3);
GREP(1) := HD(1, 17);
FOR I := 2 STEP 1 UNTIL E DO
BEGIN
  GRENZ(I) := GRENZ(I - 1) + HD(I, 2) + HD(I, 3);
  GREP(I) := GREP(I - 1) + HD(I, 17)
END I;
```

```
      OUTIMAGE;
      OUTINT(MON, 6);
      INST(7, 3) := GRENZ(E);
      INST(7, 5) := GREP(E);
      BEV := Q.0;
      FOR I := 1 STEP 1 UNTIL 9 DO
      BEGIN
        OUTINT(ALGRU(I), 5);
        REST(J, ALAB(I), ALGRU(I),
        SYC(8) * 0.0833 * STERIN(I));
        ALGRU(I) := ALGRU(I) - J;
        BEV := BEV + ALGRU(I);
        REST(K, TSUM(I), J, 0.5);
        OUTINT(J, 5);
        IF I GREATER 3 AND I LESS 9 THEN
        BEGIN
          FOR J := 1 STEP 1 UNTIL K DO
          BEGIN
            LTOT:L := RANDINT(1, GRENZ(E);
            U);
            FOR M := 1 STEP 1 UNTIL E DO
            BEGIN
              IF L NOTGREATER GRENZ(M) THEN
              BEGIN
                IF ALTER(M, I - 3) GREATER 0 THEN
                BEGIN
                  ALTER(M, I - 3)
                  := ALTER(M, I - 3) - 1;
                  WOMIN(M, 1);
                  IF HD(M, 2) NOTLESS 1 THEN
                  HD(M, 2) := HD(M, 2) - 1 ELSE HD(M, 3) := HD(M, 3)
- 1;
                  GOTO LE2
                END ELSE GOTO LTOT
              END LGR
            END M;
          LE2: END J
        END IGR3KL9;
        IF J GREATER 8 THEN
        BEGIN
          FOR J := 1 STEP 1 UNTIL K DO
          BEGIN
            LPES:L := RANDINT(1, GREP(E), U);
            FOR M := 1 STEP 1 UNTIL E DO
            BEGIN
              IF L NOTGREATER GREP(M) THEN
              BEGIN
                IF HD(M, 17) NOTLESS
                1 THEN
                BEGIN
                  HD(M, 17) := HD(M, 17) - 1;
                  WOMIN(M, 1);
                  GOTO LE1
                END ELSE GOTO
```

```
              LPES
            END LGR
          END M;
        LE1: END J
      END IGR8
    END IIIIIIIIIIIII;
    FOR I := 9 STEP - 1 UNTIL 2 DO
    BEGIN
      REST(K, ALZU(I), ALGRU(I - 1), 1 / (JAHRIN(I - 1) * 12));
      IF K GREATER 0 THEN
      BEGIN
        ALGRU(I) := ALGRU(I) + K;
        ALGRU(I - 1) := ALGRU(I - 1) - K;
        IF I EQUAL 4 THEN
        BEGIN
          REST(T, LESUM, K, 0.8);
          ALGRU(I) := ALGRU(I) - K + T
        END I4;
        IF I GREATER 5 THEN
        BEGIN
          GRENZ(1) := ALTER(1, I - 4);
          FOR J := 2 STEP 1 UNTIL E DO GRENZ(J) := GRENZ(J - 1) +
ALTER(J, I - 4);
          REST(R, ARE, K, 0.5);
          FOR J := 1 STEP 1 UNTIL R DO
          BEGIN
            LALT:L := RANDINT(1, GRENZ(E), U);
            FOR M := 1 STEP 1 UNTIL E DO
            BEGIN
              IF L NOTGREATER GRENZ(M) THEN
              BEGIN
                ALTER(M, I - 4) := ALTER(M, I - 4) - 1;
                IF I LESS 9 THEN ALTER(M, I - 3) := ALTER(M, I -
3) + 1 ELSE
                BEGIN
                  HD(M, 2) := HD(M, 2) - 1;
                  HD(M, 17) := HD(M, 17) + 1
                END;
                GOTO LE3
              END NG
            END M;
          LE3: END J;
        END IGR4;
      END KGR0
    END IIIII;
    REST(K, KIND, INST(7, 3), SYC(9) * 0.083333);
    OUTINT(K, 5);
    ALGRU(1) := ALGRU(1) + K;
    FOR I := 1 STEP 1 UNTIL 3 DO Q := Q + ALGRU(I);
    INST(7, 1) := BEV;
    INST(7, 2) := Q;
    INST(7, 4) := KPF := Q / INST(7, 3);
```

```
COMMENT LEHRLINGSWECHSEL;
IND(1) := 7;
IND(2) := 17;
IND(3) := 5;
IND(4) := 16;
FOR I := 1, 2 DO
BEGIN
  M := IND(I + 2);
  L := IND(I);
  REST(K, ABIL(I), HD(L, 2), 0.027777);
  REST(P, ARZU(I), K, 0.6);
  REST(Q, NABIL(I), HD(L, 3), 0.027777);
  REST(R, NARZU, Q, 0.5);
  A := HD(L, 14) / (HD(L, 2) + HD(L, 3));
  HD(M, 14) := HD(M, 14) + K * A;
  HD(L, 14) := HD(L, 14) - (K + Q) * A;
  HD(6, 14) := HD(6, 14) + Q * A;
  HD(L, 2) := HD(L, 2) - K;
  HD(M, 3) := HD(M, 3) + P;
  ALTER(M, 2) :=
  ALTER(M, 2) + P;
  HD(L, 3) := HD(L, 3) - Q;
  HD(6, 3) := HD(6, 3) + R;
  ALTER(6, 2) :=
  ALTER(6, 2) + R;
  K := K + Q;
  ALTER(L, 1) := ALTER(L, 1) - K;
  IF WO(1, L) GREATER K THEN WO(1, L) :=
  WO(1, L) - K ELSE
  BEGIN
    WO(6, L) := WO(6, L) - (K - WO(1, L));
    WO(1, L) := 0
  END
END;
IND(7) := HD(7, 1) - HD(7, 2);
IND(17) := HD(17, 1) - HD(17, 2);
M := IF HD(5, 9) GREATER HD(16, 9) THEN 7 ELSE 17;
N := IF M EQUAL 7 THEN 17 ELSE 7;
P := IF T LESS IND(M) THEN T ELSE IND(M);
IND(M + 1) := IF P EQUAL T THEN P - ENTIER(0.1 * P) ELSE P;
IND(N + 1) := T - IND(M + 1);
P := 0;
FOR I := M, N DO
BEGIN
  HD(I, 2) := HD(I, 2) + IND(I + 1);
  P := P + IND(I + 1);
  ALTER(I, 1) :=
  ALTER(I, 1) + IND(I + 1)
END;
IF T GREATER P THEN
BEGIN
  FOR I := 17, 7 DO
  BEGIN
    R := ENTIER(0.5 * (T - P) + 0.5);
```

```
          HD(I, 3) := HD(I, 3) + R;
          ALTER(I, 1) := ALTER(I, 1) + R
        END
      END;
      M := 0;
      FOR I := 1 STEP 1 UNTIL E DO
      BEGIN
        A := 0;
        K := L := 0;
        M := M + HD(I, 2) + HD(I, 3);
        FOR J := 1 STEP 1 UNTIL 5 DO
        BEGIN
          A := A + ALTER(I, J) *
          (JAHRAN(J + 3) + JAHRIN(J + 3) / 2);
          L := L + WO(J, I);
          K := K + ALTER(I, J);
        END J;
        WO(6, I) := HD(I, 2) + HD(I, 3) + HD(I, 17) - L;
        IF K GREATER 0 THEN HD(I, 6) := (A / K) / 8.57143 ELSE HD(I,
6) := 0
      END;


      COMMENT WOHNUNGSBERECHNUNG;
      FOR I := 1 STEP 1 UNTIL 5 DO
      BEGIN
        K := 0;
        FOR J := 1 STEP 1 UNTIL E DO K := K + WO(I, J);
        L := WO(I, 0) - K;
        IF L GREATER 0 THEN
        BEGIN
          A := WO(I, E + 1);
          FOR K := 1 STEP 1 UNTIL E DO
          BEGIN
            IF A LESS 0.25 * HD(K, 12) AND A GREATER 0.1 * HD(K, 12)
            THEN
            BEGIN
              J := WO(6, K);
              IF L GREATER WO(6, K) THEN
              BEGIN
                WO(I, K) := WO(I, K) + J;
                L := L - J;
                WO(6, K) := 0
              END ELSE
              BEGIN
                WO(6, K) := J - L;
                WO(I, K) := WO(I, K) + L;
                GOTO L1
              END
            END ALESS
          END K
        END LGROE;
      L1: END I;
      A := 0;
```

```
FOR I := 5 STEP 1 UNTIL 8 DO A := A + ALGRU(I);
INST(7, 11) := A / INST(7, 3) + KPF;
INST(7, 12) := ALGRU(9) / INST(7, 5);
INST(6, 1) := 1 / UST(8) * SYC(17) + 1 / UST(9) * SYC(18);
INST(2, 16) := INST(2, 5);
FOR I := 6, 8, 3, 17, 15 DO INST(2, I) := 0;
LONST := ENERG := ENT := AME := LME := 0;
INST(3, 10) := 0;


COMMENT LOHNERWARTUNGEN;
FOR J := 1 STEP 1 UNTIL 5 DO WO(J, E + 2) := 0;
C1 := 0;
FOR I := 1 STEP 1 UNTIL E DO
BEGIN
  A := 0;
  K := 0;
  HD(I, 25) := 0;
  FOR J := 1 STEP 1 UNTIL 5 DO
  BEGIN
    A := A + WO(J, I) * WO(J, E + 1);
    K := K + WO(J, I);
    WO(J, E + 2) := WO / (J,
    E + 2) + WO(J, I)
  END;
  HD(I, 15) := IF K LESS 1 THEN 0 ELSE A / K;
  INST(2, 3) := INST(2, 3) + A;


  COMMENT BERECHNUNG DER LOHNSTEUER DER AUSGABEN USW;
  C := HD(I, 24) - (HD(I, 24) - 1) * SYC(7);
  A := (1 / UST(8)) * SYC(17);
  B := (1 / UST(9)) * SYC(18);
  HD(I, 12) := HD(I, 15) + (A + B) * HD(I, 24) * INST(7, 11);
  A := A * C;
  B := B * C;
  AR(2) := HD(I, 9);
  AR(3) := HD(I, 20);
  AR(17) := HD(I, 19);
  INST(2, 15) := INST(2, 15) + HD(I, 3) * AR(3);
  AR(4) := 1;
  AR(5) := IF 0.75 * C NOTLESS 1 THEN 0.75 ELSE 1 / C;
  AR(19) := IF 0.5 * C NOTLESS 1 THEN 0.5 ELSE 1 / C;
  AR(6) := AR(7) := INST(7, 11);
  AR(21) := INST(7, 12);
  FOR K := 2, 3, 17 DO
  BEGIN
    C := AR(K + 2);
    M := HD(I, K);
    H := IF I EQUAL 7 OR I EQUAL 17
    THEN 1 ELSE AR(K + 4);
    LME := LME + C * H * A * M;
    AME := AME + C * H * B * M;
    IF AR(K) GREATER SYC(2) THEN
```

```
            BEGIN
              D := SYC(5) * ((AR(K) - SYC(2)) / SYC(3));
              G := SYC(1) + D;
              IF G GREATER SYC(4) THEN G := SYC(4);
              G := G * AR(K);
              LONST := LONST + M * G
            END ELSE G := 0;
            IF K EQUAL 2 THEN HD(I, 16) := G;
            D := C * A * H + C * H * B + HD(I, 15) + G;


            COMMENT DI ST DIE SUMME DER AUSGABEN;
            D := AR(K) - D;
            L := IF K GREATER 3 THEN 18 ELSE 14;
            HD(I, L) := HD(I, L) + D * M;
            HD(I, 25) := IF D LESS 0 THEN HD(I, 25) + K ELSE HD(I,
25);
            ENERG := ENERG + SQRT(HD(I, 24)) * M * UST(2);
            ENT := ENT + (C POWER 0.4) * M * UST(4);
          END KKKKKKKKKKK;
          FOR J := 14, 18 DO
          BEGIN
            A := HD(I, J);
            K := IF A LESS 0 THEN 6 ELSE 7;
            A := A * SYC(K) / 12;
            INST(3, 10) := INST(3, 10) - A;
            HD(I, J) := HD(I, J) + A;
            C1 := C1 + HD(I, J)
          END J;
          IF HD(I, 8) LESS 1 THEN HD(I, 8) := HD(I, 10);
          A := HD(I, 9);
          B := HD(I, 8);
          C := HD(I, 12) + HD(I, 16);
          D := A / HD(5, 9);
          G := HD(I, 11);
          IF A GREATER C THEN
          BEGIN
            IF A GREATER B THEN HD(I, 8) := B + 0.1 * (A - B)
            ELSE HD(I, 8) := B - 0.05 * (B - A);
            HD(I, 24) := HD(I, 24) + 0.05 * HD(I, 24);
          END ELSE
          BEGIN
            HD(I, 24) := HD(I, 24) - 0.09 * HD(I, 24);
            IF HD(I, 24) LESS 1
            THEN HD(I, 24) := 1;
            IF D LESS G THEN
            BEGIN
              H := G * HD(5, 9);
              IF B LESS H THEN HD(I, 8) := B + 0.2 * (H - B);
              HD(I, 11) :=
              G - 0.02 * G
            END ELSE HD(I, 11) := G + 0.02 * G
          END;
          IF I NOTGREATER 7 OR (I NOTLESS 14 AND I NOTGREATER 15) THEN
```

```
        BEGIN
          IF I LESS 8 THEN GEW := INST(1, 14) ELSE GEW := INST(3,
14);
          IF GEW GREATER 0 THEN HD(I, 8) := HD(I, 8) + .01 * HD(I,
9)
        END;
      END LOHNERWARTUNG;
      ROLAK := 0;
      Q := 0;
      G := IF SYC(11) GREATER 7 THEN 7 ELSE SYC(11);
      SYC(11) := SYC(11) - 0.1 * SYC(11);
      AR(8) := 3;
      AR(9) := 1.5;
      AR(10) := 0.3;
      AR(11) := 1;
      AR(12) := 2;
      AR(13) := 1.5;
      AR(18) := 0.2;
      G := G / 7;
      FOR I := 8, 9, 10, 11, 12, 13, 18 DO
      G := G + (HD(I, 4) / HD(I, 5)) * AR(I);
      G := (G / 10.5) * 7;
      INST(4, 1) := G;
      INST(4, 2) := SYC(11);
      FOR I := 1 STEP 1 UNTIL E DO
      BEGIN
        A := (HD(I, 9) - HD(I, 8)) / (INST(6, 1) * 10);
        IF A LESS - 1.4 THEN A := -1.4;
        B := 2.466 * LN(A + 1.5) - 1;
        HD(I, 7) := IF A LESS 0.5 THEN B ELSE 0.7095 + 0.2 * (A -
.5);
        IF HD(I, 7) LESS - 1 THEN HD(I, 7) := -1;
        IF HD(I, 7) GREATER 1 THEN HD(I, 7) := 1;


        COMMENT BERECHNUNG ARBEITSPLATZFLUKTUATION UND ERFAHRUNG;
        B := HD(I, 2) + HD(I, 3);
        IF B EQUAL 0 THEN A := HD(I, 23) := 0 ELSE
        A := HD(I, 23) := (G * 3 + 7 - (WO(6, I) / B) * 7 + (7 -
(HD(I, 3) / B) * 7) * 4 + 7 - HD(I, 13 ) / 80) * 7 / 9;
        C := 0.02 - (A / 7) * 0.01;
        D := 0.01 + (A / 7) * 0.01;
        Q := Q + HD(I, 2);
        ROLAK := ROLAK + A * HD(I, 2);
        A := (HD(I, 9) - HD(I, 10)) / INST(6, 1);
        IF A GREATER 65 OR A LESS - 65 THEN A := 65 * SIGN(A);
        ZWQ := IF A GREATER 0.1 THEN SQRT(A) ELSE 0.2;
        AWQ := IF A LESS - 0.1 THEN SQRT( - A) ELSE 0.2;
        IF HD(I, 7) GREATER 0 THEN AWQ := AWQ - (0.5 * AWQ * HD(I,
7));
        IF HD(I, 7) LESS 0 THEN AWQ := AWQ + AWQ * ABS(HD(I, 7));
        K := 0;
        AWQ := AWQ * C * HD(I, 2);
        FOR J := 1 STEP 1 UNTIL 5 DO
```

```
BEGIN
  T := ALTER(I, J);
  IF T GREATER 0 THEN
  BEGIN
    REST(L, KUMAB(I, J), AWQ, FLUK(J));
    IF L GREATER 0 THEN
    BEGIN
      L := IF T GREATER L THEN L ELSE T;
      IF ALGRU(J + 3) NOTLESS 2 * L THEN
      BEGIN
        ALGRU(J + 3) := ALGRU(J + 3) - 2 * L;
        M := RANDINT(1, 3, U);
        ALGRU(M) := ALGRU(M) - KPF;
        K := K + L;
        ALTER(I, J) := ALTER(I, J) - L;
        T := HD(I, 2) + HD(I, 3);
        IF T GREATER 0 THEN
        HD(I, 14) := HD(I, 14) - L * HD(I, 14) / T;
        WOMIN(I, L);
      END
    END
  END
END;
HD(I, 2) := HD(I, 2) - K;
HD(I, 21) := K;
K := 0;
M := HD(I, 1) - HD(I, 2);
IF M GREATER 0 THEN
BEGIN
  T := HD(I, 3);
  IF T LESS M THEN
  BEGIN
    M := M - T;
    HD(I, 2) := HD(I, 2) + T;
    HD(I, 3) := 0;
  END ELSE
  BEGIN
    HD(I, 3) := T - M;
    HD(I, 2) := HD(I, 2) + M;
    M := 0
  END;
  FOR J := 1 STEP 1 UNTIL 5 DO
  BEGIN
    L := RANDINT, -10, 10, U);
    T := ENTIER(POOL(I, J) + L * 0.01 * POOL(I, J));
    REST(L, KUMZU(I, J), T, FLUK(J) * ZWQ * D);
    IF L GREATER M - K THEN L := M - K;
    IF L GREATER 0 THEN
    BEGIN
      ALTER(I, J) := ALTER(I, J) + L;
      K := K + L;
      ALGRU(J + 3) := ALGRU(J + 3) + L * 2;
      T := RANDINT(1, 3, U);
      ALGRU(T) := ALGRU(T) + 2;
```

```
        T := HD(I, 2) + HD(I, 3);
        IF T GREATER 0 THEN
        HD(I, 14) := HD(I, 14) + L * HD(I, 14) / T;
      END
    END
  END ELSE
  BEGIN
    HD(I, 3) := HD(I, 3) - M;
    HD(I, 2) := HD(I, 2) + M
  END;
  HD(I, 2) := HD(I, 2) + K;
  HD(I, 22) := K;
  WO(6, I) := WO(6, I) + K;
END I - SCHLEIFE;
ROLAK := INST(5, 1) := ROLAK / Q;


COMMENT INTERNE FLUKTUATION;
FOR I := 1 STEP 1 UNTIL E DO
BEGIN
  J := HD(I, 1) - HD(I, 2);
  IF J GREATER 0"THEN
  BEGIN
    FOR K := 1 STEP 1 UNTIL E DO
    BEGIN
      IF BW(I, K) GREATER 0.5 THEN
      BEGIN
        A := IF HD(I, 9) GREATER HD(K, 20) THEN 0.3 ELSE 0.1;
        L := ENTIER(A * HD(K, 3));
        IF L GREATER J THEN L := J;
        UMSETZ(K, I, L);
        J := J - L
      END;
      IF BW(I, K) EQUAL 2 THEN
      BEGIN
        A := IF HD(I, 9) GREATER HD(K, 9) THEN 0.2 ELSE 0.01;
        L := ENTIER(A * HD(K, 2));
        IF L GREATER J THEN L := J;
        UMSETZ(K, I, L);
        J := J - L
      END
    END
  END
END I;
FOR I := 1 STEP 1 UNTIL 18 DO
BEGIN
  HD(I, 27) := HD(I, 26) / (HD(I, 1) * HD(I, 28));
  HD(I, 26) := HD(I, 26) - ((1 / 240) * HD(I, 1) * HD(I, 28));
  IF HD(I, 26) LESS 0 THEN HD(I, 26) := 0;
  IF HD(I, 27) GREATER 2 THEN HD(I, 27) := 2
END;


COMMENT BERECHNUNG DER BETRIEBSOPTIMA UND EFFEKTIVITAETEN;
```

```
      HD(5, 5) := HD(5, 2);
      HD(6, 5) := HD(5, 5) * 0.2;
      HD(7, 5) := HD(7, 2);
      HD(8, 5) := BEV / 1333;
      HD(9, 5) := (ALGRU(2) + ALGRU(3) + 0.3333 * ALGRU(1)) /
SYC(14);
      HD(10, 5) := BEV / 100;
      HD(11, 5) := BEV / 500;
      HD(12, 5) := BEV / 333;
      HD(13, 5) := BEV / 65;
      HD(14, 5) := HD(15, 2) / 6;
      HD(15, 5) := INST(3, 13) / 9113920;
      IF HD(15, 5) LESS 1 THEN HD(15, 5) := 1;
      HD(16, 5) := HD(11, 2) * 4 + HD(18, 2) * 3;
      HD(17, 5) := HD(17, 2);
      HD(18, 5) := BEV / 800;
      PD := HD(5, 2);
      HD(1, 5) := PD * 0.03;
      HD(2, 5) := PD * 0.05;
      HD(3, 5) := PD * 0.025
      NNAN := 0;
      FOR I := 1 STEP 1 UNTIL 7 DO NNAN := NNAN + HD(I, 2);
      HD(4, 5) := NNAN * 0.03;
      FOR I := 1 STEP 1 UNTIL E DO
      BEGIN
        HD(I, 5) := HD(I, 5) * 40;
        IF HD(I, 2) NOTLESS 1 THEN
        BEGIN
          A := (HD(I, 2) * 40) / HD(I, 5);
          IF A NOTGREATER 1 THEN HD(I, 4) :=
          (A POWER 2) ELSE
          BEGIN
            IF A NOTGREATER 3 THEN HD(I, 4) := SQRT(1 -
            (A - 1) / 2.5)
            ELSE HD(I, 4) := 0.44
          END
        END ELSE HD(I, 4) := 0;
        HD(I, 4) := IF HD(I, 13) NOTGREATER 100 + HD(I, 7) * 25 THEN
        HD(I, 4) * SQRT(1 - HD(I, 13) / (100 + HD(I, 7) * 25)) *
HD(I, 2) * HD(I, 13) * 0.37714 * SQRT(HD(I, 23))
        ELSE 0;


        COMMENT STREIK;
        G := IF I EQUAL 7 OR I EQUAL 17 THEN 1 ELSE INST(7, 11);
        IF (HD(I, 9) LESS HD(I, 20) OR HD(I, 9) LESS
        INST(6, 1) * G + HD(I, 15)) AND (I NOTEQUAL 8 AND I NOTEQUAL
11 AND
        I NOTEQUAL 18) THEN HD(I, 4) := 0;
        HD(I, 4) := HD(I, 4) * HD(I, 27);
      END EF WERTE AXIMA = 7;


      COMMENT BERECHNUNG DER PLANUNGSGUETE USW;
```

```
      FOR I := 36 STEP - 1 UNTIL 2 DO FOR J := 1 STEP 1 UNTIL 6 DO
      ZEIT(J, I) := ZEIT(J, I - 1);
      J := 0;
      FOR I := 5, 1, 2, 4 DO
      BEGIN
        J := J + 1;
        ZEIT(I, 1) := ((HD(J, 4) / HD(J, 5)) * 7 + HD(J, 6) +
((HD(J, 7) + 1) * 3.5)) / 3
      END JI;
      PD := HD(5, 4) * (HD(6, 4) / HD(6, 5)) / 6;
      A := PD + (PLAN / 7 * 0.2 * PD) + (HD(5, 6) / 7 * 0.2 * PD);
      A := A * UST(14);
      INST(1, 12) := 0.15 * ((7 - ZEIT(3, 3)) / 7) * ZEIT(6, 3);
      INST(1, 3) := IF A GREATER INST(1, 12) THEN ENTIER(A - INST(1,
12))
      ELSE 0;
      IF INST(1, 3) GREATER INST(4, 4) THEN INST(1, 3) := INST(4,
4);
      ZEIT(3, 1) := (HD(5, 7 ) + 1.001= * (KAPA / 2);
      IF INST(1, 3) GREATER INST(1, 1) THEN INST(1, 3) := INST(1,
1);
      INST(1, 2) := INST(1, 2) + INST(1, 3);
      INST(1, 1) := INST(1, 1) -
      INST(1, 3);


      COMMENT VERKAUF;
      K := RANDINT, -500, 500, U);
      ANFQ := SYC(16) + K;
      AQ := ANFQ + (WER / 7 * ANFQ) + (PG / 7 * ANFQ);
      IF INST(1, 13) GREATER INST(1, 15) THEN INST(1, 11) := ENTIER
(AQ * ((500 / INST(1, 13)) POWER 2) + 0.5)
      ELSE INST(1, 11) := ENTIER(AQ * (LN((INST(1, 15) / INST(1, 13)
- 0.9) * 100) / 2.302585) + 0.5);
      I := INST(4, 3);
      J := INST(1, 11);
      K := INST(1, 2);
      IF J GREATER K
      THEN
      BEGIN
        INST(1, 4) := IF K GREATER I THEN I ELSE K
      END
      ELSE
      BEGIN
        INST(1, 4) := IF I LESS J THEN I ELSE J
      END;
      ZEIT(6, 1) := INST(1, 4);
      INST(1, 2) := INST(1, 2) - INST(1, 4);
      INST(1, 16) := INST(1, 5);


      COMMENT KAPITALBERECHNUNG;
      FOR I := 5, 6 DO FOR J := 11, 12, 13 DO INST(I, J) := 0;
      INST(1, 6) := INST(1, 17) := 0;
```

```
      FOR I := 1 STEP 1 UNTIL 7 DO
      BEGIN
        INST(1, 6) := INST(1, 6) + HD(I, 9) *
        HD(I, 2);
        INST(1, 17) := INST(1, 17) + HD(I, 17) * HD(I, 19)
      END;
      A := IF INST(1, 5) LESS 0 THEN SYC(19) ELSE SYC(20);
      INST(1, 10) := INST(1, 5) * A / 12;
      INST(1, 8) := INST(1, 4) * INST(1, 13);
      INST(1, 7) := UST(1) * INST(1, 8);
      INST(1, 9) := INST(1, 1) * .5 + INST(1, 2);
      INST(1, 9) := INST(1, 9) + HD(5, 2) * 2 + HD(1, 2) * 15 +
HD(2, 2) * 250 + HD(3, 2) * 200 + HD(4, 2) * 5 + HD(7, 2) * 10;
      FOR I := -6, -7, 8, -9, 10, -17 DO
      BEGIN
        B := INST(1, ABS(I));
        IF I LESS 0
        THEN INST(5, 11) := INST(5, 11) + B ELSE INST(6, 11) :=
INST(6, 11) + B;
        INST(1, 5) := INST(1, 5) + B * SIGN(I)
      END KAPITAL FABRIK;


      COMMENT EINNAHMEN UND AUSGABEN STADTVERWALTUNG;
      FOR I := 9, 10, 12, 13 DO
      BEGIN
        INST(2, 6) := INST(2, 6) + HD(I, 2) * HD(I, 9);
        INST(2, 17) := INST(2, 17) + HD(I, 17) * HD(I, 19)
      END;
      FOR I := 8, 11, 16, 18 DO
      INST(2, 17) := INST(2, 17) + HD(I, 17) * HD(I, 19);
      INST(2, 8) := INST(2, 8) + INST(1, 7);
      ENERG := ENERG + 0.5 * INST(1, 3) * UST(2);
      ENT := ENT + 0.75 * INST(1, 3) * UST(4);
      INST(2, 1) := ENERG;
      INST(2, 2) := ENT;
      INST(2, 4) := LONST;


      COMMENT BEZAHLUNG LEHRLINGE;
      B := HD(17, 2) * HD(17, 9);
      AR(3) := (LME / (LME + AME)) * B;
      AR(4) := (AME / (LME + AME)) * B;


      COMMENT KAUFLEUTE;
      AR(1) := LME;
      AR(2) := AME;
      IND(1) := 11;
      IND(2) := 18;
      M := HD(11, 2) * UST(12);
      P := M + HD(18, 2) * UST(12);
      IND(3) := (HD(16, 2) * M) / P;
      IND(4) := HD(16, 2) - IND(3);
```

```
      IND(5) := 5;
      IND(6) := 7;
      FOR I := 1, 2 DO
      BEGIN
        K := IND(I);
        L := IND(I + 4);
        A := AR(I);
        INST(L, 8) := A;
        INST(L, 6) := IND(I + 2) * HD(16, 9);
        INST(L, 9) := A * UST(I + 7);
        INST(L, 7) := A * UST(L);
        B := SYC(12) * HD(K, 2);
        INST(2, 3) := INST(2, 3) + B;
        HD(K, 9) := A - INST(L, 6) - INST(L, 9) - INST(L, 7) - B -
AR(I + 2);
        INST(2, 8) := INST(2, 8) + INST(L, 7);
        IF HD(K, 2) GREATER 0 THEN HD(K, 9) := HD(K, 9) / HD(K, 2);
      END;


      COMMENT EINNAHMEN UND AUSGABEN AERZTE;
      K := ENTIER(BEV * (0.05 + 0.05 * (7 - ROLAK) / 7) + 0.5);
      L := ENTIER(BEV * 0.02 + 0.5);
      M := RANDINT(K - L, K + L, U);
      B := SYC(13) * HD(8, 2);
      INST(2, 3) := INST(2, 3) + B;
      HD(8, 9) := (M * SYC(10) - B) / HD(8, 2);
      INST(2, 13) := M * SYC(10);


      COMMENT BANK;
      INST(3, 16) := INST(3, 5);
      FOR I := 6, 3, 17 DO INST(3, I) := 0;
      FOR I := 14, 15 DO
      BEGIN
        INST(3, 6) := INST(3, 6) + HD(I, 2) * HD(I, 9);
        INST(3, 17) := INST(3, 17) + HD(I, 17) * HD(I, 19)
      END;
      K := IF INST(2, 5) LESS 0 THEN 21 ELSE 22;
      INST(2, 10) := INST(2, 5) * (SYC(K) / 12);
      INST(3, 3) := INST(2, 10) + INST(1, 10);
      C := C1 + INST(1, 5) + INST(2, 5) + INST(3, 5);
      INST(3, 12) := C1;
      INST(3, 13) := C;
      INST(3, 9) := HD(14, 2) * 100 + HD(15, 2) * 50;
      IF C GREATER 0 THEN
      BEGIN
        K := ENTIER((1 - UST(11) / 100) * UST(10) + 0.5);
        L := RANDINT( - K, K, U);
        C := C * (UST(6) + ((1 - UST(11) / 100) * UST(13)) + L) /
100;
        INST(3, 8) := C * (((HD(14, 4) / HD(14, 5)) * 3 + HD(15,
4) / HD(15, 5)) / 4)
      END ELSE INST(3, 8) := 0;
```

```
      IF INST(3, 8) GREATER 400000 THEN INST(3, 8) := 400000 +
RANDINT, -50000, 50000, U);
      FOR I := -3, -6, -7, 8, 10, -9, -17 DO
      BEGIN
        B := INST(3, ABS(I));
        IF I LESS
        0 THEN INST(5, 13) := INST(5, 13) + B ELSE INST(6, 13) :=
INST(6, 13) + B;
        INST(3, 5) := INST(3, 5) + B * SIGN(I)
      END KAPITAL BANK;
      INST(3, 14) := INST(3, 5) - INST(3, 16);
      INST(3, 7) := IF INST(3, 14) GREATER 0 THEN INST(3, 14) *
UST(3) ELSE 0;
      INST(2, 8) := INST(2, 8) + INST(3, 7);


      COMMENT GEWINN - UND VERLUSTRECHNUNG STADT;
      INST(2, 9) := (HD(10, 2) + HD(13, 2) + HD(12, 2)) * 13 + HD(9,
2) * 15 + 50 + 833;
      FOR I := -1, -2, 3, 4, -6, 8, 10, -9, -13, -17, -15 DO
      BEGIN
        B := INST(2, ABS(I));
        IF I LESS 0 THEN INST(5, 12) := INST(5, 12) + B ELSE INST(6,
12) :=
        INST(6, 12) + B;
        INST(2, 5) := INST(2, 5) + B * SIGN(I)
      END KAP STADT;
      FOR I := 1, 2, 3 DO INST(I, 14) := INST(I, 5) - INST(I, 16);
      FOR I := 1 STEP 1 UNTIL AKTEM DO
      BEGIN
        A := IF EMERG(I, 2) GREATER 1 THEN INST(EMERG(I, 3),
        EMERG(I, 4)) ELSE HD(EMERG(I, 3);
        EMERG(I, 4));
        B := IF EMERG(I, 1) LESS 1 THEN EMERG(I, 5) / A ELSE A;
        IF EMERG(I, 7) LESS 0 THEN
        BEGIN
          AB := IF B LESS
          EMERG(I, 6) THEN TRUE ELSE FALSE
        END ELSE
        BEGIN
          AB := IF B GREATER EMERG(I, 6) THEN TRUE ELSE FALSE
        END;
        EMERG(I, 5) := A;
        IF AB THEN
        BEGIN
          OUTIMAGE;
          OUTTEXT("ABBRUCH");
          OUTINT(I, 5);
          GOTO LAUS
        END
      END I;
      FOR I := 1 STEP 1 UNTIL 18 DO
      BEGIN
        IF HD(I, 2) GREATER 0 AND
```

```
        HD(I, 4) NOTGREATER 0 THEN
        BEGIN
          NL(2);
          OUTTEXT("STREIK");
          AB := TRUE;
          GOTO LAUS
        END
      END;
      IF INST(3, 13) LESS INST(3, 1) THEN
      BEGIN
        NL(2);
        OUTTEXT("ZU HOHE VERSCHULDUNG");
        AB := TRUE;
        GOTO LAUS
      END;
      LAUS:
      IF MOD(MON, AUS) EQUAL 0 OR AB OR MON EQUAL MEND THEN
GRUNDAUS;
      IF AB OR MON EQUAL MEND THEN
      BEGIN
        NL(5);
        OUTINT(CODE, 10);
        OUTINT(MON + 1, 10);
        MATA(HD, WO, 1, E, 1, F, 15, 2, -1);
        MATA(INST, WO, 1, 7, 1, 17, 15, 2, -1);
        MATA(HD, ALTER, 1, E, 1, 5, 6, 0, 1);
        MATA(HD, POOL, 1, E, 1, 5, 6, 0, 1);
        MATA(ZEIT, WO, 1, 6, 1, 36, 10, 2, -1);
        VEKA(SYC, GREP, 1, 22, 10, 4, -1);
        VEKA(STERIN, GREP, 1, 9, 10, 4, -1);
        VEKA(JAHRIN, GREP, 1, 9, 10, 4, -1);
        VEKA(SYC, ALGRU, 1, 9, 15, 0, 1);
        VEKA(UST, GREP, 1, 14, 10, 4, -1);
        VEKA(FLUK, GREP, 1, 5, 10, 4, -1);
        MATA(HD, WO, 1, 6, 0, E + 1, 6, 0, 1);
        MATA(KUMZU, WO, 1, E, 1, 5, 10, 7, -1);
        MATA(KUMAB, WO, 1, E, 1, 5, 10, 7, -1);
        VEKA(ALAB, GREP, 1, 9, 10, 7, -1);
        MATA(HD, BW, 1, E, 1, E, 3, 0, 1);
        OUTINT(NEIN, 5);
        MATA(EIN, WO, 1, NEIN, 1, 11, 12, 1, -1);
        GOTO EEE
      END ABBRUCHAUSGABE;
    END MON - SCHLEIFE;
    EEE: END
END
```