

AKADEMIA SZTABU GENERALNEGO WP
im. generała broni Karola Świerczewskiego

INSTYTUT DOWODZENIA

JAWNE

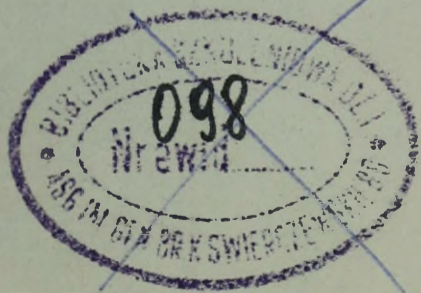
~~Do użytku służbowego~~

~~XXXXXXXXXX~~
Egz. Nr 5

**KOMPUTEROWY MODEL KIEROWANIA WALKĄ
I OCENY EFEKTYWNOŚCI GRUPY JEDNOSTEK WR OPK
W PROCESIE ODPARCIA NALOTU PRZECIWNIKA
POWIETRZNEGO**

Część IV

Program na EMC MIŃSK-32



Autor algorytmu:

ppłk dr inż. Roman KULCZYCKI

Autorzy programu:

**mgr Grażyna SOJA
por. mgr inż. Henryk KIEREBIŃSKI
mgr Leon PŁASKONKA**

WARSZAWA

STYCZEŃ

1975

45955



AKADEMIA SZTABU GENERALNEGO WP
im. generała broni Karola Świerczewskiego

INSTYTUT DOWODZENIA

JAWNE

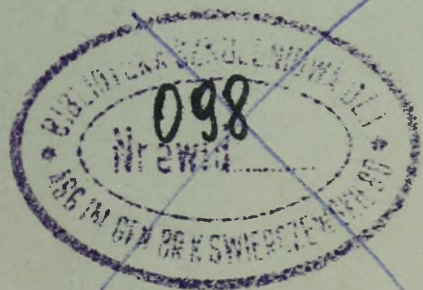
~~Do użytku służbowego~~

~~XXXXXXXXXX~~
Egz. Nr 5

**KOMPUTEROWY MODEL KIEROWANIA WALKĄ
I OCENY EFEKTYWNOŚCI GRUPY JEDNOSTEK WR OPK
W PROCESIE ODPARCIA NALOTU PRZECIWNIKA
POWIETRZNEGO**

Część IV

Program na EMC MIŃSK-32



Autor algorytmu:

pplk dr inż. Roman KULCZYCKI

Autorzy programu:

mgr Grażyna SOJA
por. mgr inż. Henryk KIEREBIŃSKI
mgr Leon PŁASKONKA

WARSZAWA

STYCZEŃ

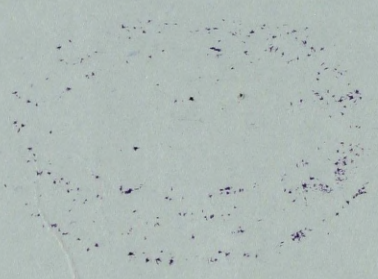
1975

45955

1911

PROCEEDINGS OF THE

ANNUAL MEETING



Faint, illegible text at the bottom of the page, possibly bleed-through from the reverse side.

TAJNE
Jawke
Lubowego

PRZEKLASYFIKOWANO
Protokół Nr 12657

```

LIST
READ FROM(MT,ROBAK,SALWS)
OVERLAY PROGRAM(SALW)
COMPRESS INTEGER AND LOGICAL
INPUT 2=CR1
INPUT 3=TR1
OUTPUT 10=TYO
USE 8=/ARRAY
USE 5=/ARRAY
OUTPUT 1=LPT
CREATE 4=MT2/(DANE)
USE 6=MT2/(DANE)
OVERLAY(1,1) SSS1
OVERLAY(1,2) SSS1A
OVERLAY(1,3) SSS2
OVERLAY(1,4) SSS3
OVERLAY(1,5) SSS4
OVERLAY(1,6) SSS5
OVERLAY(1,7) SSS1B
OVERLAY(1,8) BAZ1B
OVERLAY(1,9) SSS7
OVERLAY(1,10) SSS5
OVERLAY(1,11) OBRAZ
OVERLAY(1,12) WYDR
OVERLAY(1,13) BAZ1A
OVERLAY(1,14) BAZA1
OVERLAY(1,15) BAZA2
OVERLAY(1,16) CEL2
OVERLAY(1,17) DANE
OVERLAY(1,18) CELE
OVERLAY(1,19) IKAR
OVERLAY(1,20) OBR1
OVERLAY(1,21) ANSAL
OVERLAY(1,22) AKT9
OVERLAY(1,23) AKTUL
OVERLAY(1,24) ART1
OVERLAY(1,25) ART11
OVERLAY(1,26) AKT10
OVERLAY(1,27) EFEKT
END

```

TAJNE
0267 / DW
Plu. 14.02.75v.

098
N. 2010

Arch.
X45955

```

MASTER ALGOR
INTEGER AA(448), BB(27), SYMB(29), TC(25), AT(25), PS,
A KK(30), J6, V(3001), I6, H1, No, NUZWW(297), SYMC(29),
A NIZWI(128), KRYP(36), RBB(36), III, AAA(816), NN(10),
A NUZWW(209), BBB(9), KKK(32), I, A(120), POLE(3001),
A BLOK(16), BLOK2(3), BLOK4(4), BLOK6(4830), BLOK7(34),
A KLUCZ, ETYK, ALE, POLS(165), POL5(166), POL6, POL7, POL1(145),
A TABL(20), PST, S2, S3, S4, S5, S6, S7, S8, S9, S10,
A AY(25), II, IN, MT, BLOK9(58)
INTEGER CALK(965), WWA
INTEGER INTE(118)
REAL A11(64), B11(162), D2(25), D1(25), H1(25),
A Z11, XX(41), YY(41), Z1, Z2, Z4, Z5, A1(40), BLOK1(8), BLOK3(95),
A H2(25), BLOK5(3), XXX, POL2(330), POL4(165),
A PRZ1(4), PRZ2(4), Z111, Z112, BLOK8(285)
REAL PRZELZ(1606)
REAL REAL(75), LALA
COMMON /DRUK/ AA, BB, A11, B11, SYMB, D2, D1, H1, MT, TC, AT, AV,
A II, IN, Z11, XX, YY, Z1, Z2, Z4, Z5,
A KK, J6, V, I6, H1, No,
A NUZWW, SYMC, NIZWI, KRYP, RBB, III, AAA, NN, NUZWW, BBB, KKK, I, A,
A A1, POLE
COMMON /UUUU/ KLUCZ
COMMON /UNUN/ BLOK, BLOK1, BLOK2, BLOK3, BLOK4, BLOK5, BLOK9
COMMON /DRUL/ BLOK8
COMMON /DDDD/ BLOK7, BLOK8
COMMON /DRDR/ POL1, POL2, POL3, POL4, POL5

```

```

COMMON/DATE/POL6
COMMON/USDS/POL7
COMMON /TABL/CALK,WWA,PRZECZ
COMMON /GSOJA/LALA,INTE,REAL
CALL SSWTCH(1,S)
IF (S-1)0,8,0
EXTERNAL WWA
CALL FTRAP(WWA)
KLUCZ=0
CALL SSS1
CALL SSS1A
CALL SSS2
CALL SSS3
CALL SSS4
CALL SSS5
IF (BLOK(6)-3)103,0,103
103 CALL DANE
29 IF (BLOK(6)-4)29,0,29
90 CALL SSS1B
WRITE(10,90)
FORMAT (13HDANE DO BAZY2)
PAUSE
CALL SSWTCH(2,S)
IF (S-1)91,0,91
29 CALL SSS7
CALL SSS5
91 CALL SSOFF(2)
CALL ODRAZ(BLOK(5),BLOK(1),BLOK1(1),BLOK1(2),V,PRZ1)
CALL ODRAZ(BLOK(5),BLOK(2),BLOK1(3),BLOK1(4),POLE,PRZ2)
MT=6
31 WRITE(MT) V,POLE
24 WRITE(MT) AA,AB,A11,B11,SYMB,D2,D1,H1,H2,
AA TC,AT,AV,II,IN,Z11,XX,YY,PRZ1,PRZ2,
AA KK,J6,I6,M1,N6,NWZWW,SYMC,NIZWI,KRYP,
AA RBB,III,AAA,NNR,NUZWW,BBB,KKK,I,JA,A1,
AA KLUCZ,BLOK,BLOK1,BLOK2,BLOK3,BLOK4,
AA BLOK5,BLOK6,BLOK7,BLOK8,POL1,
A POL2,POL3,POL4,POL5,POL6,POL7
60 REWIND MT
PAUSE 1
CALL SSWTCH(5,S)
IF (S-1)3,0,3
CALL WYDR(V,BLOK(1),BLOK1(1),BLOK1(2),PRZ1)
CALL SSOFF(3)
3 GOTO 6
CALL SSWTCH(6,S)
IF (S-1)4,0,4
CALL WYDR(POLE,BLOK(2),BLOK1(3),BLOK1(4),PRZ2)
CALL SSOFF(6)
8 GOTO 6
MT=6
31 READ(MT) V,POLE
24 READ(MT) AA,AB,A11,B11,SYMB,D2,D1,H1,H2,
AA TC,AT,AV,II,IN,Z11,XX,YY,PRZ1,PRZ2,
AA KK,J6,I6,M1,N6,NWZWW,SYMC,NIZWI,KRYP,
AA RBB,III,AAA,NNR,NUZWW,BBB,KKK,I,JA,A1,
AA KLUCZ,BLOK,BLOK1,BLOK2,BLOK3,BLOK4,
A BLOK5,BLOK6,BLOK7,BLOK8,POL1,
31 POL2,POL3,POL4,POL5,POL6,POL7
40 REWIND MT
CALL SSOFF(1)
GO TO 40
4 CALL SSWTCH(7,S)
33 IF (S-1)6,0,6
CALL WYDR(V,BLOK(1),BLOK1(1),BLOK1(2),PRZ1)
CALL WYDR(POLE,BLOK(2),BLOK1(3),BLOK1(4),PRZ2)
CALL BAZ1A
CALL BAZ1B
CALL SSOFF(7)
40 IF (BLOK(6)-4)6,0,6
20 CALL BAZ1B
6 PAUSE 2
CALL SSWTCH(2,S)
IF (S-1)1,0,1
CALL BAZ1A
CALL BAZ1B
CALL BAZ1C
CALL SSOFF(2)

```

```

1  GOTO 5
   CALL SSWTCH(3,S)
   IF(S-1)2,0,2
   CALL BAZA1A
   CALL BAZA1
   CALL SHUFF(3)
   GOTO 5
2  CALL SSWTCH(4,S)
   IF(S-1)3,0,3
   CALL BAZA2
   CALL SHUFF(4)
5  CALL SSWTCH(1,S)
   IF(S-1)17,0,17
   WRITE(10,7)
7  FORMAT (51HAKTUALIZACJA OGOLNA BAZY DANYCH)
   PAUSE
23 CALL SSWTCH(8,ALE)
   ALE=ALE+1
16 READ(ALE,9) S1
   IF(KLUCZ)0,0,33
9  FORMAT (10)
   IF(S1-2)25,0,25
   CALL ART9
   GO TO 16
23 IF(S1-3)0,10,0
   IF(S1-4)0,11,0
   IF(S1-5)0,12,0
   IF(S1-6)0,13,0
   IF(S1-7)0,14,0
   IF(S1-8)26,0,26
31 DO 27 27#1,3
   READ(ALE,28) S7,XXX
28   FORMAT (10,F0.0)
   IF(KLUCZ)0,0,32
   IF(S7+1)0,16,0
   BLOKS(S7)=XXX
27 CONTINUE
   GOTO 16
26 IF(S1-1)0,22,0
18 WRITE(10,15)
15 FORMAT (19HBLEDNE DANE ACTUAL)
   PAUSE
   GO TO 16
10 CALL ARTUL
   GO TO 16
11 CALL ART11
   GO TO 16
12 CALL ART11
   GO TO 16
13 READ(ALE,55) (NN(S6),S6=1,10)
   IF(KLUCZ)0,0,24
55 FORMAT(52I0)
   READ(ALE,55) (BBB(S6),S6=1,9)
   IF(KLUCZ)0,0,24
   READ(ALE,55) (KKK(S6),S6=1,32)
   IF(KLUCZ)0,0,24
   DO 34 34#1,10
   IF(NN(S6))40,0,0
   IF(NN(S6)-2)0,0,40
34 CONTINUE
   DO 35 35#1,9
   IF(BBB(S6)-10)41,0,0
   IF(BBB(S6)-90)0,0,41
35 CONTINUE
   DO 30 30#1,32
   IF(KKK(S6))42,0,0
   IF(KKK(S6)-99)0,0,42
30 CONTINUE
   GO TO 16
40 WRITE(10,20)
20 FORMAT (17HBLEDNE INDOPRZYN)
   GO TO 15
41 WRITE(10,19)
19 FORMAT (17HBLEDNE INDQUZUPEL)
   GOTO 13
42 WRITE(10,54)
54 FORMAT (21HBLEDNE KODY SIATKI OP)
   GOTO 13

```



```

BLOCK DATA
INTEGER AA(48), BB(27), SYM1(20), P5(25), P6(25), P7(25), SYNC(29)
A III, A(614), N(10), NIZWI(128), KRYP(36), ROB(36), NUZWU(209)
A II, IN, KK(30), J6, V(3001), I6, M1, R6, NAZWA(207)
REAL A11(64), B11(162), P1(25), P2(25), P3(25), P4(25)
A 211, XX(41), YY(41), Z1, Z2, Z4, Z5
COMMON /OPU/ AA, BB, A11, B11, SYM1, P2, P1, P3, P4, P5, P6, P7
A II, IN, 211, XX, YY, Z1, Z2, Z4, Z5
A A KK, J6, V, I6, MT, R6
A NAZWA, SYNC
A NIZWI, KRYP, ROB, III, A, N, NUZWU
DATA ROB/10, 20, 30, 40, 50, 60, 70, 80, 90, 100, 110, 120, 130, 140, 150, 160,
A 170, 180, 190, 200, 210, 220, 230, 240, 250, 260, 270, 280, 290, 300, 310,
A 320, 330, 340, 350, 0/
DATA NUZWU(1)/44HPRZECIWNIK POWIETRZNY
DATA NUZWU(12)/44HOBECY SAMOLOT-NARUSZYCIEL GRANICY PANSTWOWEJ
DATA NUZWU(23)/44HSAMOLOT KONTROLNY
DATA NUZWU(54)/44HCELSAMOLOT BEZ SYGNALU ROZPOZNANIA
DATA NUZWU(55)/44HCELSAMOLO ZRODLO ZAKLOCEN
DATA NUZWU(56)/44HMYSLIWIEC WLASNY
DATA NUZWU(67)/44HSAMOLOT WLASNY-NARUSZYCIEL REZIMU LOTOW
DATA NUZWU(78)/44HSAMOLOT WLASNY ZGODNIE Z ZAMOWIENIEM
DATA NUZWU(89)/44HCELSAMOLOT Z SYGNALEM ROZPOZNANIA
DATA NUZWU(100)/44HCELSAMOLO CZICZEBNY
DATA NUZWU(111)/44HOBECY BALON POWIETRZNY
DATA NUZWU(122)/44HCELSAMOLO ZAKUCIONY
DATA NUZWU(133)/44HCELSAMOLO WYSZEDL ZE STREFY OBSERWACJI RLS
DATA NUZWU(144)/44HCELSAMOLO POMYLKOWY-ZDEJMUJE SIE Z POWIADAMIANIA
DATA NUZWU(155)/44HCELSAMOLO ZNISZCZONY
DATA NUZWU(166)/44HCELSAMOLO STOSUJACY MANEUR
DATA NUZWU(177)/44HCELSAMOLO NISKO LECACY
DATA NUZWU(188)/44HCELSAMOLO WYSOKO LECACY
DATA NUZWU(199)/44HCELSAMOLO NAWODNY
DATA NAZWA(1)/44HZESTAW RAKIETOWY S-75M -WOLCHOW
DATA NAZWA(12)/44HZESTAW RAKIETOWY SA-75M -DZWINA
DATA NAZWA(23)/44HZESTAW RAKIETOWY S-125 -HEWA
DATA NAZWA(34)/44HZESTAW RAKIETOWY -KRUG
DATA NAZWA(45)/44HZESTAW RAKIETOWY -KUB
DATA NAZWA(56)/44HZESTAW RAKIETOWY -STRZALA-2
DATA NAZWA(67)/44HZESTAW ARTYLERYJSKI S-60
DATA NAZWA(78)/44HZSU-23-4(2) SZYLKA
DATA NAZWA(89)/44HARTYLERIA PKM
DATA NAZWA(100)/44HBRONIONY PEJON
DATA NAZWA(111)/44HSTACJA SPB-7, SPB-8
DATA NAZWA(122)/44HSTACJA ZAKLOCEN LACZNOSCI
DATA NAZWA(133)/44HPUNKT NAPROWADZANIA TYPU A
DATA NAZWA(144)/44HPUNKT NAPROWADZANIA TYPU B
DATA NAZWA(155)/44HPUNKT NAPROWADZANIA TYPU C
DATA NAZWA(166)/44HPUNKT NAPROWADZANIA TYPU D
DATA NAZWA(177)/44HRADIOLOKACYJNY POSTERUNEK WYKRYWANIA TYPU A
DATA NAZWA(188)/44HRADIOLOKACYJNY POSTERUNEK WYKRYWANIA TYPU B
DATA NAZWA(199)/44HRADIOLOKACYJNY POSTERUNEK WYKRYWANIA TYPU C
DATA NAZWA(210)/44HRADIOLOKACYJNY POSTERUNEK WYKRYWANIA TYPU D
DATA NAZWA(221)/44HLOTNICTWO MYSLIWSKIE TYPU A
DATA NAZWA(232)/44HLOTNICTWO MYSLIWSKIE TYPU B
DATA NAZWA(243)/44HLOTNICTWO MYSLIWSKIE TYPU C
DATA NAZWA(254)/44HLOTNICTWO MYSLIWSKIE TYPU D
DATA NAZWA(265)/44HZESPRODKOWANIE WOJSK
DATA NAZWA(276)/44HNATARCIE WOJSK
DATA NAZWA(287)/44HSTANOWISKO DOWODZENIA
DATA SYM1/4H00+W, 4H00+D, 4H00+N, 4H00+K, 4H00+B, 4H00+S,
4H00/S, 4H00/Z, 4H00/P, 4H00+R, 4H00+L, 4H00+I,
4H00)A, 4H00)B, 4H00)C, 4H00)D, 4H00(A, 4H00(B,
4H00(C, 4H00(D, 4H00)JA, 4H00)B, 4H00)C, 4H00)D,
4H000, 4H000, 4H000=, 4H000, 4H000 /
DATA P1, P2, P3, P4, P5, P6, P7/2+7, 00, 10, 00, 2+0, 00, 0, 50, 0, 0, 2, 00,
A 3+0, 00, 2, 00, 0, 3+0, 00, 3, 4, 00, 27, 00, 17, 00, 2+0, 00, 0, 8, 00,
A 5, 00, 3, 00, 2, 00, 0, 0, 00, 2, 40, 00, 3, 00, 00, 2, 0, 00, 8, 00,
A 7, 00, 0, 0, 00, 1, 00, 0, 0, 00, 9, 00, 0, 0, 00, 7, 00, 0, 0, 1, 00, 0, 0,
A 11, 00, 12, 00, 13, 00, 0, 0, 00, 10, 0, 50,
A 0, 01, 2+0, 00, 0, 01, 06+0, 00, 0, 10, 03+0, 00, 0, 010, 03+0, 00, 0, 01, 04+0, 00,
A 32, 00, 30, 00, 17, 00, 2+0, 00, 5, 00, 5+0, 00, 0, 120, 00, 3, 00, 3, 00,
A 3, 00, 3+0, 00, 2, 00, 0, 3+0, 00, 2+95, 75, 72+07
END

```

```

SUBROUTINE SSS1A
INTEGER ETYK, ALE, I, S(16), KLUCZ, T1
REAL S1(8), T4
COMMON /UNU8/S, S1
COMMON /UUUU/KLUCZ
PAUSE 11
ASSIGN 2 TO ETYK
2 CALL SWITCH(8, ALE)
ALE = ALE + 1
READ(ALE, 3) S(1), (S1(I), I=1, 2), S(2),
A (S1(I), I=3, 6), (S1(I), I=7, 16)
IF(KLUCZ) 0, 0, 30
3 FORMAT (10, 2F0.0, 10, 4F0.0, 14I0)
17 DO 4 I=1, 2
IF(S(I)-1000000) 0, 0, 5
4 CONTINUE
DO 7 I=1, 6
IF(S1(I)-1000000) 8, 0, 0
T4 = 9999.999 * 1000
IF(S1(I)-T4) 0, 0, 8
7 CONTINUE
IF(S(3)) 10, 10, 0
IF(S(3)-99) 0, 0, 10
IF(S(4)-10) 12, 0, 0
IF(S(4)-360) 0, 0, 12
IF(S(5)-6) 12, 20, 0
IF(S(5)-8) 12, 0, 12
20 DO 19 I=6, 15
IF(S(I)) 12, 16, 0
IF(S(I)-9) 0, 0, 12
19 CONTINUE
IF(S(16)) 23, 0, 0
IF(S(16)-999) 0, 0, 23
GO TO 18
5 WRITE(10, 6)
6 FORMAT (12HBLEDNE SKALE)
PAUSE
CALL AKT9
GO TO 19
9 FORMAT (18HBLEDNE WSPOLRZEDNE)
8 WRITE(10, 9)
PAUSE
CALL AKT9
GOTO 12
10 WRITE(10, 11)
11 FORMAT (12HBLEDNA KOLU(7))
PAUSE
CALL AKT9
GO TO 19
12 WRITE(10, 13)
13 FORMAT (23HBLEDNA JEDNA Z KOL. 8-15)
PAUSE
CALL AKT9
GO TO 19
23 WRITE(10, 24)
24 FORMAT (13HBLEDNA KOLU(20))
PAUSE
CALL AKT9
GOTO 19
30 PAUSE 14
KLUCZ = 0
GO TO ETYK
18 WRITE(10, 21)
21 FORMAT (12HAKTUALIZACJA)
PAUSE
CALL SWITCH(1, T1)
IF(T1-1) 22, 0, 22
CALL AKT9
CALL SWOFF(1)
22 RETURN
END

```



```

IF (A(P)) 26,0,0
IF (A(P)-999) 0,0,26
15 CONTINUE
R=R+14
S=S+14
50 CONTINUE
GOTO 19
20 WRITE (10,71)
71 FORMAT (11H6LEDNA KOL1)
P=1
GOTO 100
21 WRITE (10,72)
72 FORMAT (11H6LEDNA KOL2)
P=2
GOTO 100
22 WRITE (10,73)
73 FORMAT (14H6LEDNA WSPOL.X)
P=3
GOTO 100
23 WRITE (10,74)
74 FORMAT (14H6LEDNA WSPOL.Y)
P=4
GOTO 100
24 WRITE (10,75)
75 FORMAT (11H6LEDNA KOL6)
P=5
GOTO 100
25 WRITE (10,76)
76 FORMAT (11H6LEDNA KOL7)
P=6
GOTO 100
26 WRITE (10,77)
77 FORMAT (15H6LEDNA KOL 8-17)
P=7
100 PAUSE
CALL AKTUL
GOTO (50,4,5,7,8,9,14),P
19 WRITE (10,78)
78 FORMAT (12HAKTUALIZACJA)
PAUSE
CALL SSWTCH(1,T)
IF (T-1) 50,0,30
CALL AKTUL
PAUSE 25
CALL SMOFF(1)
ASSIGN 17 TO ETYK
17 CALL SSWTCH(8,ALE)
ALE=ALE+1
J=1
N=4
O=1
E=18
DO 31 IN=1,50,3
N=IN+1
N1=IN+2
READ (ALE,32) B(IN),B(N),(KRYP(K),K=J,M)
32 IF (KLUCZ) 0,0,16
FORMAT (2I0,3A4,A2)
IF (B(IN)+1) 0,33,0
READ (ALE,38) (BT(C),C=D,E),B(N1)
38 IF (KLUCZ) 0,0,16
FORMAT (18F0,0,10)
J=J+4
M=M+4
E=E+18
D=D+18
31 CONTINUE
IN=25
GOTO 61
35 IF (IN-1) 47,57,0
IN=IN-3
61 D=1
E=18
DO 62 K=1,IN,3
N=K+1
N1=K+2
60 IF (B(K)) 40,40,0
IF (B(K)-99) 0,0,40

```

```

29 IF(B(N))41,0,0
IF(B(N)-99)0,0,41
39 IF(B(N1))42,0,0
IF(B(N1)-9999)0,0,42
44 DO 34 D#0,E
IF(B1(P))43,34,0
IF(B1(P)-1000000)43,0,0
IF(B1(P)-11)0,0,43
34 CONTINUE
J=J+4
M=M+4
D=18+D
E=18+E
62 CONTINUE
GOTO 46
40 WRITE(10,80)
80 FORMAT (11H6LEDNA KOL1)
P=1
GOTO 200
41 WRITE(10,81)
81 FORMAT (11H6LEDNA KOL2)
P=2
GOTO 200
42 WRITE(10,82)
82 FORMAT (12H6LEDNA KOL13)
P=3
GOTO 200
43 WRITE(10,83)
83 FORMAT (18H6LEDNE WSPOLRZEDNE)
P=4
200 PAUSE
CALL AKT1
GOTO (00,29,39,44)P
16 PAUSE 24
KLUCZ=0
GOTO ETYK
46 WRITE(10,84)
84 FORMAT (12HAKTUALIZACJA)
PAUSE
CALL SSWTCH(1,T)
IF(T-1)47,0,47
CALL AKT1
47 CALL SHOFF(1)
RETURN
END

```

```

SUBROUTINE SSS3
INTEGER A(814), ROB(36), PE, P, K, I, E1, F1, W, E2, F2, T, I1, K1,
AA(448), BB(27), SYMB(29), TFC(25), AT(25), AV(25),
NHZWN(297), SYNC(29), NAZWA(128), KRYP(36),
ALE, KLUCZ,
II, IN, KK(30), J6, V(3001), P16, H1, M6
REAL A11(64), B11(162), D2(25), D1(25), H1(25), H2(25),
Z11, XX(41), YY(41), Z1, Z2, Z4, Z5
COMMON /DRUR/ AA, BB, A11, B11, SYMB, D2, D1, H1, H2, TFC, AT, AV,
II, IN, Z11, XX, YY, Z1, Z2, Z4, Z5,
KK, J6, V, P16, M6,
NHZWN, SYNC, NAZWA, KRYP, ROB, I, A
COMMON /UUUU/ KLUCZ

```

1
3
4
21
15
5
22
10
51
11
52
8
14
53
20

```

PAUSE 33
CALL SSWTCH(8, ALE)
ALE = ALE + 1
E = 2
F = 37
DO 2 I = 1, 778, 37
READ(ALE, 3) A(I)
IF(KLUCZ) 0, 0, 8
FORMAT(37I0)
IF(A(I) + 1) 0, 4, 0
READ(ALE, 3) (A(K), K = E, F)
IF(KLUCZ) 0, 0, 8
F = F + 37
E = E + 37
CONTINUE
I = 778
GO TO 21
IF(I - 1) 20, 20, 0
I = I - 37
E = 2
F = 37
DO 22 K1 = 1, 1, 37
IF(A(K1)) 10, 10, 0
IF(A(K1) - 99) 0, 0, 10
DO 5 K = E, F
IF(A(K)) 11, 0, 0
IF(A(K) - 999) 0, 0, 11
CONTINUE
E = E + 37
F = F + 37
CONTINUE
GO TO 14
WRITE(10, 51)
FORMAT(12H8 LEDNY NR. JW)
PAUSE
CALL AKI11
GOTO 21
WRITE(10, 52)
FORMAT(14H8 LEDNE STOPNIE)
PAUSE
CALL AKI11
GOTO 21
PAUSE 34
KLUCZ = 0
GO TO 1
WRITE(10, 53)
FORMAT(12H8 AKTUALIZACJA)
PAUSE
CALL SSWTCH(1, T)
IF(T - 1) 20, 0, 20
CALL AKI11
CALL SNOFF(1)
RETURN
END

```



```

SUBROUTINE SSS6
INTEGER M,N,X,Y,I,J,A(120),K,L,PNT,NW,OC,CDP
A A AA(448),BB(27),SYMB(29),TC(25),AT(25),AV(25)
A A II,IN,AK(30),J6,V(3001),I6,M1,N6,TABL(20),
A A NNZWW(297),SYMC(29),NIZWI(128),KPYP(36),
A A RB(36),III,AAA(814),NN(10),NUZHU(209),BBB(9),KKK(32),
A A E,F,G,H,KLUCZ,ALE,S(16)
REAL A1(40),ROB,ROBX,ROBY,ROBX1,ROBY1,S1(8)
A A A11(64),B11(162),DZ(25),D1(25),H1(25),H2(25)
A A Z11,XX(41),YY(41),Z1,Z2,Z4,Z5
REAL ROB10,Z111,Z112
COMMON /ORU/AA,BB,A11,B11,SYMB,DZ,D1,H1,H2,TC,AT,AV,
A A II,IN,Z11,XX,YY,Z1,Z2,Z4,Z5
A A KK,J6,V,I6,M1,N6
A A NNZWW,SYMC,NIZWI,KPYP,RRB,III,AAA,NN,NUZHU,BBB,KKK,II,A,
A A A1
COMMON /UUUU/KLUCZ
COMMON /UNUM/S,S1
Z111=0.000001+S1(2)
Z111=AI:NT(Z111)
Z112=0.000001+S1(4)
Z112=AI:NT(Z112)
IF(Z111-Z112)0,105,105
Z11=Z111
CALL SSI(S1(3),S1(4),Z11)
GO TO 104
105 Z11=Z112
CALL SSI(S1(1),S1(2),Z11)
104 CALL SSI(S1(5),S1(6),Z11)
CALL DEFBUF(5,80,TABL)
PAUSE S5
10 CALL SSWTCH(8,ALE)
ALE=ALE+1
X=-1
Y=0
DO 1 I=1,11,6
CALL READT(TABL,ALE)
READ(S,2) A(I)
IF(KLUCZ)0,0,18
2 FORMAT(4I0,2F0.0,Z10)
IF(A(I)+1)0,5,0
L=I+4
P=I+5
X=X+2
Y=Y+2
J=I+1
N=I+3
READ(S,2) A(I),(A(K),K=J,N),A1(X),A1(Y),A(L),A(P)
IF(KLUCZ)0,0,18
1 CONTINUE
I=115
GOTO 20
5 I=I-6
DO 6 K=1,I,6
IF(A(K))11,11,0
IF(A(K)-99)0,0,11
6 CONTINUE
DO 7 K=2,J,6
IF(A(K))12,0,0
IF(A(K)-99)0,0,12
7 CONTINUE
M=I+2
DO 8 K=3,M,6
IF(A(K))27,27,0
IF(A(K)-99999)0,0,27
IF(A(K)-1)27,27,0
IF(A(K)-1)-99999)0,0,27
26 CONTINUE
DO 8 K=5,L,6
IF(A(K))13,0,0
IF(A(K)-999)0,0,13
8 CONTINUE
DO 9 K=6,P,6
IF(A(K))14,0,0
IF(A(K)-99)0,0,14
9 CONTINUE
ROB=9999.999+1000
24 DO 10 K=1,Y

```

```

IF(A1(X)-1000000)15,070
IF(A1(Y)-ROB)0,0215
10 CONTINUE
GOTO 30
11 WRITE(10,121)
121 FORMAT (19H6LEDNE DANE W KOL.1)
      K=1
      GOTO 200
12 WRITE(10,122)
122 FORMAT (19H6LEDNE DANE W KOL.2)
      K=2
      GOTO 200
13 PAUSE 30
KLUCZ=0
GOTO 17
14 WRITE(10,123)
123 FORMAT (19H6LEDNE DANE W KOL.3)
      K=3
      GOTO 200
14 WRITE(10,124)
124 FORMAT (19H6LEDNE DANE W KOL.4)
      K=4
      GOTO 200
27 WRITE(10,128)
28 FORMAT (19H6LAD W KOL.3 ALBO 4)
      K=5
      GOTO 200
15 WRITE(10,125)
125 FORMAT (18H6LEDNE WSPOLRZEDNE)
      K=6
      PAUSE
      CALL AKT10
      GOTO (20,21,22,23,25,24),K
30 X=-1
Y=0
ROBX=0
ROBY=0
ROB=0
DO 31 Y=1,10
      P=R+5
      X=X+2
      Y=Y+2
      ROB10=FLOAT(A(P))
      CALL SST(A1(X),A1(Y),Z11)
      ROBX1=ROB10*A1(X)
      ROBY1=ROB10*A1(Y)
      ROBX=ROBX+ROBX1
      ROBY=ROBY+ROBY1
      ROB=ROB+ROB10
31 CONTINUE
S1(7)=ROBX/ROB
S1(8)=ROBY/ROB
WRITE(10,126)
126 FORMAT (12HAKTUALIZACJA)
PAUSE
CALL SWITCH(1,T)
IF(T-1)100,0,100
CALL AKT10
CALL SWOFF(1)
100 RETURN
END

```

```

SUBROUTINE SSSS
INTEGER A(486), K(1), W(
A E, F, G, H, E1, F1, G1, H1, D(486), C(486), X(280), Y(240),
A KLUCZ, ALE, ETYK,
A V(204), Z(286)
COMMON /DRUC/ A, B, C, X, Y, V, Z
COMMON /UUUU/ KLUCZ
PAUSE 67
ASSIGN 70 TO ETYK
70 CALL SWTCH(8, ALE)
ALE=ALE+1
READ(ALE, 1) (A(K), K=1, 486)
IF(KLUCZ) 0, 0, 73
1  FORMAT (48610)
3 DO 2 I=1, 486
IF(A(I)) 4, 0, 0
IF(A(I)-99) 0, 0, 4
2 CONTINUE
GOTO 5
4 WRITE(10, 81) I
81 FORMAT (17H#LAD DANYCH O NR. I3)
PAUSE
READ(ALE, 6) W
IF(KLUCZ) 0, 0, 73
6  FORMAT (10)
A(I)=W
GOTO 3
5  PAUSE 62
ASSIGN 74 TO ETYK
74 CALL SWTCH(8, ALE)
ALE=ALE+1
READ(ALE, 11) (B(K), K=1, 486)
IF(KLUCZ) 0, 0, 73
11  FORMAT (48610)
13 DO 12 I=1, 486
IF(B(I)) 14, 0, 0
IF(B(I)-99) 0, 0, 14
14  CONTINUE
GOTO 15
14  WRITE(10, 81) I
PAUSE
READ(ALE, 16) W
IF(KLUCZ) 0, 0, 73
16  FORMAT (10)
B(I)=W
GOTO 13
13  PAUSE 63
ASSIGN 77 TO ETYK
77 CALL SWTCH(8, ALE)
ALE=ALE+1
READ(ALE, 21) (C(K), K=1, 486)
IF(KLUCZ) 0, 0, 73
21  FORMAT (48610)
23 DO 22 I=1, 486
IF(C(I)) 24, 0, 0
IF(C(I)-99) 0, 0, 24
24  CONTINUE
GO TO 25
24  WRITE(10, 81) I
PAUSE
READ(ALE, 26) W
IF(KLUCZ) 0, 0, 73
26  FORMAT (10)
C(I)=W
GOTO 23
23  PAUSE 64
ASSIGN 83 TO ETYK
45 CALL SWTCH(8, ALE)
ALE=ALE+1
READ(ALE, 31) (X(I), I=1, 280)
IF(KLUCZ) 0, 0, 73
31  FORMAT (28010)
34 DO 32 I=1, 280
IF(X(I)) 33, 0, 0
IF(X(I)-99) 0, 0, 33
32  CONTINUE
GOTO 35
35  WRITE(10, 81) I

```

```

PAUSE
36 READ(ALE,36) W
IF(KLUCZ)0,0,73
36 FORMAT (10)
X(I)=W
GOTO 34
35 PAUSE 34
ASSIGN 46 TO ETYK
40 CALL SWITCH(8,ALE)
ALE=ALE+1
READ(ALE,37) (Y(I),I=1,240)
IF(KLUCZ)0,0,73
37 FORMAT (24010)
DO 39 I=1,240
38 IF(Y(I))40,0,0
IF(Y(I)-99)0,0,40
39 CONTINUE
GOTO 41
40 WRITE(10,81) I
PAUSE
READ(ALE,42) W
IF(KLUCZ)0,0,73
42 FORMAT (10)
Y(I)=W
GOTO 38
41 PAUSE 60
ASSIGN 7 TO ETYK
7 CALL SWITCH(8,ALE)
ALE=ALE+1
READ(ALE,50) (V(I),I=1,264)
IF(KLUCZ)0,0,73
50 FORMAT (26410)
DO 52 I=1,264
51 IF(V(I))53,0,0
IF(V(I)-99)0,0,53
52 CONTINUE
GO TO 55
53 WRITE(10,81) I
PAUSE
READ(ALE,54) W
IF(KLUCZ)0,0,73
54 FORMAT (10)
V(I)=W
GO TO 51
55 PAUSE 67
ASSIGN 10 TO ETYK
10 CALL SWITCH(8,ALE)
ALE=ALE+1
READ(ALE,57) (Z(I),I=1,286)
IF(KLUCZ)0,0,73
57 FORMAT (28610)
DO 59 I=1,286
58 IF(Z(I))60,0,0
IF(Z(I)-99)0,0,60
59 CONTINUE
GO TO 61
60 WRITE(10,81) I
PAUSE
READ(ALE,62) W
IF(KLUCZ)0,0,73
62 FORMAT (10)
Z(I)=W
GO TO 58
73 PAUSE 611
KLUCZ=0
GOTO ETYK
61 RETURN
END

```

```

SUBROUTINE SSS7
INTEGER A(440), X(440), Y(420), V(420), U(378), Z(204),
A I, W, E, F, G, H, K, ALE, KLUCZ, ETYK
A AA(486), B(486), C(486), XX(280), YY(240), VV(264), ZZ(286)
COMMON /DRUC/AA, B, C, XX, YY, VV, ZZ, A, X, Y, V, U, Z
COMMON /UUU0/KLUCZ
PAUSE 71
ASSIGN 1 TO ETYK
CALL SWITCH(8, ALE)
1 ALE=ALE+1
  READ(ALE, 2) (A(I), I=1, 440)
  IF(KLUCZ) 0, 0, 10
  2 FORMAT (440I0)
  7 DO 3 I=1, 440
    IF(A(I)) 5, 0, 0
    IF(A(I)-99) 0, 0, 5
  3 CONTINUE
  GO TO 4
  5 WRITE(10, 102) I
  102 FORMAT (17H$LEAD DANYCH O NR. 213)
  PAUSE
  READ(ALE, 6) W
  IF(KLUCZ) 0, 0, 10
  6 FORMAT (I0)
  A(I)=W
  GO TO 7
  4 PAUSE 72
  ASSIGN 11 TO ETYK
  CALL SWITCH(8, ALE)
  11 ALE=ALE+1
    READ(ALE, 14) (X(I), I=1, 440)
    IF(KLUCZ) 0, 0, 10
    14 FORMAT (440I0)
    16 DO 15 I=1, 440
      IF(X(I)) 17, 0, 0
      IF(X(I)-99) 0, 0, 17
    15 CONTINUE
    GO TO 16
    17 WRITE(10, 102) I
    PAUSE
    READ(ALE, 19) W
    IF(KLUCZ) 0, 0, 10
    19 FORMAT (I0)
    X(I)=W
    GOTO 16
    16 PAUSE 73
    ASSIGN 20 TO ETYK
    CALL SWITCH(8, ALE)
    20 ALE=ALE+1
      READ(ALE, 26) (Y(I), I=1, 420)
      IF(KLUCZ) 0, 0, 10
      26 FORMAT (420I0)
      27 DO 28 I=1, 420
        IF(Y(I)) 29, 0, 0
        IF(Y(I)-99) 0, 0, 29
      28 CONTINUE
      GOTO 30
      29 WRITE(10, 102) I
      PAUSE
      READ(ALE, 31) W
      IF(KLUCZ) 0, 0, 10
      31 FORMAT (I0)
      Y(I)=W
      GOTO 27
      30 PAUSE 74
      ASSIGN 23 TO ETYK
      CALL SWITCH(8, ALE)
      23 ALE=ALE+1
        READ(ALE, 36) (V(I), I=1, 420)
        IF(KLUCZ) 0, 0, 10
        36 FORMAT (420I0)
        37 DO 38 I=1, 420
          IF(V(I)) 39, 0, 0
          IF(V(I)-99) 0, 0, 39
        38 CONTINUE
        GOTO 40
        39 WRITE(10, 102) I
        PAUSE

```

```
41 READ(ALE,41) W
   IF(KLUCZ)0,0,10
   FORMAT (10)
   V(I)=W
   GOTO 37
40 PAUSE 75
   ASSIGN 32 TO ETYK
32 CALL SWITCH(8,ALE)
   ALE=ALE+1
   READ(ALE,46) (U(I),I=1,378)
   IF(KLUCZ)0,0,10
   FORMAT (37810)
40 DO 48 I=1,378
47 IF(U(I))49,0,0
   IF(U(I)-99)0,0,49
48 CONTINUE
   GOTO 50
49 WRITE(10,102) I
   PAUSE
   READ(ALE,51) W
   IF(KLUCZ)0,0,10
   FORMAT (10)
   U(I)=W
   GOTO 47
50 PAUSE 70
   ASSIGN 35 TO ETYK
35 CALL SWITCH(8,ALE)
   ALE=ALE+1
   READ(ALE,56) (Z(I),I=1,204)
   IF(KLUCZ)0,0,10
   FORMAT (20410)
50 DO 58 I=1,204
57 IF(Z(I))59,0,0
   IF(Z(I)-99)0,0,59
58 CONTINUE
   GOTO 60
59 WRITE(10,102) I
   PAUSE
   READ(ALE,61) W
   IF(KLUCZ)0,0,10
   FORMAT (10)
   Z(I)=W
   GOTO 57
10 PAUSE 77
   KLUCZ=0
   GOTO ETYK
60 RETURN
END
```

```

SUBROUTINE UBRAZ(WW,SS,BZZX,BZZY,V,PRZ)
  INTEGER M3,M6,N,N6,N7,I2,PP(41),G12,
  WU,N7,K(30),I6,IS,P(41),V(3001),
  G13,M1,M2,TTTT,
  SYMB(2Y),KAL,II,KALT,AA(448),KAL2,KAL3,
  K53,KDK,H,J6,K54,K55,I,T(41),T0,
  RT,RR,I3,I11,I14,KSK,IN,KSK1,BB(27),K52,
  SYMT,BLOK1(1601),BLOK2,SS,IW,SK,BLOK3(120),
  MPRT,G,LL,TTTT,C(3001),SK1,
  TC(25),AT(25),AV(25)
REAL Z2,Z1,X(41),Y(41),BLOK4(40),
Z11,Z7,Z8,S1,Z5,Z6,A11(64),R(41),DZ(25),
A,B,F,F1,B11(162),A1,B1,A4,B4,A2,B2,
Z9,Z10,Z22,Z3,Z4,BZZX,BZZY,
D1(25),H1(25),H2(25),PRZ(4)
COMMON /DRUK/AA,BB,A11,B11,SYMB,DZ,D1,H1,H2,TC,AT,AV,
  II,IN,Z11,X,Y,Z1,Z2,Z4,Z5,K2J,C,I6,M1,M6,
  BLOK1,BLOK2,BLOK3,BLOK4
DATA G12/4H /
DATA G13/4H U007/
DATA SYD1/4H 00007/

```

32

```

M3=50
Z2=FLOAT(WW)
Z2=Z2*100
Z2=Z2/54/22
M6=0
N=0
N7=0
K(1)=1
I6=1
DO 1 IS=1,40
  P(IS)=0
CONTINUE
S=FLOAT(SS)
IF(S)31,31,U
Z1=0.000254*3
Z2=Z2*S
X(1)=BZZX
Y(1)=BZZY
Z7=X(1)
Z8=Y(1)
M1=50
M2=100
N6=3000
DO 2 IS=1,3001
  V(IS)=G12

```

1

```

CONTINUE
S1=S+S
S1=0.001*S1
Z3=Z7+Z2
Z4=Z8+Z1
M=M2-1
Z5=FLOAT(M)
Z5=Z5*Z2
Z5=Z7+Z5
M=M1-1
Z6=FLOAT(M)
Z6=4+Z6
Z6=Z6+Z1
Z6=Z6+Z9
M=0
KAL2=-1
KAL3=0
PRZ(1)=Z1
PRZ(2)=Z2
PRZ(3)=Z6
PRZ(4)=Z5
DO 3 KAL=1,II,14
  KAL2=KAL2+2
  KAL3=KAL3+2
  KAL1=KAL+13
  G=AA(KAL1)/1000
  IF(G)0,400
  X(1)=A11(KAL2)
  Y(1)=A11(KAL3)
  CALL SS1(X(1),Y(1),Z11)
A11(KAL2)=X(1)
A11(KAL3)=Y(1)

```

2

```

CONTINUE
S1=S+S
S1=0.001*S1
Z3=Z7+Z2
Z4=Z8+Z1
M=M2-1
Z5=FLOAT(M)
Z5=Z5*Z2
Z5=Z7+Z5
M=M1-1
Z6=FLOAT(M)
Z6=4+Z6
Z6=Z6+Z1
Z6=Z6+Z9
M=0
KAL2=-1
KAL3=0
PRZ(1)=Z1
PRZ(2)=Z2
PRZ(3)=Z6
PRZ(4)=Z5
DO 3 KAL=1,II,14
  KAL2=KAL2+2
  KAL3=KAL3+2
  KAL1=KAL+13
  G=AA(KAL1)/1000
  IF(G)0,400
  X(1)=A11(KAL2)
  Y(1)=A11(KAL3)
  CALL SS1(X(1),Y(1),Z11)
A11(KAL2)=X(1)
A11(KAL3)=Y(1)

```

10

```

A=X(1)
B=Y(1)
RT=KAL+1
RR=AA(RT)
R(1)=DZ(RR)
R(1)=R(1)+1000
P(1)=RH
PP(1)=AA(KAL)
N=N+1
X(N+1)=A
Y(N+1)=B
R(N+1)=R(1)
P(N+1)=P(1)
PP(N+1)=PP(1)
GO TO 5
N=R-1
DO 5 I=1, N
IF(A-X(I+1))5,0,5
IF(B-Y(I+1))5,0,5
I11=I+1
I11=I11-1
DO 6 I=1, I11
X(I+1)=X(2+I)
Y(I+1)=Y(2+I)
R(I+1)=R(2+I)
P(I+1)=P(2+I)
R(1)=0
F=Z1+Z1
X(1)=X(1+I)
Y(1)=Y(1+I)-F
V(1)=SYMB(29)
CALL SS4(X, Y, Z1, Z2, Z4, Z5, K, J, V, I, M, N)
Y(1)=Y(1+I)+F
V(1)=SYMB(29)
CALL SS5(X, Y, Z1, Z2, Z4, Z5, K, J, V, I, M, N)
I=I+1
CALL SS4(X, Y, Z1, Z2, Z4, Z5, K, J, V, I, M, N, P, R, S, K)
Y(1)=Y(1+I)
CONTINUE
GO TO 7
CONTINUE
X(2+N)=0
Y(2+N)=0
P(2+N)=0
R(2+N)=0
F1=Z1/R(1)
F1=F1+F1
P(1)=SYMB(29)
CALL SS3(X, Y, P, R, K, V, A, B, T, F1, Z1, Z2, Z4, Z5, J, V, I, M, N, T, O)
X(1)=A
B=B-Z1
B=B-Z1
Y(1)=-Z1+B
DO 8 KAL=1, 5
Y(1)=Y(1)+Z1
V(1)=P(1)
CALL SS4(X, Y, Z1, Z2, Z4, Z5, K, J, V, I, M, N)
CONTINUE
K(1)=1
CONTINUE
K53=-16
K52=-17
DO 9 KSK=1, IN, 3
K52=K52+18
K53=K53+18
KSK=KSK+1
IF(BB(KSK)-25)0,10,0
IF(BB(KSK)-26)0,11,0
IF(BB(KSK)-27)0,12,0
X(1)=B11(K52)
Y(1)=B11(K53)
CALL SS1(X(1), Y(1), Z1)
B11(K52)=X(1)
B11(K53)=Y(1)
IF(M-20)0,13,13
V(1)=SYMB(27)
CALL SS5(X, Y, Z1, Z2, Z4, Z5, K, J, V, I, M, N)
IF(J)0,13,0

```

```

M=M+1
T=BB(KSK)
13 CALL SS2(X,Y,Z1,Z2,Z4,Z5,KPJ6,V,I3,P,I6,M1,N6,KSK)
X(1)=B11(K52+2)
Y(1)=B11(K53+2)
CALL SS1(X(1),Y(1),Z11)
B11(K52+2)=X(1)
B11(K53+2)=Y(1)
A1=X(1)
B1=Y(1)
A4=X(1)
B4=Y(1)
K54=K52+2
K55=K53+2
DO 14 KUK=1,7
K54=K54+2
K55=K55+2
X(1)=B11(K54)
IF(X(1))0,15,0
Y(1)=B11(K55)
CALL SS1(X(1),Y(1),Z11)
B11(K54)=X(1)
B11(K55)=Y(1)
A2=X(1)
B2=Y(1)
CALL SS3(K,Z1,Z2,Z4,Z5,A1,A2,B1,B2,KJ6,I6,M1,N6,X,Y,V)
A1=A2
B1=B2
14 CONTINUE
15 A2=A4
B2=B4
CALL SS3(K,Z1,Z2,Z4,Z5,A1,A2,B1,B2,KJ6,I6,M1,N6,X,Y,V)
GO TO 10
11 X(1)=B11(K52)
Y(1)=B11(K53)
CALL SS1(X(1),Y(1),Z11)
B11(K52)=X(1)
B11(K53)=Y(1)
IF(M-20)0,16,10
V(1)=SYMB(27)
CALL SS4(X,Y,Z1,Z2,Z4,Z5,KPJ6,V,I6,M1,N6)
IF(J6)0,16,0
M=M+1
T=BB(KSK)
16 CALL SS2(X,Y,Z1,Z2,Z4,Z5,KPJ6,V,I3,P,I6,M1,N6,KSK)
X(1)=B11(K52+2)
Y(1)=B11(K53+2)
CALL SS1(X(1),Y(1),Z11)
B11(K52+2)=X(1)
B11(K53+2)=Y(1)
A1=X(1)
B1=Y(1)
K54=K52+2
K55=K53+2
DO 17 KUK=1,7
K54=K54+2
K55=K55+2
X(1)=B11(K54)
IF(X(1))0,9,0
Y(1)=B11(K55)
CALL SS1(X(1),Y(1),Z11)
B11(K54)=X(1)
B11(K55)=Y(1)
A2=X(1)
B2=Y(1)
CALL SS3(K,Z1,Z2,Z4,Z5,A1,A2,B1,B2,KJ6,I6,M1,N6,X,Y,V)
A1=A2
B1=B2
17 CONTINUE
GO TO 9
14 X(1)=B11(K52)
Y(1)=B11(K53)
CALL SS1(X(1),Y(1),Z11)
B11(K52)=X(1)
B11(K53)=Y(1)
IF(M-20)0,9,9
V(1)=SYMB(27)
CALL SS4(X,Y,Z1,Z2,Z4,Z5,KPJ6,V,I6,M1,N6)

```

```

          IF (J6) 0, 9, 0
          M=M+1
          I=BB(KSK)
9      CALL SS2(X, Y, Z1, Z2, Z4, Z5, K, J6, V, I, I3, P, I6, M1, N6, KSK)
      CONTINUE
      KS2=KS2+1
      KS3=KS3+1
      DO 23
          KAL=1, BLOK2, 6
          KS2=KS2+2
          KS3=KS3+2
          X(1)=BLOK4(KS2)
          Y(1)=BLOK4(KS3)
          V(1)=SYM1
          CALL SS4(X, Y, Z1, Z2, Z4, Z5, K, J6, V, I, I3, P, I6, M1, N6)
          IF (J6) 0, 23, 20
          I=BLOK3(KAL)
          CALL SS2(X, Y, Z1, Z2, Z4, Z5, K, J6, V, I, I3, P, I6, M1, N6, KSK)
23
      CONTINUE
      IF (R) 22, 22, 0
      DO 21
          IS=1, N
          UPRT=IS+1
          CALL EXTRC(P(1), P(WPRT), 24096)
          IF (P(1)) 0, 0, 21
          IF (R(IS+1)) 0, 21, 0
          F1=Z1/R(IS+1)
          F1=F1+F1
          P(1)=SYMB(28)
          A=X(IS+1)
          B=Y(IS+1)
          R(1)=R(IS+1)
          TO=P(IS+1)
          CALL SS3(X, Y, P, R, K, V, A, B, T, F1, Z1, Z2, Z4, Z5, J6, N6, I, I3, P, I6, M1, N6, TO)
          X(1)=A
          Y(1)=B
          TTT=TO
          CALL EXTRC(Y(1), SYMB(TTT), 2613)
          Y(1)=Y(1)+Z1
          Y(1)=Y(1)+Z1
          CALL SS4(X, Y, Z1, Z2, Z4, Z5, K, J6, V, I, I3, P, I6, M1, N6)
          Y(1)=Y(1)-Z1
          CALL RRIC(Y(1), SYMB(TTT), 26)
          CALL SS4(X, Y, Z1, Z2, Z4, Z5, K, J6, V, I, I3, P, I6, M1, N6)
          Y(1)=Y(1)+Z1
          I=PP(IS+1)
          CALL SS2(X, Y, Z1, Z2, Z4, Z5, K, J6, V, I, I3, P, I6, M1, N6, KSK)
21
      CONTINUE
      GO TO 22
31
      PAUSE 111
      GOTO 32
22
      RETURN
      END

```

```

SUBROUTINE WYDR(V,SS,BZZX,BZZY,PRZ)
INTEGER AA(448),BB(27),SYMB(29),PTC(25),AT(25),AV(25),
A A I I,IND,SS,K(30),JG,V(3001),PIG,P1,H6,
A A NHZWW(297),SYMC(29),NIZMI(128),KRYP(36),RBB(36),
A A I I,AAA(314),NN(10),NUZRU(209),BBB(9),KKK(32),
A A I,PA(120),PC(3001),LL,I1,KKK,I2,G10,G11
REAL A11(64),B11(162),D2(25),D1(25),H1(25),R2(25)
A BZZX,BZZY,Z11,X(41),Y(41),Z1224,24,25,A1(40)
REAL PRZ(4)
DATA G10/4H0---/
DATA G11/4HID00/
WRITE(1,3) SS,BZZX,BZZY,PRZ(2),PRZ(1)
3 FORMAT (/77/3X,37HZOBRAZOWANIE SYTUACJI POMIETRZNEJ
A A 62HI UGRUPOWANIA JEDNOSTEK LM,WR I ART,
A A 28H OPK ZA OKRES OD,DO, /2H SP
A A 5R - 1:,17,2X,3HXB=,F8.0,2X,3HYB=,F8.0,
A A 1X,10HPRZYROSTX=,F6.0,1X,10HPRZYROSTY=,F6.0/121(1H=))
GOTO 10
WRITE(1,4)
4 FORMAT ( 121(1H=)/9H I NR : 74X,13H: N A Z W A,4X,1H: 74X,
A A 17HP O L O 2 E N I E 24X,1H: 74X,1H: 9X,
A A 32H OANE EWIDENCYJNO SPRAWOZDANIE 717X,1HI/2H I 26K,
A A 5H: 16X,1H: 25(1H)JONIM, C : 58(1H) 71HI/2H I,2X,
A A 4X,1H: 74X,14H: /KRYPIONIM, 3X,1H: 74X,1HX,4X,1H: 74X,1HY,
A A 1H: 2X,1H: 2X,1H: 2X,1H: 74X,1H: 2X,1H: 2X,1H: 2X,1H: 2X,
A A 1H: 2X,1H: 2X,1H: 2X,1H: 2X,1H: 2X,1H: 2X,1H: 2X,1H: 2X,
A A 1H: 2X,1H: 2X,1H: 2X,1H: 2X,1H: 2X,1H: 2X,1H: 2X,1H: 2X,
A A 1H: 2X,1H: 2X,1H: 2X,1H: 2X,1H: 2X,1H: 2X,1H: 2X,1H: 2X,
A A 1H: 2X,1H: 2X,1H: 2X,1H: 2X,1H: 2X,1H: 2X,1H: 2X,1H: 2X,
A A 2H: 2,2X,1H: 1X,2H13,2X,1H: 1X,2H14,2X,1H: 1X,
A A 2H15,2X,1H: 1X,2H16,2X,1H: 1X,2H17,1X,1HI/121(1H=))
10 LL=1
DO 70 I1=1,100
KKK=1
DO 71 I2=1,30
K(KKK)=V(LL+1)
KKK=KKK+1
LL=LL+1
71 CONTINUE
CALL EXTRC(K(1),K(1),G10)
K(1)=K(1)+G11
WRITE(1,27) K
27 FORMAT (1X,50A4)
70 CONTINUE
WRITE(1,80)
80 FORMAT (121(1H=))
33 RETURN
END

```



```
SUBROUTINE BAZA1
INTEGER AA(448), BB(27), SYMB(29), TC(25), AT(25), AV(25),
A A I I, IN, KK(30), J6, V(3001), I6, M1, N6,
A A NUZWW(297), SYMC(29), NIZWI(128), KYP(36), BBB(36),
A A I I I I, AAA(814), NN(10), NUZWO(209), BBB(9), KKK(32),
A A I I I I, A(120), Z, PL, A, J, K, D, E, F, S, W, U, V, I I, N, C,
A A N1, G, E1, F1, E2, F2, FF(2), VV(2), X, Y, O, R, I, B, F, V1
REAL A17(64), E1T(162), D2(25), D1(25), H1(25), H2(25),
A COMMON /DRUK/AA, BB, A11, B11, SYMB, D2, D1, H1, H2, TC, A1, AV,
A A I I, IN, Z11, XX, YY, Z1, Z2, Z4, Z5, A1(40)
A A KK, J6, V, I6, M1, N6,
A A NUZWW, SYMC, NIZWI, KYP, BBB, I I I, AAA, NN, NUZWO, BBB, KKK, I I I I, A,
A A A1
F WRITE(1,1) (NWZWW(I), I=1,11), SYMC(1),
1 FORMAT (///2H =,50(1H=),4X,59(1H=)/2H I,
GH I 45X,1H:4X,6H:SYMBI,4X,1HI,57X,
I 1HI/2H 1,10X,24NN A Z W A Z E S T A W U,11X,11H:KOD :WYD-I,
J 4X,1HI,5X,
K 68H: T A L E P R O G R A M O W E - T A B E L A - S T
L 4X,
M 1HI/2H 1,45X,11H: :RUKI,4X,1HI,57X,
N 1HI/2H =,50(1H=),4X,59(1H=)/3H I,
O 11A4,7H: 1 : A3,1HI,4X,
P 52HI 0 : 01 : D2 : H1 : H2 : TC : A1 :
R 2X,3HA2 1/50 1 :
S 11A4,7H: 2 : A3,1HI,4X,59(1H=))
L=23
I=52
DO 3 I=1,45
J=I+2
WRITE(1,2) (NWZWW(K), KK=L,M), J, SYMC(J), I, D1(I),
S D2(I), H1(I), H2(I), TC(I), AT(I), AV(I)
L=L+11
M=M+11
2 FORMAT (3H I,11A4,2H: /12,3H : A3,1HI,4X,2HI /12,2H :
T 4(F,42,10:):2(10,1H:),10,1HI)
3 CONTINUE
4 WRITE(1,4)
4 FORMAT (2H =,50(1H=),4X,59(1H=))
IF (II-1)25,45,0
5 WRITE(1,5)
5 FORMAT (/////////38X,
A 45HDANE EWIDENCYJNO = SPRAWOZDANCZE - TABELA - E///2H =,
A A 110(1H=)/2H I,8X,1H:4X,1H:16X,1H:25X,1H:4X,1H:49X,
A A 1HI/2H 1,7H NR :4X,1H:5X,9NN A Z W A,4X,1H:4X,
A A 17HP 0 L O Z E N I E,4X,1H:4X,1H:9X,
A A 32HDANE EWIDENCYJNO SPRAWOZDANCZE,8X,1HI/2H I,6X,1H:4X,1H:
A A 16X,1H:25X,1H:4X,1H:40X,1HI/2H I,6X,1H:5H R :16X,1H:
A A 25(1H:),1H:4H C :1H:49(1H:),1HI/14H I JW :
A A 17H 7KRYPTONIM7 :79X,1H:90X,
A A 1H:5X,1H:4X,10(1H:4X),1HI/2H I,6X,1H:4X,
A A 1H:16X,1H:10H X :10H Y :26H Z :4X,6H: 1 :
A A 5H 2 :5H 3 :5H 4 :5H 5 :5H 6 :5H 7 :5H 8 :5H 9 :
A A 5H 9 1/2H I,6X,1H:4X,1H:16X,1H:9X,1H:9X,1H:5X,11(1H:4X),
A A 1HI/2H I,109(1H:),1HI/2H I,6H 1 :6H 2 :7X,1H3,8X,1H:4X,
A A 1H4,4X,11H: S :6H 6 :5H 7 :5H 8 :5H 9 :5H 10 :
A A 5H 11 :5H 12 :5H 13 :5H 14 :5H 15 :5H 16 :5H 17 1/2H
A 110(1H=))
J=1
H=4
D=3
E=14
R=5
S=14
W=1
U=2
DO 7 I1=1,I1014
N=I1+1
WRITE(1,6) AA(I1),AA(N), (NIZWI(X), X=J,M),
A A11(O),A11(U), (AA(C), C=D,E)
6 FORMAT (2H 1,15,2H :13,3H :3A4,2,2H :7F9,10,1H:7F9,10,
A 1H:14,2H :13,1X,10(1H:14),1HI/2H I,109X,1HI)
J=J+4
H=H+2
D=D+14
E=E+14
```

```

R+S+14
R=U+2
J=W+2
CONTINUE
WRITE(1,3)
FORMAT(112(1H=),210(//))
IF(IN-1)26,26,0
CALL TIME(VV(1))
WRITE(1,9)
FORMAT(//738X;25HPOLOZENIE WOJSK NA DZIEK 2A426H GODZ 7
A 2A4//112(1H=)2H-106X,1H:74X,1H:16X,1H:79X,1H:63X,1H:76X
A 1HI/2H I,7H NR : 4X,13H: N A Z W A : 10H WSPOLRZ: 74X
A 38HMS POLRZEDNE PUNKTOW ZARYSU UGRUPOWANIA,21X,1H:20X,1HI/2H I,
A 6X,1H:74X,1H:16X,1H:11H: SO : 265X,1H:26X
A 1HI/2H I,7H NR : 4X,13H: N A Z W A : 10H WSPOLRZ: 74X
A 16X,1H:73(1H=)1H:76X,1HI/2H I,2X,5HJ : 74X
A 18H:7XRYPTONIA/ : 79X,1H:8(7X,1H:),26X,1HI/2H I,6X,1H:74X
A 1H:16X,1H:4X,1H:4X,1H:4X,1H:8(3X,1H:),22X,1H:3X,1HI/2H I,
A 4X,1H:4X,1H:16X,1H:4X,1H:18Y,4X,1H:8(5X,1H:),26X,
A 1HI/2H I,76X,1H:4X,1H:16X,1H:16X,1H:9X,1H:8(7X,1H:),26X,1HI/2H I
A 109(1H=)1H:12H I,12H I,2H I,7X,1H:3X,1H:2
A 9H:10X,1H:3X,1H:2X,2H11,3X,2H: 12 : 7H 13 : 1/112(1H=)
J=1
M=4
D=1
E=18
DO=10 I1=1,1N23
N=11+1
N1=11+2
L=E-1
G=D+1
WRITE(1,11) BB(I1),BB(N),((KRYP(K),K=J,M),B11(C),C=D,L,2))
A BB(N1),B11(C),C=G,E,2)
FORMAT(2H I,15,2H : I3,3H : 3A4,2H :
A 28.0,2H : 8F8.0,15,2H I/2H I,6X,1H:4X,1H:216X,1H:
A 28.0,2H : 8F8.0,6X,1HI/2H I,109X,1HI)
J=J+4
M=M+4
E=E+18
D=D+18
CONTINUE
WRITE(1,36)
FORMAT(112(1H=))
IF(III-1)27,27,0
WRITE(1,12) RBB
FORMAT(7731X;16HT A B E L A K A
A 40H T O W 2 A K R Y C I A SNR I PN(RLS)//120(1H=)/5H I,ST,
A 6HOPNIE,16(1H:75X),1HI/5H I,77X,18(1H:75X),1HI/5H I
A 4X,18(1H:5X),1HI/6H I,5X,1H:17(14,2H : )14
A 2H I/7H I,74X,1H:107(1H:),1HI/6H I,5X,1H:17(14,2H : )
A 14,2H I/11H I,RR : 718(1H:5X),1HI/11H I SNR, : 18(1H:75X)
A 1HI/11H IPN(RLS),18(1H:5X),1HI/120(1H=)
I1=111-37
E1=2
F1=19
E2=20
F2=37
DO=13 I1=1,1III,37
WRITE(1,14) (AAA(K),K=E1,F1),AAA(I1), (AAA(K),K=E2,F2)
A (2H I,9X,1H:17(14,2H : )14,2H I/2H I,16,4H : 107(1H:),
A 1HI/2H I,9X,1H:17(14,2H : )14,2H I/120(1H=)
E1=E1+37
F1=F1+37
E2=E2+37
F2=F2+37
CONTINUE
I1=111+37
WRITE(1,16) (AAA(K),K=E1,F1),AAA(I1), (AAA(K),K=E2,F2)
A (2H I,9X,1H:17(14,2H : )14,2H I/2H I,16,4H : 107(1H:),
A 1HI/2H I,9X,1H:17(14,2H : )14,2H I/120(1H=)
IF(NH(1)+1)0,28,0
WRITE(1,17)
FORMAT(//111(1H=)/2H I,
E 108X,1HI/2H I,108X
F 1HI/2H I,4X,44H10 INDEKSY PRZYNALEZNOSCI CELOW POWIETRZNYCH

```

```

G 60X,1HI/2H I,108X,1HI/2H I,4X,99(1H),5X,1HI/2H I,74X,99(1H),CYFRA :P
H 20X,17H2 N A C 2 E N I E,52X,1H,55X,1HI/2H I,74X,99(1H),55X
I 1HI/2H I,74X,99(1H) :289X,1H,55X,1HI)

```

```

L=1
M=11
DO 19 I=1,10
WRITE(1,18) NN(I),(NUZWU(J),J=L,M)
18 FORMAT (2H I,4X,2H : 52X,1H,55X,1H:76X,11A4,39X,1H:55X,1HI)
L=L+11
M=M+11

```

```

19 CONTINUE
WRITE(1,20)
20 FORMAT (2H I,74X,99(1H),5X,1HI/2H I,108X,1HI/2H I,74X,
A 24H2. INDEKSY UZPELNI AJACE,20X,1HI/2H I,108X,1HI/2H I,74X,
B 99(1H),5X,1HI/2H I,4X,9H: CYFRA :720X,
C 17H2 N A C 2 E N I E,52X,1H:55X,1HI/2H I,74X,99(1H),55X,1HI/2H I,
D 4X,9H: :289X,1H:55X,1HI)
L=L+11
M=M+11

```

```

DO 21 I=1,9
WRITE(1,22) BBB(I),(NUZWU(J),J=L,M)
22 FORMAT (2H I,74X,3H : 512,3X,1H:76X,11A4,39X,1H:55X,1HI)
L=L+11
M=M+11

```

```

21 CONTINUE
WRITE(1,23)
23 FORMAT (2H I,74X,99(1H),5X,1HI/2H I,108X,1HI/2H I,74X,
A 16H3. KOD STATKI OP,88X,1HI/2H I,108X,1HI/2H I,74X,99(1H),55X,
B 1HI/2H I,74X,15H: S T R E F Y : ,24H S E K T O R Y : ,10X,
C 24H2 U Z E K W A D R A T Y,25X,1HI/2H I,74X,99(1H),55X,
D 1HI)

```

```

WRITE(1,24) (KKK(I),I=1,32)
24 FORMAT (2H I,74X,1H:714,3H :714,3H :714(13,3H : )75X,1HI/2H I,
A 4X,99(1H),5X,1HI/2H I,
A 4X,1H:714,3H :714,3H :714(13,3H : )75X,1HI/2H I,
A 4X,99(1H),5X,1HI/2H I,108X,1HI/111(1H=))
28 IF(IIII-1)100,100,0
IF(IIII-51)0,0,32

```

```

40 FORMAT (7/6X)
A 47HTABELA DANYCH O BRONIION YCH OBIEKTACH (REJONACH)//59(1H=)/2H I,
A 6X,1H:74X,1H:77X,1H:77X,1H:77X,1H:77X,1H:75X,1H:74X,1HI/2H I,
A 2X,2HNR,2X,1H:74X,1H:77X,1H:77X,1H:77X,1H:74X,9HPOLOZENIE,74X,
A 1H:75X,1H:74X,1HI/2H I,6HOBIEKT,6H:RODZ,2X,11H2 : DA ,
A 2X,1H:717(1H),1H:75H PROM,6H:CENAI/2H I,76X,1H:74X,1H:77X,1H:7,
A 7X,1H:73X,1H:74X,1H:73X,1HY,4X,1H:75X,1H:74X,1HI/59(1H=)/2H I,
A 2X,1H:73X,1H:74X,1H:73X,1HY,4X,1H:75X,1H:74X,1HI/59(1H=)/2H I,
A 1H:73X,1H:74X,1H:73X,1HY,4X,1H:75X,1H:74X,1HI/59(1H=)

```

```

X=1
Y=2
DO 41 M=1,IIII,0
J=W+1
N=W+3
L=W+4
P=W+5

```

```

42 WRITE(1,42) A(W),A(M),M=J,N),A1(X),A1(Y),A(L),A(P)
FORMAT (2H I,15,2H : I3,2H : 1X,15,1X,1H:1X,15,1X)
A 1H:72,9,0,14,2H : I3,2H : I/2H I,76X,1H:74X,1H:77X,1H:77X,1H:7,
A 2(8X,1H),5X,1HI,74X,1HI)

```

```

41 CONTINUE
WRITE(1,44)
44 FORMAT (59(1H=))
GO TO 100

```

```

32 WRITE(1,50)
50 FORMAT (7/10X,46HT A B E L A D A N Y C H O B R O N I O N Y C H
A 40H Y O B I E K T A C H ( R E J O N A C H ) / / 5 9 ( 1 H = ) , 7 4 X ,
A 58(1H=)/2H I,76X,1H:74X,1H:77X,1H:77X,1H:77X,1H:77X,1H:75X,1H:74X,
A 4X,1HI,74X,1HI,76X,1H:74X,1H:77X,1H:77X,1H:77X,1H:77X,1H:75X,1H:74X,
A 1HI/2H I,2X,2HNR,2X,1H:74X,1H:77X,1H:77X,1H:77X,1H:74X,9HPOLOZENIE,
A 4X,1H:75X,1H:74X,1HI,74X,1HI,2X,2HNR,2X,1H:74X,1H:77X,1H:77X,
A 1H:74X,9HPOLOZENIE,74X,1H:75X,1H:74X,1HI/2H I,76HOBIEKT,
A 6H:RODZ,2X,11H2 : DA ,2X,1H:717(1H),1H:75H PROM,
A 6H:CENAI,74X,1HI,6HOBIEKT,6H:RODZ,2X,11H2 : DA ,2X,1H:7,
A 17(1H),1H:75H PROM,6H:CENAI/2H I,76X,1H:74X,1H:77X,1H:77X,1H:7,
A 3X,1H:73X,1H:74X,1H:73X,1HY,4X,1H:75X,1H:74X,1HI,74X,1HI,76X,1H:74X,1H:7,
A 7X,1H:77X,1H:73X,1H:74X,1H:73X,1HY,4X,1H:75X,1H:74X,1HI/59(1H=)

```

```
A 4X,58(1H=) / 2H I, 2X, 1H1, 3X, 1H, 5H 2 : 3X, 1H3, 3X, 1H:
A 3X, 1H: 3X, 1H: 3X, 1H: 3X, 1H: 3X, 1H: 3X, 1H: 3X, 1H: 3X, 1H:
A 5H: 3X, 1H: 3X, 1H: 3X, 1H: 3X, 1H: 3X, 1H: 3X, 1H: 3X, 1H:
A 1H: 3X, 1H: 3X, 1H: 3X, 1H: 3X, 1H: 3X, 1H: 3X, 1H: 3X, 1H:
A 4X, 58(1H=) / 2H I, 2X, 1H1, 3X, 1H, 5H 2 : 3X, 1H3, 3X, 1H:
X=1
Y=2
B=6
C=2
F=2
G=2
H=6
V1=6
DO 51 W=1,59,6
J=U+1
N=U+3
B=U+4
L=U+5
P=U+3
WRITE(1,52) A(W), (A(H), H=J, N), A1(X), A1(Y), A(L), A(P),
A 52 A 52) (A(K), K=J, N), A1(F), A1(G), A(H), A(V1)
FORMAT(2H I, IS, 2H G, I3, 2H G, 1X, IS, 1X, 1H, 1X, IS, 1X, 1H,
A 2F9, 10, I4, 2H I, I3, 2H I, 4X, 1H, I, IS, 2H I, I3, 2H I, 1X,
A 15, 1X, 1H, 1X, 1H, 1X, 1H, 1X, 1H, 1X, 1H, 1X, 1H, 1X, 1H,
A 4X, 1H, 1X, 1H, 1X, 1H, 1X, 1H, 1X, 1H, 1X, 1H, 1X, 1H,
A 6X, 1H, 1X, 1H, 1X, 1H, 1X, 1H, 1X, 1H, 1X, 1H, 1X, 1H,
X=X+2
Y=Y+2
C=U+6
H=U+6
V1=U+6
G=U+2
F=U+2
IF(B=IIII)0,0,60
B=U+6
51 CONTINUE
101 WRITE(1,101)
FORMAT(59(1H=), 4X, 58(1H=))
GOTO 100
60 W=U+6
DO 55 W=U,59,6
J=U+1
L=U+4
P=U+4
N=U+3
WRITE(1,61) A(U), (A(K), K=J, N), A1(X), A1(Y), A(L), A(P)
61 A 61) (A(K), K=J, N), A1(X), A1(Y), A(L), A(P)
FORMAT(2H I, IS, 2H G, I3, 2H G, 1X, IS, 1X, 1H, 1X, IS, 1X, 1H,
A 2F9, 10, I4, 2H I, I3, 2H I, 4X, 58(1H=) / 2H I, 6X, 1H, 4X, 1H,
A 7X, 1H, 1X, 1H, 1X, 1H, 1X, 1H, 1X, 1H, 1X, 1H, 1X, 1H,
X=X+2
Y=Y+2
55 CONTINUE
103 WRITE(1,103)
100 FORMAT(59(1H=))
RETURN
102 END
103
104
105
106
107
108
109
110
111
112
113
114
115
116
117
118
119
120
```

SUBROUTINE BAZA2

INTEGER A(486), B(486), C(486), X(280), Y(240), V(264), Z(286),
P1(440), P2(440), P3(420), P4(420), P5(378), P6(204),
J1(2), L(9), M(9), J2(9), J3(9), J4(21), J5(9), J(9), J10(9),
J6(9), J7(17), J8(6), J9(6), D(27), D1(8), D2(8),
E, F, G, H, I, K, L, M, N, O, P, Q, R, S, T, U, V, W, X, Y, Z, D3(14), D4(9), D5(13), D6(12)

REAL D7(10)
COMMON /ORUL/ A, B, C, X, Y, V, Z, P1, P2, P3, P4, P5, P6
DATA J/2, 8, 12, 14, 16, 20, 24, 28, 31/
DATA J10/7, 11, 13, 15, 19, 23, 27, 30, 32/
DATA J1/1, 2/
DATA L/3, 8, 12, 14, 17, 20, 23, 26, 28/
DATA M/7, 11, 13, 16, 19, 22, 25, 27, 30/
DATA J2/2, 8, 12, 14, 17, 20, 23, 26, 28/
DATA J3/7, 11, 13, 16, 19, 22, 25, 27, 30/
DATA J4/0, 2, 4, 6, 8, 10, 11, 12, 13, 14, 16, 18, 20, 21, 22, 26, 28, 30, 32, 34, 36/
DATA J5/5, 8, 11, 14, 17, 20, 23, 26, 28/
DATA J6/7, 10, 13, 16, 19, 22, 25, 27, 30/
DATA J7/0, 5, 10, 11, 14, 16, 20, 22, 24, 26, 28, 30, 32, 34, 36, 38, 40/
DATA J8/13, 16, 19, 22, 25, 28/
DATA J9/15, 18, 21, 24, 27, 30/
DATA D/0, 2, 4, 6, 8, 10, 12, 14, 16, 18, 20, 22, 24, 26, 28, 30/
DATA D1/3, 7, 11, 15, 19, 23, 27, 31/
DATA D2/0, 2, 4, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16/
DATA D3/2, 4, 6, 8, 10, 12, 14, 16, 18/
DATA D4/0, 2, 4, 6, 8, 10, 11, 12, 13, 14, 15, 16/
DATA D5/0, 2, 4, 6, 8, 10, 11, 12, 13, 14, 15, 16/
DATA D6/0, 2, 4, 6, 8, 10, 11, 12, 13, 14, 15, 16/
WRITE(1, 115) (D(K), K=1, 20)

115 FORMAT (7/10X, 17H2.21.300.0.90//9X, 101(1H=)/9X, 1HI,
A 19(I3, 2H :), I3, 2H I/110(1H=))

E=1
F=20
G=21
H=40
DO 116 I=1, 2
WRITE(1, 100) (P1(K), K=E, F), J1(I), (P1(K), K=G, H)
100 FORMAT (2H 1, 7X, 1H: , 19(I3, 2H :), I3, 2H I/2H 1, I4, 3X, 1H: , 99(1H=),
A 1HI/2H 1, 7X, 1H: , 19(I3, 2H :), I3, 2H I/110(1H=))
E=E+40
F=F+30
G=G+30
H=H+40
116 CONTINUE

101 DO 11 I=1, 8
WRITE(1, 101) (P1(K), K=E, F), L(I), M(I), (P1(K), K=G, H)
101 FORMAT (2H 1, 7X, 1H: , 19(I3, 2H :), I3, 2H I/2H 1, I3, 1H- , I2, 2H : ,
A 99(1H=), 1HI/2H 1, 7X, 1H: , 19(I3, 2H :), I3, 2H I/110(1H=))
E=E+40
F=F+30
G=G+40
H=H+40
11 CONTINUE

102 WRITE(1, 102) (P1(K), K=401, 420), L(9), M(9), (P1(K), K=421, 440)
102 FORMAT (2H 1, 7X, 1H: , 19(I3, 2H :), I3, 2H I/2H 1, I3, 1H- , I2, 2H : ,
A 99(1H=), 1HI/2H 1, 7X, 1H: , 19(I3, 2H :), I3,
A 2H I/110(1H=) ///////////////////////////////////////
117 WRITE(1, 117) (D(K), K=1, 20)
117 FORMAT (7/10X, 17H2.21.300.0.420.0.70//9X, 2101(1H=)/9X, 21HI,
A 19(I3, 2H :), I3, 2H I/110(1H=))

E=1
F=20
G=21
H=40
DO 21 I=1, 2
WRITE(1, 103) (P2(K), K=E, F), J1(I), (P2(K), K=G, H)
103 FORMAT (2H 1, 7X, 1H: , 19(I3, 2H :), I3, 2H I/2H 1, I4, 3X, 1H: , 99(1H=),
A 1HI/2H 1, 7X, 1H: , 19(I3, 2H :), I3, 2H I/110(1H=))
E=E+40
F=F+30
G=G+30
H=H+40
21 CONTINUE

104 DO 23 I=1, 8
WRITE(1, 104) (P2(K), K=E, F), L(I), M(I), (P2(K), K=G, H)
104 FORMAT (2H 1, 7X, 1H: , 19(I3, 2H :), I3, 2H I/2H 1, I3, 1H- , I2, 2H : ,

```

A 99 (1H=), 1HI/2H I, 7X, 1H: 19 (I3, 2H :), I3, 2H I/110 (1H=)
E=E+40
F=F+40
G=G+40
H=H+40
25 CONTINUE
WRITE (1, 105) (P2(K), K=401, 420), L(9), M(9), (P2(K), K=421, 440)
105 FORMAT (2H I, 7X, 1H: 19 (I3, 2H :), I3, 2H I/2H I, I3, 1H- (I2, 2H :),
A 99 (1H=), 1HI/2H I, 7X, 1H: 19 (I3, 2H :), I3,
A 2H I/110 (1H=) ////////////////////////////////////////////////////
WRITE (1, 106) (D(K), K=1, 20), (P3(K), K=1, 42)
106 FORMAT (7/10X, 19H 2.501184200560.0055 // 9X, 106 (1H=) / 9X, 26HI 0 :
A 19 (I3, 2H :), I3, 2H I/115 (1H=) / 2H I, 7X, 1H: 20 (I3, 2H :), I3,
A 2H I/10H I 2 : 104 (1H=) 1HI/2H I, 7X, 1H: 20 (I3, 2H :),
A I3, 2H I)
E=45
F=63
G=64
H=84
DO 33 I=1, 9
107 WRITE (1, 107) (P3(K), K=E, F), J2(I), J3(I), (P3(K), K=G, H)
107 FORMAT (115 (1H=) / 2H I,
A 7X, 1H: 20 (I3, 2H :), I3, 2H I/2H I, I3, 1H- (I2, 2H :),
A 104 (1H=), 1HI/2H I, 7X, 1H: 20 (I3, 2H :), I3, 2H I)
E=E+42
F=F+42
G=G+42
H=H+42
33 CONTINUE
WRITE (1, 108) (D(K), K=1, 20), (P4(K), K=1, 42)
35 FORMAT (115 (1H=) ////////////////////////////////////////////////////
108 WRITE (1, 108) (D(K), K=1, 20), (P4(K), K=1, 42)
108 FORMAT (7/10X, 19H 2.501184200560.0055 // 9X, 106 (1H=) / 9X, 26HI 0 :
A 19 (I3, 2H :), I3, 2H I/115 (1H=) / 2H I, 7X, 1H: 20 (I3, 2H :), I3,
A 2H I/10H I 2 : 104 (1H=) 1HI/2H I, 7X, 1H: 20 (I3, 2H :),
A I3, 2H I)
E=E+45
F=63
G=64
H=84
DO 118 I=1, 9
109 WRITE (1, 109) (P4(K), K=E, F), J4(I), J10(I), (P4(K), K=G, H)
109 FORMAT (115 (1H=) / 2H I,
A 7X, 1H: 20 (I3, 2H :), I3, 2H I/2H I, I3, 1H- (I2, 2H :),
A 104 (1H=), 1HI/2H I, 7X, 1H: 20 (I3, 2H :), I3, 2H I)
E=E+42
F=F+42
G=G+42
H=H+42
118 CONTINUE
WRITE (1, 119)
119 FORMAT (115 (1H=) ////////////////////////////////////////////////////
75 WRITE (1, 73) (J4(K), K=1, 3), J5(1), D2(1), (J4(K), K=6, 21)
75 FORMAT (7/10X, 19H 2.501184200700.0055 // 9X, 106 (1H=) / 9X, 26HI
A 20 (I3, 2H :), I3, 2H I/115 (1H=))
E=1
F=21
G=22
H=42
DO 110 S3 I=1, 8
110 WRITE (1, 110) (P5(K), K=E, F), J5(I), J6(I), (P5(K), K=G, H)
110 FORMAT (2H I, 7X, 1H: 20 (I3, 2H :), I3, 2H I/2H I, I3, 1H- (I2, 2H :),
A 104 (1H=), 1HI/2H I, 7X, 1H: 20 (I3, 2H :), I3, 2H I/115 (1H=))
E=E+42
F=F+42
G=G+42
H=H+42
55 CONTINUE
WRITE (1, 111) (P5(K), K=337, 357), J5(9), J6(9), (P5(K), K=358, 378)
111 FORMAT (2H I, 7X, 1H: 20 (I3, 2H :), I3, 2H I/2H I, I3, 1H- (I2, 2H :),
A 104 (1H=), 1HI/2H I, 7X, 1H: 20 (I3, 2H :), I3,
A 2H I/115 (1H=) ////////////////////////////////////////////////////
WRITE (1, 62) (J7(K), K=1, 17)
62 FORMAT (7/10X, 20H 2.60118700010000.0050 // 9X, 286 (1H=) / 9X, 26HI
A 16 (I3, 2H :), I3, 2H I/95 (1H=))
E=1
F=17
G=18

```

```
H=34
DO 121 I=1,2
WRITE(1,112) (P6(K),K=E,F),J8(I),J9(I),(P6(K),K=G,H)
112 FORMAT (2H 1,7X,1H:;16(I3,2H :);13,2H 1/2H I,13,1H-;12,2H :;
A 84(1H:);1HI/2H 1,7X,1H:;16(I3,2H :);13,2H 1/95(1H-))
E=E+34
F=F+34
G=G+34
H=H+34
121 CONTINUE
WRITE(1,113) (P6(K),K=171,187),J8(6),J9(6),(P6(K),K=188,204)
113 FORMAT (2H 1,7X,1H:;16(I3,2H :);13,2H 1/2H I,13,1H-;12,2H :;
A 84(1H:);1HI/2H 1,7X,1H:;16(I3,2H :);13,2H 1/95(1H-))
WRITE(1,7) (D(K),K=1,27),(A(K),K=1,54)
7 FORMAT (//////10X;17H102;1,0.64000070.//9X;109(1H=)/9X;1HI;
A 26(I3,1H:);13,1HI/118(1H=)/2H 1,7X,1H:;26(I3,1H:);13,
A 1HI/9H I 0.3-2 108(1H:);1HI/2H 1,7X,1H:;26(I3,1H:);13,
A 1HI)
E=E+55
F=F+81
G=G+82
H=108
DO 8 I=1,8
WRITE(1,9) (A(K),K=E,F),D1(I),D2(I),(A(K),K=G,H)
9 FORMAT (118(1H-)/2H 1,
A 7X;1H:;26(I3,1H:);13,1HI/2H 1,13,1H-;12,2H :;
A 107(1H:);1HI/2H 1,7X,1H:;26(I3,1H:);13,1HI)
E=E+54
F=F+54
G=G+54
H=H+54
8 CONTINUE
WRITE(1,10)
10 FORMAT (118(1H=)////////////////////////////////////)
WRITE(1,17) (D(K),K=1,27),(S(K),K=1,54)
17 FORMAT (//////10X;17H102;1,0.64000070.//9X;109(1H=)/9X;1HI;
A 26(I3,1H:);13,1HI/118(1H=)/2H 1,7X,1H:;26(I3,1H:);13,1HI/3H I
A 6H0.3-2 108(1H:);1HI/2H 1,7X,1H:;26(I3,1H:);13,1HI)
E=E+55
F=F+81
G=G+82
H=108
DO 18 I=1,8
WRITE(1,9) (B(K),K=E,F),D1(I),D2(I),(B(K),K=G,H)
E=E+54
F=F+54
G=G+54
H=H+54
18 CONTINUE
WRITE(1,20)
20 FORMAT (118(1H=)////////////////////////////////////)
WRITE(1,27) (D(K),K=1,27),(C(K),K=1,54)
27 FORMAT (//////10X;17H103;1,0.30000090.//9X;109(1H=)/9X;1HI;
A 26(I3,1H:);13,1HI/118(1H=)/2H 1,7X,1H:;26(I3,1H:);13,
A 1HI/9H I 0.3-2 108(1H:);1HI/2H 1,7X,1H:;26(I3,1H:);13,
A 1HI)
E=E+55
F=F+81
G=G+82
H=108
DO 28 I=1,8
WRITE(1,29) (C(K),K=E,F),D1(I),D2(I),(C(K),K=G,H)
29 FORMAT (118(1H-)/2H 1,
A 7X;1H:;26(I3,1H:);13,1HI/2H 1,13,1H-;12,2H :;
A 2H :;107(1H:);1HI/2H 1,7X,1H:;26(I3,1H:);13,1HI)
E=E+54
F=F+54
G=G+54
H=H+54
28 CONTINUE
WRITE(1,30)
30 FORMAT (118(1H=)////////////////////////////////////)
WRITE(1,43) (D3(K),K=1,14),(D6(K),K=1,12),(X(K),K=1,14),
A (Y(K),K=1,12),(X(K),K=15,28),(Y(K),K=13,24)
43 FORMAT (//////7X;18H3.21;1H0.300.0;160;48X;
A 17H3.602.0.560.0.60.//6X;57(1H=);6X;49(1H=)/6X;1HI;
A 13(I3,1H:);13,1HI;9X;1HI;11(I3,1H:);13,1HI/63(1H=);4X;
A 54(1H=)/2H 1,6X;1HI;13(I3,1H:);13,1HI;4X;1HI;4X;1HI;4X;1HI;11(I3,1H:);
```

```

A  I3,1HI/2H I0005:,55(1H:),1HI,4X,06HI0,05:,47(1H:),1HI/2H I,4X
A  1H:,13(13,1H:),I3,1HI,4X,1HI,4X,1H:,11(13,1H:)
A  I3,1HI)
DO 44 I=1,9
E=29
F=42
G=43
H=56
E1=25
F1=36
G1=37
H1=40
WRITE(1,45) (X(K),K=E,F), (Y(K),K=E1,F1),D4(I)D7(I)
A  (X(K),K=G,H), (Y(K),K=G1,H1)
45  FORMAT (63(1H=),4X,54(1H=)/2H I
A  I3,1HI/2H I,I3,1H:,55(1H:),1HI,4X,1HI,4X,1H:,11(13,1H:),
A  1HI/2H I,I3,1H:,13(13,1H:),I3,1HI,4X,1HI,4X,1H:,11(13,1H:),I3,
A  1HI)
E=F+28
F=G+28
G=H+28
H1=E1+24
F1=G1+24
G1=H1+24
44  CONTINUE
40  WRITE(1,46)
40  FORMAT (63(1H=),4X,54(1H=),50(/))
A  WRITE(1,47) (D6(K),K=1,12), (D5(K),K=1,15), (V(K),K=1,12),
65  (Z(K),K=1,13), (Y(K),K=1,24), (Z(K),K=1,14), (26)
A  FORMAT (/77779X,19H3,2010300,70000060,41X,
A  17H3,301,0,560,0,60,778X,49(1H=),4X,7X,53(1H=)/8X,1HI,11(13,1H:),
A  I3,1HI,4X,7X,1HI,12(13,1H:),I3,1HI/57(1H=),4X,60(1H=)/2H I
A  6X,1H:,11(13,1H:),I3,1HI,4X,1HI,6X,
A  1H:,12(13,1H:),I3,1HI/9H I 0005 : ,51(1H:),1HI/2H I,6X,1H:,11(13,1H:),
A  47(1H:),1HI,4X,8H I 0005 : ,51(1H:),1HI/2H I,6X,1H:,12(13,1H:),I3,1HI)
A  I3,1HI,4X,1HI,6X,1H:,12(13,1H:),I3,1HI)
DO 64 I=1,10
E=25
F=36
G=37
H=48
E1=27
F1=39
G1=40
H1=52
WRITE(1,65) (V(K),K=E,F), (Z(K), K=E1,F1),D7(I)D7(I)
A  (V(K),K=G,H), (Z(K),K=G1,H1)
65  FORMAT (57(1H=),4X,60(1H=)/2H I
A  6X,1H:,11(13,1H:),I3,1HI,4X,1HI,6X,
A  1H:,12(13,1H:),I3,
A  1HI/2H I,F5,1,2H : ,47(1H:),1HI,4X,1HI,F5,1,2H : ,51(1H:),1HI/2H I
A  6X,1H:,11(13,1H:),I3,1HI,4X,1HI,6X,1H:,12(13,1H:),I3,1HI)
E=E+24
F=F+24
G=G+24
H=H+24
E1=E1+26
F1=F1+26
G1=G1+26
H1=H1+26
64  CONTINUE
60  WRITE(1,66)
60  FORMAT (57(1H=),4X,60(1H=))
RETURN
END

```

```
SUBROUTINE DANE
INTEGER K(34), I, KLUCZ, ALE
REAL W(102), Z(180)
COMMON /DDDD/K, W, Z
COMMON /UUUU/ KLUCZ
WRITE(10, 1)
1  FORMAT (34H PRZYLOT STALE DO PROGROCELE I CEL1)
PAUSE
2  CALL SWITCH(8, ALE)
ALE = ALE + 1
3  READ(ALE, 3) ((K(I), I=21, 34), W(1), (W(I), I=1, 102), (Z(I), I=69, 180))
A  ((K(I), I=1, 20))
3  FORMAT (14I0, 278F0, 0, 20I0)
IF (KLUCZ) 0, 9, 0
PAUSE 771
KLUCZ = 0
GO TO 2
4  RETURN
END
```

```

SUBROUTINE CEL2
INTEGER KLUCZ,MM1(105),MM4(105),CZAS(105)
A      II,TABL(20),ALE,PI(6)
A      TO,PO,PAU,PI,BB(10)
REAL X(105),Y(105),MM5(105)
COMMON /BROR/MM1,PI,X,Y,MM4,MM5,CZAS,PI
COMMON /UUUO/KLUCZ
WRITE(1,7)
7      FORMAT (25HPRZYGOT.MELDUNKI O CELACH)
PAUSE
CALL DEFBUF(50,80,TABL)
1      CALL SWITCH(8,ALE)
ALE=ALE+1
PI=1
20     CALL READT(TABL,ALE)
TO=1
READ(5,106) M(1),M(2),AO
106    IF (KLUCZ) 0,0,2
FORMAT (3I0)
IF (M(1)+1) 0,126,0
PO=5
IF (AO) 0,0,0
IF (AO-1000) 0,12,12
M(4)=AO
PO=5
GO TO 10
12     M(3)=AO
PO=4
10     READ(5,108) M(1),M(2),AO,(BB(I),I=1,TO)
108    IF (KLUCZ) 0,0,2
TO=TO+1
FORMAT (12I0)
IF (BB(TO-1)) 13,0,0
IF (PO-6) 0,0,15
M(PO)=BB(TO-1)
PO=PO+1
GO TO 10
8      M(6)=AO
GO TO 14
13     M(6)=BB(TO-1)
14     IF (PO-6) 0,19,19
M(PO)=0
PO=PO+1
GO TO 14
15     WRITE(10,16) M(1)
16     FORMAT (25H6LEDNY MELDUNEK O NRZECELU,I4)
18     READ(5,17) M(1),M(2),AO,(BB(I),I=1,TO)
IF (KLUCZ) 0,0,2
TO=TO+1
17     FORMAT (10I0)
IF (BB(TO-1)) 20,18,18
19     MM1(II)=M(1)
X(II)=FLOAT(M(2))
Y(II)=FLOAT(M(3))
MM5(II)=FLOAT(M(5))
MM4(II)=M(4)
CZAS(II)=-M(6)
II=II+1
IF (II-105) 20,20,0
126    II=II-1
88     WRITE(1,88)
FORMAT (7/50(1H-)/2H 1,55X,1HI/2H 1,55X,
A      75HMELDUNEK OKRESLAJACY POLOZENIE CELU,15X,1HI/2H 1,
A      5X,36HWG.WSPOLRZEDNYCH PROSTOKATNYCH (X,Y)
A      14X,1HI/2H 1,55X,1HI/50(1H-))
DO 130 I=1,II
201    WRITE(1,201) MM1(I),X(I),Y(I),MM4(I),MM5(I),CZAS(I)
FORMAT (2H 1,3X,14,5X,15,0,2X,15,0,5X,13,
A      2X,15,0,16,9X,1HI)
150    CONTINUE
WRITE(1,127)
127    FORMAT (58(1H-))
GO TO 222
2      PAUSE 772
KLUCZ=0
GOTO 1
222    RETURN
END

```

```

SUBROUTINE SSS1B
INTEGER ALE, ETYK, TABL(20), LR, KLUCZ, I, L(3), S3, DT, GMPCZAS,
A      TO, KK, K, T(3), Z1(27), G1(27), H1, I1, S(16)
REAL X1, Y1, A(3), D11(27), X2(3), Y2(3), VO(3), HO(3),
A      V1(27), H1(27), T4, XX(51(8))
COMMON /UUUU/ KLUCZ
COMMON /UNUU/ S, S1, T, X1, Y1, D11, X2, Y2,
A      VO, HO, VT, R1, LR, S3, GM, DT, A, Z1, G1, CZAS, L
CALL DEFBUF(5, 80, TABL)
22 WRITE(10, 23)
23 FORMAT (30HPRZYKOT DANE DO SYM. MODU[NA]LOTU)
PAUSE
ASSIGN 24 TO ETYK
24 CALL SWITCH(8, ALE)
ALE = ALE + 1
37 CALL READT(TABL, ALE)
26 READ(5, 26) LR
FORMAT (10, 2F0.0, 3I0)
IF(KLUCZ) 0, 0, 30
IF(LR) 35, 35, 0
IF(LR-3) 0, 0, 35
READ(5, 26) LR, X1 Y1, (L(I), I=1, LR)
IF(KLUCZ) 0, 0, 30
27 READ(ALE, 27) S3, DT, GMPCZAS
FORMAT (4I0)
IF(KLUCZ) 0, 0, 30
TO = 0
DO 1 I = 1, 3
CONTINUE
1 DO 28 I = 1, LR
CALL READT(TABL, ALE)
KK = TO + 1
TO = TO + 1
29 READ(5, 85) A(I), (D11(K), K = KK, TO)
IF(KLUCZ) 0, 0, 30
85 FORMAT (30F0.30)
IF(D11(TO) + 1) 0, 31, 0
IF(TO - 27) 0, 3, 3
TO = TO + 1
GO TO 29
31 TO = TO - 1
33 READ(ALE, 33) X2(I), Y2(I), VO(I), HO(I)
FORMAT (4F0.30)
IF(KLUCZ) 0, 0, 30
IF(T(I) - TO) 0, 28, 0
76 READ(ALE, 76) (Z1(K), K = KK, TO)
FORMAT (9I0)
IF(KLUCZ) 0, 0, 30
READ(ALE, 76) (G1(K), K = KK, TO)
IF(KLUCZ) 0, 0, 30
READ(ALE, 85) (V1(K), K = KK, TO)
IF(KLUCZ) 0, 0, 30
READ(ALE, 85) (H1(K), K = KK, TO)
IF(KLUCZ) 0, 0, 30
T(I) = TU
28 CONTINUE
42 T4 = 9999999 * 1000000
IF(X1 - 1000000) 39, 0, 0
IF(X1 - 14) 0, 0, 39
IF(Y1 - 1000000) 40, 0, 0
IF(Y1 - 14) 0, 0, 40
46 IF(S3 - S(1)) 0, 48, 0
IF(S3 - S(2)) 44, 0, 44
48 DO 47 I = 1, LR
IF(L(I) - 81) 0, 81, 0
IF(L(I) - 1) 82, 0, 82
81 IF(A(I)) 49, 49, 0
IF(A(I) - 360) 0, 0, 49
IF(X2(I) - 1000000) 50, 0, 0
IF(X2(I) - 14) 0, 0, 50
IF(Y2(I) - 1000000) 51, 0, 0
IF(Y2(I) - 14) 0, 0, 51
IF(VO(I)) 52, 52, 0
IF(VO(I) - 999) 0, 0, 52
IF(HO(I)) 53, 53, 0
IF(HO(I) - 999) 0, 0, 53
47 CONTINUE

```

```

58 IF (T0) 0,2,0
DO 59 I=1,T0
IF (C011(I)) 60,60,0
IF (C011(I)-99999) 0,0,60
IF (C21(I)) 55,55,0
IF (C21(I)-9) 0,0,54
IF (C61(I)) 55,55,0
IF (C61(I)-99) 0,0,55
IF (C91(I)) 56,56,0
IF (C91(I)-999) 0,0,56
IF (C11(I)) 57,57,0
IF (C11(I)-999) 0,0,57
59 CONTINUE
21 WRITE (10,21)
FORMAT (12HAKTUALIZACJA)
PAUSE
CALL SWITCH(1,1)
IF (T1-1) 63,0,63
DO 62 I=1,LK
READ (ALE,26) I,XX
IF (KLUCZ) 0,0,30
IF (II+1) 0,63,0
A(II)=XX
62 CONTINUE
35 WRITE (10,36)
36 FORMAT (12HLEDNA LICZ. RUBIEZY)
PAUSE
GOTO 37
39 WRITE (10,41)
41 FORMAT (12HLEDNY WSP X)
PAUSE
READ (ALE,33) XX
IF (KLUCZ) 0,0,30
X1=XX
GOTO 42
82 WRITE (10,83)
83 FORMAT (40HLEDNA INFORMACYJAZA ROZPOZNANIA RUBIEZY)
PAUSE
READ (ALE,27) I,II
IF (KLUCZ) 0,0,30
L(I)=II
GOTO 43
40 WRITE (10,43)
43 FORMAT (12HLEDNY WSP Y)
PAUSE
READ (ALE,33) XX
IF (KLUCZ) 0,0,30
Y1=XX
GOTO 44
44 WRITE (10,45)
45 FORMAT (12HLEDNA SKALA)
PAUSE
READ (ALE,26) I
IF (KLUCZ) 0,0,30
S3=I
GOTO 46
49 WRITE (10,64)
64 FORMAT (21HLEDNY AZYMUT RUBIEZY)
PAUSE
READ (ALE,26) I,XX
IF (KLUCZ) 0,0,30
A(I)=XX
GOTO 48
50 WRITE (10,65)
65 FORMAT (34HLEDNY WSPX PIERWOP-TOW BAZOW RUB.)
PAUSE
READ (ALE,26) I,XX
IF (KLUCZ) 0,0,30
X2(I)=XX
GOTO 48
51 WRITE (10,66)
66 FORMAT (34HLEDNY WSPY PIERWOP-TOW BAZOW RUB.)
PAUSE
READ (ALE,26) I,XX
IF (KLUCZ) 0,0,30
Y2(I)=XX
GOTO 48
52 WRITE (10,67)

```

```

67  FORMAT (34H0LEDNA PREDPIERWOP-TOW BAZOW RUB)
    PAUSE
    READ(ALE,26) I,XX
    IF(KLUCZ)0,0,30
    V0(I)=XX
    GOTO 48
53  WRITE(10,68)
68  FORMAT (35H0LEDNA WYSOKPIERW.P-TOW BAZOW RUB)
    PAUSE
    READ(ALE,26) I,XX
    IF(KLUCZ)0,0,30
    V0(I)=XX
    GOTO 48
54  WRITE(10,69)
69  FORMAT (20H0LEDNY RODZNAKLOCEN)
    PAUSE
    READ(ALE,27) I,II
    IF(KLUCZ)0,0,30
    Z1(I)=II
    GOTO 48
55  WRITE(10,70)
70  FORMAT (24H0LEDNA LICZCELOW GRUPIE)
    PAUSE
    READ(ALE,27) I,II
    IF(KLUCZ)0,0,30
    G1(I)=II
    GOTO 48
56  WRITE(10,71)
71  FORMAT (21H0LEDNA PREDPUNOW RUB)
    PAUSE
    READ(ALE,26) I,XX
    IF(KLUCZ)0,0,30
    V1(I)=XX
    GOTO 48
57  WRITE(10,72)
72  FORMAT (22H0LEDNA WYSOKPUNOW RUB)
    PAUSE
    READ(ALE,26) I,XX
    IF(KLUCZ)0,0,30
    H1(I)=XX
    GOTO 48
60  WRITE(10,73)
73  FORMAT (31H0LEDNE ODSTERY MIEDZY CELOW RUB)
    PAUSE
    READ(ALE,26) I,XX
    IF(KLUCZ)0,0,30
    D11(I)=XX
    GOTO 58
30  PAUSE 773
    KLUCZ=0
    GOTO ETYK
65  RETURN
    END

```

```

SUBROUTINE BA715
INTEGER S(10), LR, T2, T1, DD2, DD1, I, Z1(27), IS,
A G1(27), I1, SPAC, T3, T0, LL(3), LL1(9), LL3(9),
A S3, DT, GM, LR1, T(3), DD(9), CZAS, L(3)
INTEGER CC
REAL S1(8), X1, Y1, V1(27), H1(27),
A X2(3), Y2(3), V0(3), H0(3), A(3),
A D11(27), LL2(9), LL4(9), LL5(9)
COMMON /DATE/ CC
COMMON /UNUR/ S, S1, T, X1, Y1, D11, X2, Y2, V0, H0, V1, H1,
A LR, S3, GM, DT, A, Z1, G1, CZAS, L
DATA SPAC/4H
CALL DEFBUF(8,4,CC)
WRITE(1,20)
20 FORMAT (20X,18HDARE WYJSC:OWE DO W
A 24HSYMLATORA MODELU NALOTU/94(1H=)/8H I LR :73X,2HX17
A 4X,1H:73X,2HY1,4X,1H:73X,2HL1,4X,1H:73X,2HL2,4X,
A 7H:,5X,2HL3,4X,1H:73X,2MS3,3X,1H:73X,2HDT,3X,
A 7H:,5X,2HGM,3X,1H:72X,4HCZAS,2X,1H:/94(1H=))
IF(LR-3)Z1,0
WRITE(1,22) LR, X1, Y1, (L(I), I=1,LR), S3, DT, GM, CZAS
22 FORMAT (2H I,2X, I1,2X, T2(1H:,1X, F0.0),3(1H:,1X, I0,2X),
A 4(1H:,1X, I0,1X),1HI)
GOTO 26
21 DO 25 I=1,LR
CALL DOD(LL(I),L(I))
25 CONTINUE
LR1=LR+1
DO 23 I=LR1,3
LL(I)=SPAC
23 CONTINUE
WRITE(1,24) LR, X1, Y1, (LL(I), I=1,3), S3, DT, GM, CZAS
24 FORMAT (2H I,2X, I1,2X, T2(1H:,1X, F0.0),3(1H:,1X, I0,2X),
A 4(1H:,1X, I0,1X),1HI)
DD1=10
DD2=91
T1=1
T0=0
DO 27 I=1,LR
T2=I*9
DO 28 II=1,9
DD(II)=DD1+II
28 CONTINUE
WRITE(1,29) I, (DD(II), II=1,9)
29 FORMAT (94(1H=)/4H I A, I1,2X,5(1H:,3X,1H0,12,3X),
A 4(1H:,2X,1H0,12,3X),1HI)
IF(T0-T(1))0,1,0
T0=T(1)
30 IS=0
DO 33 II=T1,T0
IS=IS+1
LL2(IS)=D11(II)
LL1(IS)=Z1(II)
LL3(IS)=H1(II)
LL4(IS)=V1(II)
LL5(IS)=H1(II)
33 CONTINUE
IF(IS-2)0,2,2
IS=IS+1
LL2(IS)=0
LL1(IS)=0
LL3(IS)=0
LL4(IS)=0
LL5(IS)=0
GO TO 1
IF(T(1)-T2)2,0,0
WRITE(1,31) A(I), (D11(II), II=T1,T0)
31 FORMAT (94(1H=)/3H I , F4.0,5(1H:,2X, F0.0,1X),
A 4(1H:,1X, F0.0,1X),1HI)
GOTO 32
2 WRITE(1,35) A(I), (LL2(II), II=1,9)
35 FORMAT (94(1H=)/3H I , F4.0,5(1H:,F8.0,1X),
A 4(1H:,F8.0,1HI)
32 WRITE(1,36) DD2, X2(I), Y2(I), V0(I), V1(I), H0(I)
36 FORMAT (94(1H=)/2H I,5X,5H: X2,1,3X,2H: F8.0,5H: Y, I2,3X,
A 2H: F8.0,1H:73X,1HV, I1,4X,1H:72X, F4.0,2X,1H:73X,1HW, I1,
A 3X,1H:72X, F4.0,2X,1H:78X,1HI)
WRITE(1,3) I, (LL1(II), II=1,9), I, (LL5(II), II=1,9)

```



```

SUBROUTINE ANSAL
INTEGER N(165),SG(165),DCZ(165),
LN(40),RSG(40),MCZ(40),
DN(165),DSG(165),DCZ(165),
LN(165),MO(20),DOAR(4800),WTD(30),WZC(165),WPD(250),
LMW,LCO,LCO,LC1(20),IO,IO1,J,K,L,WWA,EMC,R,R1,R2,R3,UM,
FM(16),FN(160),FD(160),F1,F2,F3,DD,
W11(448),W12(27),W41(25),W42(25),W43(25),W44,W45,
W61(30),W62,W63(3001),W64,W65,W66,W67(297),W68(29),
W69(128),W691(36),W692(36),W693,W694(814),W695(200),
W2(29),II,A(120)
INTEGER LCP,LQ,LP,LZ,LH,LL,LR,LNAT,LDW,LDI
INTEGER KL(16),WEKDR(16),TC(16),UP, ,TOP(16)
INTEGER LN(165),LCZPC,KOD(5)
INTEGER IC,SRR,LRR(165)
INTEGER KK
REAL S1(8),SPR,PRC(165)
REAL X(165),Y(165),MX(40),MY(40),DX(165),DY(165),DXE(165),
DYE(165),OC1(165),VC1(165),PCS(165),VCS(165),
MH(165),MH(40),DH(165),
DLX,DLY,OC,VC,D,P,RA,RB,RC,RD,RE,DDSK,DBSK,QQ,DLDS,
PO,EPS,
W111(64),W112(162),W31(25),W32(25),W33(25),W34(25),
W5(87),AT(40)
COMMON /DRDR/N,X,Y,SG,PH,CZ,I
COMMON /DRUK/W11,W12,W111,W112,W2,W51,W52,W53,W54,W41,W42,W43,W44,
W45,W5,W61,W62,W63,W64,W65,W66,W67,W68,W69,W691,W692,
W693,W694,W695,II,A,JA1
COMMON /ANAL/DOAR,WTD
COMMON /GSOJA/SPR,WPD,IC,SRR
COMMON /TABL/MN,RSG,MCZ,DN,DSG,DCZ,LN,WZC,TOP,LCO,LMW,WWA,
MX,MY,MH,DX,DY,DH,P,OC1,VC1,PCS,VCS,DXE,DYE
COMMON /FORD/F,FR,FN,FD
COMMON /UNUN/KL,ST
COMMON /DRTH/WPD
DATA KOD(1)/20H P T K M /
104 FORMAT(///25X,67(1H=)/25X,13HI NR DOAR :15,8H S=7157
-35(1H),1HI/25X,1HI/25X,1HI/25X,1HI/25X,7HI W :79(15,1H:)715,
L1HI/25X,1HI,
I10(6H---:):,6H---I/25X,7HI KZG :9(15,1H:)715,1HI/25X,1HI,
N10(6H---:):,6H---I/25X,7HI T :9(15,1H:)715,1HI/25X,1HI,
I10(6H---:):,6H---I/25X,7HI D :9(15,1H:)715,1HI/25X,1HI,
E10(6H---:):,6H---I/25X,7HI DBZ :9(15,1H:)715,1HI/25X,1HI,
K10(6H---:):,6H---I/25X,7HI H :9(15,1H:)715,1HI/25X,1HI,
O10(6H---:):,6H---I/25X,7HI L :9(15,1H:)715,1HI/25X,1HI,
N10(6H---:):,6H---I/25X,7HI I :9(15,1H:)715,1HI/25X,1HI,
T10(6H---:):,6H---I/25X,7HI TPS :9(15,1H:)715,1HI/25X,1HI,
Y10(6H---:):,6H---I/25X,7HI TDO :9(15,1H:)715,1HI/25X,1HI,
N10(6H---:):,6H---I/25X,7HI V :9(15,1H:)715,1HI/25X,1HI,
U10(6H---:):,6H---I/25X,7HI Q :9(15,1H:)715,1HI/25X,1HI,
A10(6H---:):,6H---I/25X,7HI P :9(15,1H:)715,1HI/25X,1HI,
C10(6H---:):,6H---I/25X,7HI DBO :9(15,1H:)715,1HI/25X,1HI,
Y10(6H---:):,6H---I/25X,7HI DBS :9(15,1H:)715,1HI/25X,1HI,
J10(6H---:):,6H---I/25X,7HI DDO :9(15,1H:)715,1HI/25X,1HI,
N10(6H---:):,6H---I/25X,7HI DDS :9(15,1H:)715,1HI/25X,1HI,
E10(6H---:):,6H---I/25X,7HI M :9(1X,A471H:)71X,A471HI/25X,
11HI,10(6H---:):,6H---I/25X,7HI W :9(15,1H:)715,1HI)
105 FORMAT( 25X,1HI,
L10(6H---:):,6H---I/25X,7HI TDS :9(15,1H:)715,1HI/25X,1HI,
I10(6H---:):,6H---I/25X,7HI OLT :9(15,1H:)715,1HI/25X,1HI,
N10(6H---:):,6H---I/25X,7HI DDZ :9(15,1H:)715,1HI/25X,1HI,
K10(6H---:):,6H---I/25X,7HI TBO :9(15,1H:)715,1HI/25X,1HI,
O10(6H---:):,6H---I/25X,7HI :9(15,1H:)715,1HI/25X,1HI,
N10(6H---:):,6H---I/25X,7HI :9(15,1H:)715,1HI/25X,67(1H=))
106 FORMAT(30I0)
107 FORMAT(7//25X,9HDOAR O NR,15,933H NIE MCHODZI W RELACJE Z CELAMI)
109 FORMAT(9HBLAD W FF)
C PIERWSZE WEJSCIE W ANALIZE
IF (EMC) 0,2000,2000
CALL REWIN
2000 DO 506 K=1,165
UPD(K)=0
500 CONTINUE
IF (UWA) 0,0,1
LCO=0
LMW=0
DO 2 J=1,I
R1=M(J)/100

```

```

IF (R1-10) 0,102,102
LHW=LHW+1
MN(LHW)=N(J)
MX(LHW)=X(J)
MY(LHW)=Y(J)
MSG(LHW)=SG(J)
MH(LHW)=H(J)
MCZ(LHW)=CZ(J)
GO TO 2
102 LCO=LCO+1
DN(LCO)=N(J)
DX(LCO)=X(J)
DY(LCO)=Y(J)
DSG(LCO)=SG(J)
DR(LCO)=H(J)
DCZ(LCO)=CZ(J)
2 CONTINUE
WHA=1
P=17453.2922E-6
DO 500 J=1,165
QC1(J)=0
QCS(J)=0
VC1(J)=0
VCS(J)=0
WZC(J)=0
500 CONTINUE
DO 600 J=1,16
TC(J)=0
TOP(J)=0
600 CONTINUE
RP=0
IC=0
SPR=0
SRR=0
RETURN
ANALIZA MELDUNKOV
C C RYS LIUCE WLASNE
1 DO 3 J=1,I
R1=N(J)/100
IF (R1-10) 0,103,103
IF (R1) 0,3,0
DO 4 L=1,LHW
IF (N(J)-MN(K)) 4,0,4
MX(K)=X(J)
MY(K)=Y(J)
MSG(K)=SG(J)
MH(K)=H(J)
MCZ(K)=CZ(J)
4 GO TO 3
CONTINUE
IF (LHW-40) 0,5,5
LHW=LHW+1
K=LHW
7 MN(K)=N(J)
MX(K)=X(J)
MY(K)=Y(J)
MSG(K)=SG(J)
MH(K)=H(J)
MCZ(K)=CZ(J)
GO TO 3
5 R1=100000
DO 6 L=1,40
IF (MCZ(L)-R1) 0,0,0
R1=MCZ(L)
K=L
6 CONTINUE
GO TO 7
C C CLE
103 DO 8 K=1,LCO
IF (N(J)-DN(K)) 8,0,8
IF (WPD(K)) 3,0,3
WPD(K)=1
DLX=X(J)-DX(K)
DLY=Y(J)-DY(K)
CALL OBLDQ(DLX,DLY,0,0C,P)
CALL ZAMCZ(CZ(J),R1,100)
CALL ZAMCZ(DCZ(K),R1,100)
R1=R1-R

```

```

561 IF (R1) 560,0,560
WRITE(TO,561)
FORMAT(10HCEL ZAWISL)
GO TO 3
560 PA=FLOAT(R1)
RA=PA/RA
VC=ABS(PA)
IF (VC1(K)) 0,18,0
RA=OC+OC1(K)
OCS(K)=PA/2
PA=VC+VC1(K)
VCS(K)=PA/2
DLDS=VCS(K)*60
RA=OCS(K)/P
CALL REXY(X(J),Y(J),RA,DLDS,DXE(K),DYE(K))
18 OC1(K)=OC
VC1(K)=VC
DX(K)=X(J)
DY(K)=Y(J)
DSG(K)=SG(J)
DH(K)=H(J)
DCZ(K)=CZ(J)
GO TO 3
8 CONTINUE
503 IF (LCO-165) 0,9,9
LCO=LCO+1
K=LCO
10 DN(K)=N(J)
DX(K)=X(J)
DY(K)=Y(J)
DSG(K)=SG(J)
DH(K)=H(J)
DCZ(K)=CZ(J)
VC1(K)=0
OC1(K)=0
VCS(K)=0
OCS(K)=0
9 GO TO 3
R1=1
K=0
DO 11 L=1,165
IF (WZC(L)=R1) 11,11,0
R1=WZC(L)
K=L
11 CONTINUE
IF (K) 0,0,10
DO 12 L=1,165
IF (WZC(L)=1) 12,0,12
K=L
GO TO 10
12 CONTINUE
3 CONTINUE
DO 13 J=1,LCO
DO 14 K=1,I
IF (DN(J)-N(K)) 14,0,14
WZC(J)=0
GO TO 13
14 CONTINUE
WZC(J)=WZC(J)+1
13 CONTINUE
DO 130 J=1,LCO
IF (WZC(J)=3) 130,0,130
DN(J)=0
130 CONTINUE
J=1
1111 IF (DN(J)) 1112,0,1112
LCO=LCO-1
DO 1112 K=J,LCO
KR=K+1
DN(K)=DN(KK)
DX(K)=DX(KK)
DY(K)=DY(KK)
DSG(K)=DSG(KK)
DH(K)=DH(KK)
DCZ(K)=DCZ(KK)
DXE(K)=DXE(KK)
DYE(K)=DYE(KK)
OC1(K)=OC1(KK)

```

```
VC1(K)=VC1(KK)
OC5(K)=OC5(KK)
VCS(K)=VCS(KK)
OZC(K)=WZC(KK)
```

1112

CONTINUE

J=J-1

1113

J=J+1

IF (J-LCU) 1111,1111,0

C RELACJA CEL. OBIEKT BRONIONY

IF (QCS(1)) 15,0,15

RETURN

15

RA=FLOAT(II)

RA=RA/6

RA=RA+1

IO=INT(RA)

RI=0

DOAR(1)=0

IF (EMC) 0,201,0

R=4829

GO TO 502

501

R=2414

502

CALL FMOVE(DOAR(1),DOAR(2),R)

DO 503 J=1,20

LC1(J)=0

WC(J)=0

503

CONTINUE

DO 504 J=1,105

WC(J)=0

WPD(J)=0

LH(J)=0

PRC(J)=0

LBR(J)=0

504

CONTINUE

LCV=0

LG=0

LH=0

LZ=0

LH=0

LL=0

LQ=0

LNA=0

LOW=0

LD1=0

DO 505 J=1,LCU

IF (VCS(J)) 0,360,0

R=0

R2=0

IF (DH(J)-5) 0,0,88

88

LH=LH+1

R3=356(J)/100

IF (R3-1) 89,0,0

89

LZ=LZ+1

R3=R3+100

R3=356(J)-R3

IF (R3-2) 0,90,90

LP=LP+1

90

GO TO 460

LG=LG+1

460

DO 37 K=1,10

D(X)=A1(K+R)-DXE(J)

R=R+1

DLY=AT(K+R)-DYE(J)

CALL OBLDQ(DLX,DLY,D,90,P)

RA=QC-QCS(J)

RA=ABS(RA)

RB=90/P

IF (RA-RB) 0,46,46

RA=SIN(RA)

D=D/1000

PU=D*RA

VS=R2+3

RA=FLOAT(A(R3+K))

RS=R2+2

RB=FLOAT(A(R3+K))

IF (PU-RA) 0,0,46

IF (D-RA) 46,0,0

IF (D-RB) 0,0,46

RS=R2+5

```

46      DOAR(K1+K)=A(R3+K)
37      R2=R2+5
380     CONTINUE
56      R1=RT+IO
C      CONTINUE
      MAGI BELOW
      R=1
      R1=1
DO 46 J=1,LCO
      IF (VCS(J)) 0,490,0
      L=0
      IF (J-2) 52,0,0
      R1=J-1
      R=R1+R
      R=R1+1
52      R2=R1+IO
      DO 51 K=R,R2
          IF (DOAR(K)) 0,51,0
          L=L+DOAR(K)
51      CONTINUE
      WN(J)=L
      R2=DSG(J)/100
      R3=R2+100
      R3=DSG(J)-R3
      R2=R2+R3
      WN(J)=WN(J)+R2
490     R=IO
49     CONTINUE
C      MAGI OBIEKTOW
      R2=LCO+IO
DO 47 J=1,R2
      L=0
      R=0
      R1=0
      DO 48 K=J,R2,IO
          R1=R1+1
          IF (DOAR(K)) 0,48,0
          L=L+1
          R=R+WN(R1)
48     CONTINUE
      LC1(J)=L
      WC(J)=R
47     CONTINUE
C      RCLACJA CEL DOAR (MARBALG. ANALIZY)
      RA=FLOAT(W44)
      RA=RA/14
      RA=RA+1
      ID=INT(RA)
      R=0
      R3=0
      LCO=0
      F1=0
      DOAR(1)=0
      IF (EMC) 0,40,0
      R1=4827
      GO TO 41
40     R1=2414
41     CALL MOVE(DOAR(1),DOAR(2),R1)
      WWA=1
      DO 54 J=1,IO
          R2=0+1
          LW11(R2+J)
          IF (L-3) 0,0,21
          IF (WWA-16) 0,0,21
          WEKOR(WWA)=WT1(R+J)
          TC(WWA)=W41(L)
          WWA=WWA+1
          R2=R+13
          R1=WT1(R2+J)/1000
          IF (R1-1) 21,0,21
          LD1=LD1+1
          DO 55 K=1,LCO
              IF (VCS(K)) 0,55,0
              R3=J-1
              DLX=W111(R3+J)-DXE(K)
              R3=J
              DLY=W111(R3+J)-DYE(K)
              CALL OBLDQ(DLX,DLY,D,RC,P)

```

```

10  DB=1000
11  IF (D-200) 0,0,55
12  IF (DH(K)-W34(L)) 0,0,55
13  IF (VCS(K)) 55,55,0
14  IF (VCS(K)-900) 0,0,55
15  RB=DH(K)/10
16  RA=RB/0
17  EPS=ASIN(RA)
18  MTD(1)=H11(J+R)
19  DO 16 DB=1,814,37
20  IF (MTD(1)-0894(DB)) 16,0,16
21  RB=OC/P
22  RB=RB/10
23  R2=NINT(RB)
24  IF (R2) 17,0,17
25  R2=36
26  RB=FLOAT(W694(R2+DB))
27  GO TO 19
28  CONTINUE
29  RB=0
30  IF (RB-EPS) 0,0,55
31  QO=OC-OC5(K)
32  QO=ABS(QO)
33  QO=SIN(QO)
34  QO=QO*0
35  QO=QO*PO
36  EPS=EPS/P
37  QO=QO/P
38  RA=DH(K)/10
39  RM=DSG(K)/100
40  CALL WDDDD(L,VCS(K),QO,EPS,RA ,PO,WM,DB,DD)
41  IF (WM) 91,0,91
42  IF (WPD(K)) 55,0,90
43  WPD(K)=-2
44  GO TO 55
45  IF (WPD(K)) 0,552,552
46  IF (WPD(K)+2) 551,0,551
47  WPD(K)=-1
48  GO TO 553
49  WPD(K)=-3
50  C OBL
51  DDS I DDZ
52  RA=FLOAT(DD)
53  RB=DH(K)/10
54  RA=RA+RA
55  RB=RB+RB
56  RA=RA+RB
57  RE=SQRT(RA)
58  MTD(18)=NINT(RE)
59  RC=RE-S
60  IF (L-2) 0,57,58
61  RC=RC/0,75
62  RC=RC+14,67
63  GO TO 59
64  RC=RC/0,885
65  RC=RC+14
66  GO TO 59
67  RC=RC/0,9
68  RC=RC+12
69  MTD(12)=NINT(RC)
70  RC=RC+2
71  RC=VCS(K)*RC
72  RC=RC/1000
73  PO=SQRT(RD)
74  RE=RA-RB
75  RE=RE-RD
76  IF (RE) 550,0,0
77  RE=SQRT(RE)
78  RE=2*RE
79  RE=RE+RC
80  RC=RC+RC
81  RC=RC+RE
82  DDSK=RC+RA
83  RC=SQRT(DDSK)
84  RE=DH(K)/10
85  IF (RC-RE) 550,550,0
86  MTD(19)=NINT(RC)
87  RA=DDSK-RB
88  RA=RA-RD

```

```

1000
IF (D-200) 0,0,55
IF (DH(K)-M34(L)) 0,0,55
IF (VCS(K)) 55,55,0
IF (VCS(K)-900) 0,0,55
RB=DH(K)/10
RA=RB/0
EPS=ASIN(RA)
MTD(1)=M11(J+R)
DO 16 DB=1,814,37
IF (MTD(1)-0694(DB)) 16,0,16
RB=OC/P
RB=RB/10
R2=NINT(RB)
IF (R2) 17,0,17
R2=36
RB=FLOAT(W694(R2+DB))
GO TO 19
CONTINUE
RB=0
IF (RB-EPS) 0,0,55
OO=OC-OC5(E)
OO=ABS(OO)
OO=SIN(OO)
OO=OO*0
OO=OO*PO
EPS=EPS/P
OO=OO/P
RA=DH(K)/10
WM=DSG(K)/100
CALL WDDDD(L,VCS(K),OO,EPS,RA ,PO,WM,DB,OO)
IF (WP0(K)) 91,0,91
IF (WP0(K)) 55,0,90
MPD(K)=-2
GO TO 55
IF (WP0(K)) 0,552,552
IF (WP0(K)+2) 551,0,551
MPD(K)=-1
GO TO 553
MPD(K)=-3
OBLV DDS I DDZ
RA=FLOAT(OO)
RB=DH(K)/10
RA=RA*RA
RB=RB*RB
RA=RA+RB
RE=SQRT(RA)
MTD(18)=NINT(RE)
RC=RE-5
IF (L-2) 0,57,58
RC=RC/0,75
RC=RC+14,67
GO TO 59
RC=RC/0,885
RC=RC+14
GO TO 59
RC=RC/0,9
RC=RC+12
MTD(12)=NINT(RC)
RC=RC+2
RC=VCS(K)*RC
RC=RC/1000
PO=SQRT(RD)
RE=RA-RB
RE=RE-RD
IF (RE) 550,0,0
RE=SQRT(RE)
RE=2*RE
RE=RE*RC
RC=RC+RC
RC=RC+RE
DDSK=RC+RA
RC=SQRT(DDSK)
RE=DH(K)/10
IF (RC-RE) 550,550,0
MTD(19)=NINT(RC)
RA=DDSK-RB
RA=RA-RD

```

17

16

19

51

552

551

C

553

57

58

59

550

Z

591

```

IF (RA) 550,0,0
RA=SQRT(RA)
PC=FLOAT(W41(L))
PC=VCS(K)*RC
PC=PC/1000
PA=PA+RC
PA=PA*RA
PA=PA+RD
PC=SQRT(RA)
IF (RC-D) 550,0,0

```

ZM D

C

OBL

```

RA=SQRT(RA)
UTD(24)=NINT(RA)
DBS I DBZ
PA=FLOAT(DB)
PA=PA*RA
PC=RA+RB
RE=SQRT(RC)
UTD(10)=NINT(RE)
PA=RE-5.5
IF (L-2) 0,60,61
PA=PA/0.75
PA=PA+14.0
CO TO 62

```

60

61

62

```

PA=PA/0.885
PA=PA+14
CO TO 62
PA=PA/0.9
PA=PA+12
UTD(23)=NINT(RA)
PA=RA+2
PA=VCS(K)+RA
PA=PA/1000
RE=RC-RB
RE=RE-RD

```

620

```

IF (RE) 550,0,0
RE=SQRT(RE)
RE=2*RE
RE=RE*RA
PA=PA+RE
DBSK=RA+RC
RE=SQRT(DBSK)
PC=DH(K)/10
IF (RE-RC) 550,550,0
UTD(17)=NINT(RE)
PA=DBSK-RB
PA=PA-RD

```

ZM D

621

```

IF (RA) 550,0,0
RA=SQRT(RA)
PC=FLOAT(W41(L))
PC=VCS(K)*RC
PC=PC/1000
PA=PA+RC
PA=PA*RA
PA=PA+RD
PC=SQRT(RA)
IF (RC-D) 0,0,550
PA=PA+RB
RA=SQRT(RA)
UTD(7)=NINT(RA)
TPS I TDS
RA=DDSK-RB
PA=RA-RD

```

ZM D

C

OBL

```

IF (RA) 550,0,0
PA=SQRT(RA)
RC=DBSK-RB
PC=RC-RD
IF (RC) 550,0,0
PC=SQRT(RC)
PA=PA-RC
PA=PA*1000
PA=PA/VCS(K)
UTD(11)=NINT(RA)
PA=D*D
PA=PA-RD
IF (RA) 550,0,0
RA=SQRT(RA)

```

```

RC=JDSK-RD
IF (RC) 550,0,0
RC=SQRT(RC)
PA=RA-RC
RA=RA*1000
RA=RA/VC5(K)
WTD(24)=NINT(RA)
FONKJJI CELU (WAGA)
RA=RH(K)/10
IF (RA-7.5) 0,0,63
RB=7.5-RA
RC=0.0121*RB
RD=0.27*RB
RC=RC+RD
RC=RC*RC
GO TO 64
RB=RA-7.5
RC=0.108*RB
RD=0.58*RB
RC=RC+RD
RC=RC*RC
IF (RC-122.4-RC)
RC=RC*RC
RB=D*300
RB=RB*1000
RB=VC5(K)+800
RB=RB/700
RB=RB/1000
IF (WB-2) 0,65,0
RB=RB*0.55
GO TO 66
RB=RB*0.57
WTD(20)=WB
RD=0.25*RB
RB=RB+RD
RB=2*RB
RB=RC+RB
RD=RD*RD
RD=RD*RD
RD=RU
RD=EXP(RD)
RB=RC*RE
RB=RB*RD
RT=WTD(11)
IF (RT-1) 67,0,0
IF (RT-6) 0,0,68
DD=1
GO TO 69
IF (RT-12) 0,0,70
DD=2
GO TO 69
DD=3
RB=1-RB
RC=1
GO 72 RB=1,00
RC=RC*RB
CONTINUE
RB=1-RC
GO TO 73
RB=0
RB=RB*0.8
DB=DSG(K)/100
IF (DB-1) 730,0,731
RB=RB*0.8
GO TO 730
IF (DB-2) 0,0,732
RB=RB*0.6
GO TO 730
RB=RB*0.4
PRC(K)=RB
LRR(K)=DD
RB=10*RB
IF (RA-1) 0,0,74
IF (PO-5) 0,0,74
RB=RB+10
DD=NINT(RB)
WTD(21)=WN(K)+DD
UZUPELNIENIE WTD

```

C OBL.

63

64

65

66

68

70

69

72

67

73

751

752

750

74

C UZUPELNIENIE

```

R2=R+13
WTD(2)=W11(R2+J)
WTD(3)=DN(K)
WTD(4)=DSG(K)
RB=QC/P
WTD(5)=NINT(RB)
WTD(6)=NINT(D)
WTD(8)=NINT(DH(K))
WTD(9)=0
WTD(13)=NINT(VCS(K))
WTD(14)=NINT(QO)
WTD(15)=NINT(PO)
R2=DSG(K)/100
R2=R2*100
WTD(10)=DSG(K)-R2
WTD(25)=WTD(13)
CALL UDOAR
GO TO 55
IF (WPD(K)+1) 55,020
WPD(K)=+2
CONTINUE
R=R+13
CONTINUE
DO 75 J=1,4501,300
IF (DOAR(J)) 0,50850
F1=F1+1
DO 76 K=1,9
R1=K-T
R1=R1+30
R2=R1+21
R1=R+21
R3=R+22
IF (DOAR(R3+J)) 0,75,0
DOAR(R3+J)=DOAR(R1+J)-DOAR(R2+J)
CONTINUE
CONTINUE
YHORZENIE TABLICY PH
K=0
DO 80 J=1,LCO
IF (WPD(J)) 0,86,86
IF (WPD(J)+2) 0,87,80
LR=LR+1
GO TO 86
LL=LL+1
K=K+1
LN(K)=N(J)
CONTINUE
LCD=LL-LR
LNA=LCO-LCD
LCP=LCO-LR
DRUK TABLIC DOAR
DO 85 K=1,30
WTD(K)=0
CONTINUE
IF (EL(Y)-1) 0,0,80
DB=0
850 READ(2,106)DD
IF (DD) 0,108,0
DB=DB+1
WTD(DB)=DD
GO TO 850
108 IF (DB) 0,80,0
IF (F1) 0,20,0
R=R+1
R=R+300
DO 87 K=1,DB
DO 82 J=1,R,300
IF (WTD(K)=DOAR(J)) 82,0,82
R1=J+300
R1=R1-1
R3=0
R3=0
DO 83 L=2,20
DO 84 DD=J,R1,30
R3=R3+1
WPD(R3)=DOAR(L+DD)
84 CONTINUE

```

```

83 CONTINUE
DO 110 L=171,180
IF (WPD(L)) 0,111,0
DD=WPD(L)
WPD(L)=KOD(DD)
GO TO 110
111 WPD(L)=KOD(5)
110 CONTINUE
R2=J+1
WRITE(1,104) DOAR(J),DOAR(R2),WPD(R2),R2=171,190
WRITE(1,105) (WPD(R2),R2=191,250)
GO TO 81
82 CONTINUE
WRITE(1,107) WID(K)
81 CONTINUE
GO TO 80
20 WRITE(1,120)
120 FORMAT(//725X#21#BRAK RELACJI CEL-DOAR)
GO TO 505
C TWORZENIE TABLIC DLA FORDA-FULKERSONA
80 IF (F1) 0,505,0
F=F1
R=0
DO 77 J=1,F1
FN(J)=DOAR(R+J)
R3=J-1
R3#R3+10
R3#R3+1
DO 78 R=U,9
R1=R1+R
R2=R1+2
IF (DOAR(R2+J)) 0,79,0
FN(R3+K)=DOAR(R2+J)
R2=R1+20
FD(R3+K)=52767-DOAR(R2+J)
GO TO 78
79 FN(R3+K)=0
FD(R3+K)=52767
78 CONTINUE
R=R+299
77 CONTINUE
DO 770 J=1,Y
IF (FN(J)) 0,771,0
R=J+1
DO 772 K=R,10
IF (FU(K)-52767) 0,770,0
IF (FD(K)-FD(J)) 0,772,772
R1=FN(J)
FR(J)=FN(K)
FN(K)=R1
R1=FD(J)
FD(J)=FD(K)
FD(K)=R1
772 CONTINUE
770 CONTINUE
771 CALL FF
505 DO 56 J=1,105
WPD(J)=0
56 CONTINUE
C PRZESLANIE DANYCH DLA PW DO WPD
WPD(97)=LCO
WPD(98)=LCD
WPD(99)=LCP
WPD(100)=LG
WPD(101)=LP
WPD(102)=LZ
WPD(103)=LH
WPD(104)=LR
WPD(105)=LL
WPD(106)=LNA
WPD(107)=LMW
WPD(114)=ID
WPD(115)=LBI
R1=116
R2=136
DO 95 J=1,20

```

```

95      WPD(R1+J)=LC1(J)
        WPD(R2+J)=W0(J)
C      CONTINUE
ANALIZA  WYNIKOW  F=F
IF (F1) 0,50720
R=0
WH=F1*LR
DO 200 J=1,F1
R1=0
DO 201 K=J*WM,F1
R1=R1+1
IF (FD(K)) 0,201,0
R2=J-1
R2=R2+300
DD=FD(R)*1000
R3=R2+3
DO 202 L=0,29
DB=L+30
IF (FN(R1)-DOAR(R3+DB)) 202,0,202
R3=R2+4
DOAR(R3+DB)=DOAR(R3+DB)+DD
WVA=0
DO 203 DD=1,16
IF (WKBDR(DD)-DOAR(R2+1)) 203,0,203
R=DD-1
R=R+6
R3=R2+DB
DO 204 LNA=308
IF (LNA-C) 0,204,0
WVA=WVA+1
WPD(R+WVA)=DOAR(R3+LNA)
CONTINUE
WVA=WVA+1
WPD(R+WVA)=DOAR(R3+4)
LDW=LDW+1
IF (BL(6)-4) 201,0,201
DO 210 F=1,LCO
IF (FN(R1)-DN(F)) 210,0,210
CALL ZAMCZ(DCZ(F),KK,100)
IF (TOP(DD)) 211,0,211
TOP(DD)=KK
SPR=SPR+PRC(F)
SRR=SRR+LPR(F)
DN(F)=0
WP=WP+1
DO 212 WVA=1,11
IF (N(WVA)-FN(R1)) 212,0,212
N(WVA)=0
GO TO 201
CONTINUE
PAUSE 123
GO TO 201
WVA=KK-TOP(DD)
IF (WVA-TC(DD)) 201,0,0
TOP(DD)=KK
SPR=SPR+PRC(F)
SRR=SRR+LPR(F)
DN(F)=0
WP=WP+1
DO 213 WVA=1,11
IF (N(WVA)-FN(R1)) 213,0,213
N(WVA)=0
GO TO 201
CONTINUE
PAUSE 123
GO TO 201
CONTINUE
WRITE(10,109)
203      GO TO 201
202      CONTINUE
201      GO TO 201
200      CONTINUE
        WPD(116)=LDW
        IC=IC+LR
        WPD(106)=LR-LDW

```



```

SUBROUTINE EFEKT(V, PRZ, BAZA)
INTEGER V(3001), S(16), INTE(7), N, EFEKT(36), PI, K, CELE(36), AA(448),
+ BB(27), SYMB(29), L, KK(30), INTE1(77), J6, VV(3001), (6, M1, N6, ILRAK(36)
+ REAL PRZ(4), BAZA(2), S1(8), XXX(3), AZYM(36), PQ, ROB, X(37), Y(37), XO, YO,
+ PR4, Z5, XA, YA, XB, YB, R1, R2, R3, R4, A(4), PAT1(64), B11(162), Z1, Z2,
+ COMMON /ORUK/ AA, BB, A11, B11, SYMB, REAL1, INTE1, REAL2, KK, J6, VV, I6,
+ M1, N6
COMMON /UNUN/ S, S1
COMMON /OSOJA/ LALA, INTE, N, EFEKT, CELE, ILRAK, XXX, AZYM, PRAWD
D= 17453.29252E-6
IF (N) 100, 100, 0
K=0
DO 1 I=1, N
ROB = FLUAT(EFEKT(I))
X(I) = 1000.0E3*ROB
K = K + EFEKT(I)
CONTINUE
IF (K) 191, 191, 0
Z1 = PRZ(1)
Z2 = PRZ(2)
Z4 = PRZ(3)
Z5 = PRZ(4)
XA = 360.0 * Z2
XA = BAZA(1) + XA
YA = 360.0 * Z1
YA = BAZA(2) + YA
XB = 360.0 * Z2
XB = BAZA(1) + XB
YB = 360.0 * Z1
YB = BAZA(2) + YB
XO = S1(7)
YO = S1(8)
R1 = XB - YO
R2 = YB - XO
R3 = XO - XA
R4 = YO - YA
R = R2 / R1
R = ATAN(R)
A(1) = R / O
R = R2 / R3
R = ATAN(R)
R = R / O
A(2) = 180.0 - R
R = R4 / R3
R = ATAN(R)
R = R / O
A(3) = 180.0 + R
R = R4 / R1
R = ATAN(R)
R = R / O
A(4) = 360.0 - R
DO 10 I=1, N
R = AZYM(I)
IF (R - 360.0) 2, 0, 0
R = R - 360.0
AZYM(I) = R
DO 3 K=1, 4
IF (R - A(K)) 4, 4, 0
CONTINUE
K = K + 1
GOTO (0, 5, 6, 7) K
ROB = R1
GOTO 8
ROB = R2
R = 90.0
GOTO 5
ROB = R3
R = 180.0
GOTO 8
ROB = R4
R = 270.0
R = R * O
R = COS(R)
ROB = R / X(I)
IF (X(I) - 0) 10, 10, 0
R = R / X(I)
DO 9 K=1, N

```

1

2

3

4

5

6

7

8

```

9          X(K)=R*X(K)
          CONTINUE
10        CONTINUE
          DO 11 I=1,N
             R=X(I)
             CALL NEWXY(X0,Y0,AZYH(I),R,X(I),Y(I))
11        CONTINUE
          R=YA
          DO 12 I=5,115
             V(1)=50
             CALL SS4(X0,R,Z1,Z2,Z4,Z5,KK,J6,V,I6,M1,N6)
             R=R+Z1
12        CONTINUE
          R=XA
          DO 13 I=5,95
             V(1)=10
             CALL SS4(X0,Y0,Z1,Z2,Z4,Z5,KK,J6,V,I6,M1,N6)
             R=R+Z2
13        CONTINUE
          IF (N-2) 15,15,0
          X(N+1)=X(1)
          Y(N+1)=Y(1)
          SYMB(26)=26
          K=1
          DO 14 I=1,N
             K=R+1
             CALL SS5(KK,Z1,Z2,Z4,Z5,X(I),X(K),Y(I),Y(K),J6,I6,M1,N6,R1,R2,V)
14        CONTINUE
          SYMB(26)=28
15        V(1)=27
             KK(1)=0
             CALL SS4(X0,Y0,Z1,Z2,Z4,Z5,KK,J6,V,I6,M1,N6)
          DO 19 I=1,N
             K=EFEKT(I)
             IF (K) 19,19,0
             V(1)=26
             R1=X(I)
             R2=Y(I)+Z1
             CALL SS4(R1,R2,Z1,Z2,Z4,Z5,KK,J6,V,I6,M1,N6)
             V(1)=K/100
             L=100*V(1)
             K=K-L
             L=L/10
             IF (V(1)) 16,16,0
             CALL SS4(R1,R2,Z1,Z2,Z4,Z5,KK,J6,V,I6,M1,N6)
             R2=R2+Z1
             GO TO 17
16          IF (L) 16,18,0
17          V(1)=L
             CALL SS4(R1,R2,Z1,Z2,Z4,Z5,KK,J6,V,I6,M1,N6)
             R2=R2+Z1
18          L=10*L
             V(1)=K-L
             CALL SS4(R1,R2,Z1,Z2,Z4,Z5,KK,J6,V,I6,M1,N6)
             R2=R2+Z1
             V(1)=16
             CALL SS4(R1,R2,Z1,Z2,Z4,Z5,KK,J6,V,I6,M1,N6)
19        CONTINUE
191       WRITE(1,20)
20        FORMAT(//////37H TABELA WSKAZNIKOW OCENY EFEKTYWNOSCI /1X/
+ 54HODPARCIA NALOTU PRZEZ UGRUPOWANIE ODDZIALU (ZT) WR OPK /)
          WRITE(1,21)
21        FORMAT(1X,70(1H=))
          WRITE(1,22)
22        FORMAT(1X,44HI AZYMUT ILO MOZLIWYCH ILO CELOW I EFEKTYW- I 7
+ 25H SREDNIE ILI MOZLIWYCHI/1X,23HIKIERUNKUIDO OSTRZELA-I 7
+ 47HPRZEPUSZ-INOSC ODPARIP-SIMO ZNISZIDO WYSTRZELEI /1X,8HI NALOTU,
+ 62HI NIA CELOW I CZONYCH ICIA NALOTUI CZENIA CELUI NIA RAKIET I)
          WRITE(1,23)
23        FORMAT(2H I,8(1H-),1HI,12(1H-),1HI,8(1H-),11HI,10(1H-),11HI,12(1H-)7
+ 1HI,12(1H-),1HI)
          L=0
          DO 27 I=1,N
             K=CELE(I)-EFEKT(I)
             R1=FLOAT(EFEKT(I))
             R2=FLOAT(CELE(I))
             R=0
             IF (R2) 44,25,0

```

```
24 R=R1/R2
RZ=0
IF (R1) 25,25,0
RZ=PRAND(1)/RT
25 WRITE(1,20) AZYM(I),DEFEKT(I),K,PRR2,ILRAK(I)
26 FORMAT(20,I,F6.1,23H I,I,2,4X,21HI,I6.4H I,F8.3,3H I,F9.3)
+ 4H I,I,8,5H I)
L=L+DEFEKT(I)
27 CONTINUE
WRITE(1,21)
WRITE(1,28)
28 FORMAT(//////)
IF (L) 0,100,0
RETURN
100 STOP 74
END
```

```

SUBROUTINE IKAR
INTEGER SKALA,DT
REAL S1(8),PRT(2)
INTEGER ICEL,IRUB,K,T,N,CZYJ(3),T(3),L,NGRUP,J,VV,W,R,R1,R2,S(16),
- REAL POPAZ(6),X,Y,XI,YI,X2,Y2,ROB,R3,R4,R5,AS,DESPA(3),HO(3),
- VO(3),XO(3),YO(3),XC(165),YC(165),HC(165),D(27),V(27),H(27)
+ EF,EFEKT(36),ALI,ALA(36),SRAK,ILRAK(36)
REAL PSTWO,AZ(3),AZEF(36),PRAWO(36)
COMMON /GSOJA/PSTWO,EF,ALI,SRAK,CZAS1,CZAS2,CZAS3,PAZYM,
+ INDEF,EFEKT,ALA,ILRAK,AZ,AZEF,PRAWO
COMMON /UNUM/ S1,S1,T,PRT,D,XO,YO,VO,HO,V,W,IRUB,SKALA,CZAS,DT,A,
- Z,G,CZASK,CZYJ
COMMON /URDH/ NC,XC,YC, GC,HC,TC,ICEL
DATA POPAZ/0,-90,0,-45,0,3*90/
IF (ICEL) 0,0,100
CALL YTIME(CZAS1)
CALL ZAH CZ(CZAS,CZAS2,100)
CALL ZAH CZ(CZASK,CZAS3,100)
CZAS3=CZAS2+CZAS3
DO 10 I=1,IRUB
  AZ(I)=A(I)
CONTINUE
ICEL=0
K=0
DO 90 I=1,IRUB
  ICEL=ICEL+1
  XC(ICEL)=XO(I)
  YC(ICEL)=YO(I)
  GC(ICEL)=T
  HC(ICEL)=HO(I)
  N=10+CZYJ(I)
  N=N+1
  N=100*N
  NC(ICEL)=N+1
  TC(ICEL)=CZAS
  AS = A(I)+POPAZ(4)
  L = T(I)-K
  IF (L) 90,90,0
  DES = 0
  NGRUP = 0
  DO 80 J=1,L
    VV = K+J
    DES=DES+D(VV)
    R1=Z(VV)+100
    R1=R1+1
    R2=G(VV)
    R3=H(VV)
    CALL NEUXY(XO(I),YO(I),AS,DESP,X,Y)
    ICEL = ICEL+1
    XC(ICEL)=X
    YC(ICEL)=Y
    GC(ICEL)=R1
    HC(ICEL)=R3
    NGRUP = NGRUP+10
    VV = NGRUP + N
    TC(ICEL)=CZAS
    NC(ICEL)=VV+1
    IF (R2-1) 80,80,0
    R5 = 5000
    R4 = AS
    DO 70 Q=2,R2
      R4 = R4+POPAZ(6)
      ICEL=ICEL+1
      CALL NEUXY(X,Y,R4,R5,XC(ICEL),YC(ICEL))
      HC(ICEL)=VV+Q
      GC(ICEL)=R1
      HC(ICEL)=R3
      TC(ICEL)=CZAS
      R5=4000
    RETURN
  CONTINUE
CONTINUE
K=T(I)
CONTINUE
RETURN
CALL YTIME(L)
I=LHCZAS1

```

10

70
80
90
100

```

CZAS1=L
IF (I) 0,0,101
I=30
101 CZAS2=CZAS2+I
IF (CZAS2 - CZAS3) 0,0,200
CALL ZAMCZ(CZAS2,R2,60)
RS=FLOAT(I)
L=-1
DO 190 I=1,ICEL
K=RC(I)
IF (K) 190,190,0
L=K/1000
O=1000-L
K=K-O
R=K/100
N=100*R
N=K-N
N=N/10
L=0
IF (R-2) 110,0,0
L=T(R-1)
110 IF (N) 0,0,120
ROB=Y0(R)
GOTO 130
120 ROB=Y(L+N)
130 ROB=RS*ROB
CALL NEWXY(XC(I),YC(I),A(R),ROB,XC(I),YC(I))
TC(I)=R2
190 CONTINUE
IF (L) 200,0,0
RETURN
200 IF (INDEF) 0,0,300
AZYH=0
INDEF=0
300 ICEL=-1
INDEF=INDEF+1
EFFECT(INDEF)=EF
ALAI(INDEF)=ALI
PRAWO(INDEF)=PSTWO
ILRAK(INDEF)=SRAK
R4=0
ROB=FLOAT(S(4))
X2=S1(7)
Y2=S1(8)
DO 310 I=1,INHUB
X=X0(I)-X2
Y=Y0(I)-Y2
X1=X+X
Y1=Y+Y
R3=X1+Y1
R3=SQRT(R3)
R5=X/R3
R5=ASIN(R5)
R5=R5/1.453.29252E-6
IF (Y) 0,0,301
R5=270.0+R5
GO TO 302
301 R5=90.0-R5
302 R4=R4+R5
R5=R5+ROB
CALL NEWXY(X2,Y2,R5,R3,X0(I),Y0(I))
A(I)=AZ(I)+ROB
310 CONTINUE
RS=FLOAT(INHUB)
AZEF(INDEF)=R4/RS
AZYH=AZYH+S(4)
END
RETURN

```

```

SUBROUTINE CELE
  INTEGER A(1), AT1, AT2, I, E, A(265), K(34), M(6), P(96), PA0, KO, MO, PO, T0
  A A A A A
  F, G, TABL(20), AA, BB(10), TO, MM1(165), MM2(165),
  MM4(165), CZAS(165), II,
  KLUCZ, ALE,
  M1(165), M2(165), M3(165), M4(165), M5(165), M6(165),
  CZAS0, I1, I2, I3, ROB, ROB1, ROB2
  REAL W(102), Z(180), W0, Z0, X(165), Y(165), MM5(165)
  COMMON /DRODZ/ MM1, X, Y, MM4, MM5, CZAS, II
  COMMON /ODD0/ KO, MO, PO, Z
  COMMON /UUUU/ KLUCZ
  DATA A(15)/1/PA(16)/2/PA(17)/3/PA(18)/4/PA(19)/5/PA(20)/6/PA
  A(21)/7/PA(22)/8/PA(23)/9/
  WRITE(10,7)
  7 FORMAT (25HPZYGOT.MELDUNKI O CELACH)
  PAUSE
  CALL DEFSUF(5,80,TABL)
  CALL SSRICH(8,ALE)
  ALE=ALE+1
  DO 6 KO=25,05
    A(KO)=0
  6 CONTINUE
  II=1
  20 CALL READT(TABL,ALE)
  TO=1
  READ(5,106) M(1),M(2),PA0
  IF(KLUCZ)0,0,2
  106 FORMAT (3I0)
  IF(M(1)+1)0,126,0
  PO=3
  IF(A0)0,0,0
  IF(A0-1000)0,12,12
  M(4)=A0
  PO=5
  GO TO 10
  12 M(3)=A0
  PO=6
  10 READ(5,108) M(1),M(2),PA0Z(BB(I),I=1,TO)
  IF(KLUCZ)0,0,2
  TO=TO+1
  108 FORMAT (12I0)
  IF(BB(TO-1))13,0,0
  IF(PO-6)0,0,15
  M(PO)=BB(TO-1)
  PO=PO+1
  GO TO 10
  8 M(6)=A0
  GOTO 14
  13 M(6)=BB(TO-1)
  14 IF(PO-6)0,19,19
  M(PO)=0
  PO=PO+1
  GOTO 14
  15 WRITE(10,16) M(1)
  16 FORMAT (25HLEDRY MELDUNKI O NRCELU,14)
  18 READ(5,17) M(1),M(2),PA0Z(BB(I),I=1,TO)
  IF(KLUCZ)0,0,2
  TO=TO+1
  17 FORMAT (10I0)
  IF(BB(TO-1))20,18,18
  19 M(3)=0
  MM1(II)=M(1)
  MM2(II)=M(2)
  MM4(II)=M(4)
  MM5(II)=FLOAT(M(5))
  CZAS(II)=-M(6)
  21 A(1)=KO
  A0=0
  KO=1
  22 IF(A(1))102,0,23
  IF(A(25+KO))0,0,23
  A(1)=1
  A(2)=KO
  GOTO 24
  23 IF(A(25+KO)-M(1))0,26,0
  24 IF(KO-40)0,25,102
  KO=KO+1
  GOTO 22

```

25 IF(M(2)) -1000000)102,0,0
 A11=25+K0
 A11=25+R(1)
 26 IF(M(4)) 0,28,0
 IF(M(4)) -1000000)28,28
 IF(M(4)) -R(17))0,27,0
 IF(M(4)) -R(18))0,27,0
 IF(M(4)) -R(19))0,27,0
 IF(M(4)) -R(20))28,0,28
 27 A0=1
 28 A11=(2) -1000000)30,0,0
 29 A11=H(2)/1000000
 A12=A11/100
 A12=A12*100
 A(1)=A11-A12
 A11=H(2)/1000000
 A12=A11/10
 A12=A12*10
 A(2)=A11-A12
 30 IF(A(1)) -R(17))33,31,33
 IF(A(2)) -1000000)39,0,0
 A11=H(2)/1000000
 A12=A11/10
 A12=A12*10
 A(2)=A11-A12
 31 IF(A(2)) -R(3))0,34,0
 IF(A(2)) -R(4))0,35,0
 32 IF(A(2)) -R(5))0,36,0
 IF(A(2)) -R(6))102,37,102
 33 IF(A(1)) -R(2))102,32,102
 34 A11=05+K0
 A(11)=105+R(26)
 A(11)=105+R(27)
 A(11)=225+K0
 A(11)=1
 35 A(11)=05+K0
 A(11)=105+R(28)
 A(11)=105+R(29)
 A(11)=225+K0
 A(11)=2
 36 A(11)=05+K0
 A(11)=105+R(30)
 A(11)=105+R(31)
 A(11)=225+K0
 A(11)=3
 37 A(11)=05+K0
 A(11)=105+R(32)
 A(11)=105+R(33)
 A(11)=225+K0
 A(11)=4
 38 A(11)=05+K0
 A(11)=A(A11)
 CALL PP1(A(1),A(2))
 A(11)=05+R0
 A(11)=A(2)
 A(11)=105+K0
 A(11)=A(A11)
 CALL PP1(A(1),A(2))
 A(11)=105+K0
 A(11)=A(2)
 39 IF(A(225+K0)) -R(21))40,40,0
 A(1)=R(24)
 CALL PP1(A(1),A(2))
 A(8)=A(2)
 A(1)=R(25)
 CALL PP1(A(1),A(2))
 A(13)=A(2)
 40 A(1)=R(2)

```

CALL PP1(A(1),A(2))
A(8)=A(2)
A(1)=K(23)
CALL PP1(A(1),A(2))
41 A(13)=A(2)
A(3)=4
CALL PP2(A(8),A(3))
A(3)=6
CALL PP3(A(3),A(13))
IF(M(2)=1000)46,0,0
A11=65+K0
A(5)=A(A11)
A11=105+K0
A(10)=A(A11)
A11=A(2)/10000
A12=A11/10
A12=A12*10
A(1)=A11-A12
PO=7
42 IF(A(1)-K(PU))0,43,0
IF(PO-10)0,102,102
PO=PO+1
GOTO 42
43 A(2)=PO-7
A(2)=A(2)+A(8)
A(5)=A(5)+A(2)
A11=M(2)/1000
A12=A11/10
A12=A12*10
A(1)=A11-A12
PO=11
44 IF(A(1)-K(PU))0,45,0
IF(PO-10)0,102,102
PO=PO+1
GOTO 44
45 A(2)=PO-11
A(2)=A(2)+A(13)
A(10)=A(10)+A(2)
A12=145+K0
A(A12)=A(5)
A12=185+K0
A(A12)=A(10)
GOTO 47
46 A12=145+K0
A(5)=A(A12)
A12=185+K0
A(10)=A(A12)
47 A(3)=3
CALL PP2(A(8),A(3))
A(3)=3
CALL PP3(A(3),A(13))
PO=0
A11=M(2)/100
A12=A11/10
A12=A12*10
A(1)=A11-A12
48 DO 150 I=1,9
IF(A(1)-A(13+I))150,0,150
A(3)=I
GOTO 151
150 CONTINUE
A(3)=0
151 IF(A(3))102,102,0
A(3)=A(5)+36
AA=A(3)+12
T=0
DO 209 I=49,57
T=T+1
IF(AA-I)209,0,209
GOTO (49,50,51,52,53,54,55,56,57)T
CONTINUE
49 A(4)=2+A(8)
A(2)=0
GOTO 50
50 A(4)=A(8)+2
A(2)=A(13)
GOTO 51
51 A(4)=2+A(8)

```

```

A(2) = 2 * A(13)
52 A(4) = 5 * A(8)
A(2) = 2 * A(13)
53 A(4) = 5 * A(8)
A(2) = 2 * A(13)
54 A(4) = 5 * A(8)
A(2) = A(13)
55 A(4) = 5 * A(8)
A(2) = 0
56 A(4) = A(8)
A(2) = 0
57 A(4) = A(8)
A(2) = A(13)
58 A(5) = A(5) + A(4)
A(10) = A(10) + A(2)
IF(P0) 102, 0, 52
P0 = 1
A(3) = 3
CALL PP2(A(8), A(3))
CALL PP3(A(5), A(13))
A11 = H(2) / 10
A12 = A11 / 10
A12 = A12 * 10
A(1) = A11 - A12
59 A(3) = 2
CALL PP2(A(8), A(3))
CALL PP3(A(5), A(13))
A12 = H(2) / 10
A12 = A12 * 10
A(1) = H(2) - A12
IF(A(1)) 102, 60, 0
DO 153 I = 1, 4
IF(A(1) - A(15 + I)) 153, 0, 153
A(3) = 1
153 CONTINUE
154 IF(A(3)) 102, 102, 0
A(3) = 4 * A(3)
AA = A(3) + 12
T = 0
DO 310 I = 61, 69
T = T + 1
IF(AA - I) 310, 0, 310
GOTO (61, 62, 63, 64, 65, 66, 67, 68, 69) T
310 CONTINUE
60 A(5) = A(5) + A(8)
A(10) = A(10) + A(13)
GOTO 65
61 A(5) = A(5) + A(8)
GOTO 64
62 A(5) = A(5) + A(8)
A(10) = A(10) + A(13)
GOTO 64
63 A(10) = A(10) + A(13)
64 A(3) = 2
CALL PP2(A(8), A(3))
CALL PP3(A(5), A(13))
A(5) = A(5) + A(8)
A(10) = A(10) + A(13)
65 A(8) = A(10)
CALL PP4(A(8), A(6), A(7))
A(10) = A(6)
A(11) = A(7)
A(12) = A(8)
A(8) = A(5)
CALL PP4(A(6), A(6), A(7))
A(5) = A(6)
A(6) = A(7)
A(7) = A(8)
A(3) = INT(W0)

```

IF(A(6)-30)90,0

A(1)=A(6)

A(1)=A(1)-30

A(1)=A(1)+60

A(1)=A(1)+A(7)

PO=A(5)

PO=PO-A(3)

PO=PO+2

PO=PO+1

66

GOTO 67

A(1)=A(6)

A(1)=A(1)+60

A(1)=A(1)+A(7)

PO=A(5)

PO=PO-A(3)

PO=PO+2

67

PO=PO+6

Z(1)=FLOAT(A(1))

A(3)=1

A(2)=K(34)

68

A(1)=A(2)+6

IF(A(1)-A(1))69,0,0

IF(A(3)-4)0,102,102

A(3)=A(3)+1

A(2)=A(2)+1

69

GOTO 68

A(3)=A(1)-3

H(3)=A(2)

H(3)=H(3)+1000000

H(3)=H(3)+500000

A(1)=A(10)

A(1)=A(1)-A(3)

A(1)=A(1)+3000

A(3)=A(11)

A(3)=A(3)+60

A(1)=A(1)+A(3)

A(1)=A(1)+A(12)

Z(2)=FLOAT(A(1))

Z(2)=Z(2)/10000

A11=PO+2

Z(3)=W(A11)

Z(3)=Z(3)+Z(1)

A11=PO+1

Z(3)=Z(3)+W(A11)

A11=PO+4

Z(4)=W(A11)

Z(4)=Z(4)+Z(1)

Z(4)=Z(4)

A11=PO+3

Z(4)=Z(4)+W(A11)

Z(4)=Z(4)+Z(2)

Z(4)=Z(4)+Z(2)

Z(3)=Z(3)+Z(4)

H(2)=INT(Z(3))

Z(3)=FLOAT(H(3))

A11=PO+6

Z(4)=W(A11)

Z(4)=Z(4)+Z(1)

Z(4)=Z(4)

A11=PO+5

Z(4)=Z(4)+W(A11)

Z(4)=Z(4)+Z(2)

Z(3)=Z(3)+Z(4)

H(3)=INT(Z(3))

X(11)=FLOAT(H(2))

Y(11)=FLOAT(H(3))

H1(11)=A(5)

H2(11)=A(6)

H3(11)=A(7)

H4(11)=A(10)

H5(11)=A(11)

H6(11)=A(12)

II=II+1

IF(II-105)0,0,100

IF(A0)0,20,0

A11=25+K0

A(A11)=0

GOTO 20

```

102 WRITE(10,16) MM1(II)
GOTO 20
2 PAUSE 774
KLUCZ=0
GOTO 1
126 II=II-1
300 WRITE(1,88)
88 FORMAT (//108(1H-))/2H I,39X,1HI,25X,1HI,39X,1HI/2H I,2X,
AAA 35HMELDUNEK OKRESLAJACY POLOZENIE CELU,2X,1HI,2X,
AAA 19HMSPOLRZEDNE (FI,LA),4X,1HI,2X,
AAA 35HMELDUNEK OKRESLAJACY POLOZENIE CELU,2X,1HI/2H I,5X,
AAA 28HMG.WSPOLRZEDNYCH SIATKI OPL,6X,1HI,10X,4HCELU,11X,
AAA 1HI,1X,37HMG.WSPOLRZEDNYCH PROSTOKATNYCH (X,Y),
AAA 2H I/2H I,39X,1HI,25X,1HI,39X,1HI/108(1H-))
DO 130 I=1,1I
WRITE(1,201) MM1(I),MM2(I),MM4(I),MM5(I),CZAS(I),
AAA MM1(I),MM2(I),MM3(I),MM4(I),MM5(I),MM6(I),
AAA MM1(I),X(I),Y(I),MM4(I),MM5(I),CZAS(I)
150 CONTINUE
201 FORMAT (2H I,1X,I4,1X,I8,1X,I8,1X,4X,F4.0,I6,
AAA 1X,5HI FI=,I2,1X,I2,1X,I2,1X,I2,1X,3H LA=,I2,
AAA 1X,I2,1X,I2,1X,2HI ,I4,1X,F8.0,1X,F8.0,1X,
AAA I3,1X,F4.0,I6,1X,1HI/2H I,39X,1HI,25X,
AAA 1HI,39X,1HI)
147 WRITE(1,127)
FORMAT (108(1H-))
RETURN
END

```

```

SUBROUTINE MELD
INTEGER KLUCZ, ALE, NO, TABL(20), I, SGO, N(165), SG(165)
A      I1, CZASO, CZAS(165), I2, I3, PROB, ROB1, ROB2, S(16)
REAL TO, DO, HO, T(165), D(165), H(165), D1, DZDA, XX, YY,
A      X(165), Y(165), S1(8)
COMMON /UMUN/ S, S1
COMMON /DRDR/ N, X, Y, SGO, H, CZAS, I
COMMON /UUUO/ KLUCZ
CALL DEFBUF(5, 80, TABL)
WRITE(10, 30)
30  FORMAT (25H PRZYLOT, MELDUNKI O CELACH)
PAUSE
31  CALL SWITCH(8, ALE)
ALE = ALE + 1
I = 1
4   CALL READY(TABL, ALE)
READ(5, 8) NO
IF(KLUCZ) 0, 0, 32
8   FORMAT (10, 2F0.0, 10, F0.0, 10)
IF(NO+1) 0, 3, 0
READ(5, 8) NO, TO, DO, SGO, HO, CZASO
IF(KLUCZ) 0, 0, 32
IF(NO) 10, 0, 0
IF(NO-999) 0, 0, 10
IF(TO) 10, 0, 0
IF(TO-999) 0, 0, 10
IF(DO) 10, 0, 0
IF(DO-999) 0, 0, 10
IF(SGO) 10, 0, 0
IF(SGO-999) 0, 0, 10
IF(HO) 10, 0, 0
IF(HO-999) 0, 0, 10
D1 = DO * 1000
D1 = D1 * D1
D2 = HO * 100
D2 = D2 * D2
D1 = D1 - D2
IF(D1) 0, 0, 0
D1 = SQRT(D1)
5   CALL NEWXY(S1(5), S1(6), TO, D1, XX, YY)
N(I) = NO
T(I) = TO
D(I) = DO
SG(I) = SGO
H(I) = HO
CZAS(I) = CZASO
X(I) = XX
Y(I) = YY
I = I + 1
IF(I-165) 4, 4, 3
6   WRITE(10, 26)
26  FORMAT (30H RÓZNICA KWADRIODŁ I WYS UJEMNA)
GOTO 4
32  PAUSE 775
KLUCZ = 0
GOTO 31
10  WRITE(10, 25) NO
25  FORMAT (26H BLEDNY MELDUNEK O NR CELU , I4)
GOTO 4
3   I = I - 1
WRITE(1, 20)
20  FORMAT (/ / 85(1H-) / 2H I, 50X, 1HI, 45X, 1HI / 2H I,
A      1X, 35H MELDUNEK OKRESLAJACY POLOZENIE CELU,
A      1HI, 2X, 35H MELDUNEK OKRESLAJACY POLOZENIE CELU,
A      3X, 1HI / 2H I, 5X, 27H W G. WSPOLRZEDNYCH SIATKI TDH 4X 1HI 21X,
A      36H W G. WSPOLRZEDNYCH PROSTOKATNYCH (X,Y) 78X
A      1HI / 2H I, 35X, 1HI, 35X, 1HI / 85(1H-))
DO 21, I1 = 1, 1
WRITE(1, 22) N(I1), T(I1), D(I1), SG(I1), H(I1), CZAS(I1),
A      N(I1), X(I1), Y(I1), SG(I1), H(I1), CZAS(I1)
22  FORMAT (2H I, 2X, 16, 1X, 7F4.0, 1X, 7F5.0, 2X, 13, 1X,
A      F4.0, 2X, 16, 2H I, 2X, 14, 1X, F8.0, 1X, F8.0,
A      2X, 13, 1X, F4.0, 2X, 16, 2X, 2H I)
21  CONTINUE
WRITE(1, 23)
23  FORMAT (35(1H-))
RETURN
END

```

```

SUBROUTINE UBR1(V,PR2)
INTEGER I17,K(30),J6,V(3001),C(3001),I6,M1,N6,I2,
A A I1,X0,Y0,S,IH1,J,I5,I1,S1,I,AA(448),BB(27),
A A SYMB(29),ATC(25),AT(25),SG(165),CZAS(165),
REAL Z1,Z2,Z4,Z5,Z11,X(41),Y(41),Z,Z9,Z10,PAV
A A H2(25),XX(165),YY(165),HH(165),
A A A11(64),B11(162),D1(25),H1(25),D2(25)
REAL PRZ(4),Z22
COMMON /DRUK/AA,BB,A11,B11,SYMB,D2,D1,H1,H2,TC,ATPAV,
A JJ,IN,Z11,X,Y,Z1,Z2,Z4,Z5,K,J6,V,I6,M1,N6
COMMON /USOS/I17
COMMON /DRDR/MM1,XX,YY,SG,HH,CZAS,I1
Z1=PRZ(1)
Z2=PRZ(2)
Z4=PRZ(3)
Z5=PRZ(4)
DO 1 I2=1,I1
X(I2)=XX(I2)
Y(I2)=YY(I2)
I=MM1(I2)
IF(I)GOTO 10
CALL SS1(X(I),Y(I),Z11)
XX(I2)=X(I)
YY(I2)=Y(I)
Z=4*Z1
Z9=Y(1)+Z
Z10=Z+Z1
A=Z9+Z10
DO 10 IH1=1,I2
A=A-Z10
I6=0
Y(1)=A+Z1
DO 11 J=1,4
Y(1)=Y(1)-Z1
CALL SS5(X,Y,Z1,Z2,Z4,Z5,K,J6,V,I6,M1,N6)
IF(I7)GOTO 10
CONTINUE
I6=1
Y(1)=A+Z1
DO 12 J=1,4
Y(1)=Y(1)-Z1
I5=I/10
I1=10+I5
I1=I-I1
I=I5
Y(1)=I1
CALL SS4(X,Y,Z1,Z2,Z4,Z5,K,J6,V,I6,M1,N6)
CONTINUE
GO TO 15
CONTINUE
I6=1
CONTINUE
RETURN
END

```

11

12
10
13
1

```

SUBROUTINE CELL
INTEGER A11,A12,I,E,A(265),K(34),M(6),P(96),A07,K07,M07,D07,T7
A KLUCZ,ALE
A LOL(240),F,G,D(6),TABL(40),AA,BB(10),TO
REAL W(102),Z(180),W0,Z0
COMMON /DDDD/K,W0,W,Z
COMMON /UUUU/KLUCZ
WRITE(10,202)
202 FORMAT (26H PRZELIWSP. PROSTANA WSPMOPL)
PAUSE
1 CALL SWITCH(S,ALE)
ALE=ALE+1
F=-5
G=0
CALL DEFBUF(S,80,TABL)
203 WRITE(10,203)
FORMAT (7/108(1H-)/2H 1739X,1HI/25X,1HI,39X,1HI/2H 172X,
A 35HMELDUNEK OKRESLAJACY POLOZENIE CELU,2X,1HI
A 2X,19HUSPOLRZEDNE (FIPLA),4X,1HI,2X,
A 35HMELDUNEK OKRESLAJACY POLOZENIE CELU,2X,1HI/2H 171X,
A 36HWG.WSPOLRZEDNYCH PROSTOKATNYCH (X,Y),2X,1HI,
A 10X,5HCELU,11X,1HI,5X,
A 27HWG.WSPOLRZEDNYCH SIATKI OPL,7X,1HI/2HI,39X,1HI/
A 25X,1HI,39X,1HI/108(1H-))
74 CALL READT(TABL,ALE)
TO=1
READ(5,7) M(1),M(2),A0
IF(KLUCZ)0,0,2
7 FORMAT (3I0)
PO=5
IF(A0)0,0,0
IF(A0-1000)0,0,9
M(4)=A0
PO=5
GO TO 11
9 M(3)=A0
PO=4
11 READ(5,12) M(1),M(2),A0,(BB(I),I=1,TO)
IF(KLUCZ)0,0,2
TO=TO+1
12 FORMAT (12I0)
IF(BB(TO-1))13,0,0
IF(PO-6)0,18,18
M(PO)=BB(TO-1)
PO=PO+1
GO TO 11
8 M(6)=A0
GO TO 14
13 M(6)=BB(TO-1)
14 IF(PO-6)0,19,19
M(PO)=0
PO=PO+1
GO TO 14
16 READ(5,17) M(1),M(2),A0,(BB(I),I=1,TO)
IF(KLUCZ)0,0,2
TO=TO+1
17 FORMAT (12I0)
IF(BB(TO-1))172,18,18
17 DO 205 I=1,6
D(I)=M(I)
205 CONTINUE
D(6)=-D(6)
IF(M(6)+1)0,126,0
75 A11=M(2)/1000
A12=A11/10000
A12=A12+10000
A(3)=A11-A12
Z(2)=FLOAT(A(3))
IF(Z(6)-Z(2))0,0,138
IF(Z(2)-Z(1/4))0,0,138
Z(2)=Z(2)*1000
Z(1)=-1000+Z(6)
Z(1)=Z(1)+Z(2)
Z(1)=Z(1)/50000
A(3)=INT(Z(1))
PO=A(3)+7
PO=PO+5
A12=M(3)/1000000

```

```

A12=A12*1000000
A(2)=A(2)-A12
A(2)=A(2)-500000
Z(1)=FLOAT(A(2))
Z(1)=Z(1)/100000
A11=PO+1
Z(2)=M(2)+4(A11)
A(2)=M(2)
Z(3)=FLOAT(A(2))
Z(2)=Z(2)+Z(3)
Z(2)=Z(2)/1000
A11=PO+2
Z(3)=Z(A11)
A(2)=NINT(Z(3))
A(1)=A(2)
CALL PP1(A(1),A(2))
A(5)=A(2)
A11=PO+5
Z(3)=Z(A11)*Z(2)
A(5)=A(5)+A(2)
A11=PO+5
Z(3)=Z(A11)*Z(2)
A11=PO+5
Z(3)=Z(3)+Z(A11)
Z(3)=Z(3)*Z(1)
Z(3)=Z(3)*Z(1)
A(2)=NINT(Z(3))
A(5)=A(5)-A(2)
A11=A(5)/1000000
A12=A11/10
A(10)=A11-A12
A(10)=A(10)*6
A(10)=A(10)-5
A(10)=A(10)+3600
A11=PO+7
Z(3)=Z(A11)-Z(2)
A11=PO+6
Z(3)=Z(3)+Z(A11)
Z(3)=Z(3)*Z(1)
Z(3)=Z(3)+0.5
IF(Z(3))74,0,0
A(2)=NINT(Z(3))
A(10)=A(10)+A(2)
GOTO 75
Z(3)=ABS(Z(3))
A(2)=NINT(Z(3))
A(10)=A(10)-A(2)
74
A(3)=1
A0=26
PO=27
75
A(1)=K(A0)
CALL PP1(A(1),A(2))
A(6)=A(2)
A(1)=K(PO)
CALL PP1(A(1),A(2))
A(11)=A(2)
IF(A(3)-K(21))0,0,77
A(1)=K(22)
CALL PP1(A(1),A(2))
A(8)=A(2)
A(1)=K(23)
CALL PP1(A(1),A(2))
A(13)=A(2)
GOTO 77
A(1)=K(24)
CALL PP1(A(1),A(2))
A(8)=A(2)
A(1)=K(25)
CALL PP1(A(1),A(2))
A(13)=A(2)
77
A(7)=A(6)+A(8)
A(12)=A(11)+A(13)
IF(A(5)-A(6))79,0,0
IF(A(5)-A(7))0,72,72
A(2)=0
GOTO 80

```

74

75

76

77

78

```

77 A(2)=1
80 IF(A(2))139,0,81
IF(A(10)-A(11))82,0,0
IF(A(10)-A(12))0,82,82
A(2)=0
GOTO 83
82 A(2)=1
83 IF(A(2))139,84,0
81 IF(A(3)-4)0,140,140
A(3)=A(3)+1
A0=A0+2
P0=P0+2
GOTO 7
84 IF(A(3)-K(21))0,0,85
M(2)=K(1)+1000000
GOTO 86
85 M(2)=K(4)+1000000
86 P0=A(3)
P0=2+P0
A(3)=K(P0)*100000
M(2)=M(2)+A(3)
A(3)=4
CALL PP2(A(6),A(3))
A(3)=6
CALL PP5(A(5),A(13))
P0=7
A(1)=10
A(7)=A(6)+A(8)
IF(A(5)-A(6))87,0,0
IF(A(5)-A(7))0,87,87
A(2)=0
GOTO 88
87 A(2)=1
88 IF(A(2))139,89,0
IF(P0-A(1))0,139,139
P0=P0+1
A(6)=A(7)
GOTO 90
89 A(3)=K(P0)*10
P0=11
A(1)=16
91 A(12)=A(11)+A(13)
IF(A(10)-A(11))92,0,0
IF(A(10)-A(12))0,92,92
A(2)=0
GOTO 93
92 A(2)=1
93 IF(A(2))139,94,0
IF(P0-A(1))0,139,139
P0=P0+1
A(11)=A(12)
GOTO 91
94 A(3)=A(3)+K(P0)
A(3)=A(3)+1000
M(2)=M(2)+A(3)
A(3)=3
CALL PP2(A(6),A(3))
CALL PP3(A(5),A(13))
K0=0
P0=1
95 A(1)=3
96 A(7)=A(6)+A(8)
IF(A(5)-A(6))97,0,0
IF(A(5)-A(7))0,97,97
A(2)=0
GOTO 98
97 A(2)=1
98 IF(A(2))139,99,0
IF(P0-A(1))0,139,139
P0=P0+1
A(6)=A(7)
GOTO 96
99 A(3)=P0
P0=1
A(1)=3
102 A(12)=A(11)+A(13)
IF(A(10)-A(11))100,0,0
IF(A(10)-A(12))0,100,100

```

```

A(2)=0
GOTO 170
100 A(2)=1
170 IF(A(2))139,171,0
IF(P0-A(1))0,139,139
P0=P0+1
A(11)=A(12)
GOTO 172
171 IF(A(3))210,174,173
P0=8-P0
GOTO 177
173 IF(P0-2)0,175,176
P0=8
GOTO 177
175 P0=9
GOTO 177
176 P0=4
177 IF(R0)139,0,178
P0=100+P0
H(2)=H(2)+P0
A(3)=3
CALL PP2(A(8),A(3))
CALL PP3(A(5),A(13))
R0=1
GOTO 95
178 P0=P0+10
H(2)=H(2)+P0
A(3)=2
CALL PP2(A(8),A(3))
CALL PP3(A(5),A(13))
P0=1
A(1)=2
179 A(7)=A(6)+A(8)
IF(A(5)-A(6))180,0,0
IF(A(5)-A(7))0,180,180
A(2)=0
GOTO 181
180 A(2)=1
181 IF(A(2))139,182,0
IF(P0-A(1))0,139,139
P0=P0+1
A(6)=A(7)
GOTO 179
182 A(3)=P0
P0=1
A(1)=2
183 A(12)=A(11)+A(13)
IF(A(10)-A(11))184,0,0
IF(A(10)-A(12))0,184,184
A(2)=0
GOTO 185
184 A(2)=1
185 IF(A(2))139,186,0
IF(P0-A(1))0,139,139
P0=P0+1
A(11)=A(12)
GOTO 185
186 IF(A(3))1159,0,187
P0=5-P0
187 H(2)=H(2)+P0
H(3)=0
A(8)=A(7)
CALL PP4(A(8),A(6),A(7))
A(10)=A(8)
A(11)=A(7)
A(12)=A(8)
A(8)=A(5)
CALL PP4(A(8),A(6),A(7))
A(5)=A(6)
A(6)=A(7)
A(7)=A(8)
P=F+0
Q=G+0
T=1
H(6)=H(6)
DO 6 I=F,G
LOL(I)=R(T)
T=T+1

```

```

6      CONTINUE
      WRITE(1,201) (D(I),I=1,6),
201    A   (A(I),I=5,7), (A(I),I=10,12), (H(I),I=1,6)
      FORMAT (2H 1,1X,I4,1X,I8,1X,I8,1X,I5,1X,I3,1X,I6,
      A   1X,5H1 FI=,I2,1X,I2,1X,I2,1X,3H1A=,I2,
      A   1X,I2,1X,I2,1X,2H1 ,I4,1X,I8,1X,I8,1X,
      A   I3,1X,I3,1X,I6,1X,1HI72H I,39X,1HI,25X,
      A   1HI,39X,1HI)
      GO TO 72
138    WRITE(1,214) (D(I),I=1,6)
214    A   FORMAT (2H 1,1X,I4,1X,I8,1X,I8,1X,I5,1X,I3,1X,I6,1X,1HI,
      A   30HNSP.FI POZA OBSZAREM DZIALANIA/2H I,
      A   39X,1HI,25X,1HI,39X,1HI)
      GOTO 72
139    WRITE(1,103) (D(I),I=1,6)
103    A   FORMAT (2H 1,1X,I4,1X,I8,1X,I8,1X,I5,1X,I3,1X,I6,1X,1HI,
      A   12HPRZEKLAMANIE/2H I,39X,1HI,25X,1HI,39X,1HI)
      GOTO 72
140    WRITE(1,215) (D(I),I=1,6)
215    A   FORMAT (2H 1,1X,I4,1X,I8,1X,I8,1X,I5,1X,I3,1X,I6,1X,1HI,
      A   27HCEL POZA OBSZAREM DZIALANIA/2H I,
      A   39X,1HI,25X,1HI,39X,1HI)
      GOTO 72
2      PAUSE 776
      KLUCZ=0
      GOTO 1
126    WRITE(1,127)
127    FORMAT (108(1H-))
      RETURN
      END

```

```

SUBROUTINE AKT9
INTEGER ALE, I, TABL(20), II, KLUCZ, KK, KK, 708, S(16)
REAL XX, YY, S1(8)
COMMON /UUUU/KLUCZ
COMMON /UNUN/S, S1
CALL DEFBUF(5780, TABL)
CALL SWITCH(8, ALE)
ALE=ALE+1
DO 1 I=1, 20
CALL READT(TABL, ALE)
READ(S, 3) II
FORMAT(2I0)
IF(KLUCZ)0,0,20
IF(II+1)0,4,0
IF(II-1)0,5,0
IF(II-2)0,6,0
IF(II-3)0,7,0
DO 8 K=4,6
IF(II-K)0,7,0
CONTINUE
DO 10 K=7,20
IF(II-K)0,11,0
CONTINUE
WRITE(10, 12)
FORMAT(11HLEDNE DANE)
GOTO 13
READ(S, 3) II, KK
IF(KLUCZ)0,0,20
S(1)=K
GOTO 1
READ(S, 14) II, XX, YY
FORMAT(10, 2F02.0)
IF(KLUCZ)0,0,20
S1(1)=XX
S1(2)=YY
GOTO 1
READ(S, 3) II, KK
IF(KLUCZ)0,0,20
S(2)=K
GOTO 1
READ(S, 14) II, XX, YY
IF(KLUCZ)0,0,20
ROB=2+K-5
S1(ROB)=XX
S1(ROB+1)=YY
GOTO 1
READ(S, 3) II, KK
IF(KLUCZ)0,0,20
ROB=K-4
S(ROB)=K
GOTO 1
PAUSE 222
KLUCZ=0
GOTO 13
CONTINUE
RETURN
END

```

```

SUBROUTINE AKTUL
INTEGER A(448), W1, W2, L1, L2, K10, L1, TABL(20), L2, ROB, Z2, B(27)
INTEGER KLUCZ, ALE
REAL A1(64), W3, B1(102)
COMMON /DRUK/A, B, A1, B1
COMMON /UUUU/KLUCZ
CALL SWITCH(5, ALE)
10 ALE=ALE+1
CALL DEFBUF(5, 80, TABL)
6 DO 1 L=1, 30
READ(ALE, 2) W
IF(KLUCZ) 0, 0, 19
2 FORMAT(10)
IF(W+2) 0, 3, 0
K10=0
DO 4 Z=1, 43, 14
IF(W-A(Z)) 0, 5, 0
4 K10=K10+1
CONTINUE
WRITE(10, 40)
40 FORMAT(27H5 LEDNE DANE POPR LUB AKTUAL)
PAUSE
5 GOTO 6
DO 7 L=1, 10
CALL READT(TABL, ALE)
READ(5, 9) W1
IF(KLUCZ) 0, 0, 19
9 FORMAT(10)
IF(W1+1) 0, 1, 0
IF(W1-1) 0, 11, 0
IF(W1-2) 0, 12, 0
IF(W1-3) 0, 13, 0
IF(W1-4) 0, 14, 0
IF(W1-5) 0, 15, 0
IF(W1-6) 0, 16, 0
15 CONTINUE
WRITE(10, 40)
PAUSE
11 GOTO 6
READ(5, 17) W1, W2
IF(KLUCZ) 0, 0, 19
17 FORMAT(210)
A(Z)=W2
GOTO 7
12 READ(5, 17) W1, W2
IF(KLUCZ) 0, 0, 19
ROB=2+1
A(ROB)=W2
GOTO 7
13 READ(5, 18) W1, W3
IF(KLUCZ) 0, 0, 19
18 FORMAT(110, 10, 0)
ROB=12+K10
ROB=2-ROB
A1(ROB)=W3
GOTO 7
14 READ(5, 18) W1, W3
IF(KLUCZ) 0, 0, 19
ROB=12+K10
Z2=2+1
ROB=22-ROB
A1(ROB)=W3
GOTO 7
17 PAUSE 3.53
KLUCZ=0
GOTO 10
19 READ(5, 17) W1, W2
IF(KLUCZ) 0, 0, 19
ROB=L2+4
ROB=2+ROB
A(ROB)=W2
CONTINUE
CONTINUE
RETURN
END
7
1
3

```

```

SUBROUTINE AKT1
INTEGER TABL(20),L,W,K10,K11,L2,B(27),A(448)
A KLUCZ,ALE,RUB,WZ,L2,ROB1,L3,ROB2
L1,W1,L2,RUB,WZ,L2,ROB1,L3,ROB2
REAL B1(162),B3,A1(64),B5
COMMON /DRUK/A,B,A1,B1
COMMON /UUUU/KLUCZ
21 CALL SSWTCH(8,ALE)
ALE=ALE+1
6 CALL DEFBUF(5,80,TABL)
DO 1 L=1,9
READ(ALE,2) W
IF(KLUCZ)0,0,22
2 FORMAT(10)
IF(W+2)0,3,0
K11=0
K10=0
DO 4 2=1,25,3
IF(W-B(2))0,5,0
K10=K10+1
K11=K11+3
4 CONTINUE
40 WRITE(10,40)
FORMAT(27H5LEDNE DANE POPR LUB AKTUAL)
PAUSE
GOTO 6
5 DO 7 L1=1,22
CALL READT(TABL,ALE)
READ(S,9) W1
9 IF(KLUCZ)0,0,22
FORMAT(10)
IF(W1+1)0,1,0
IF(W1-1)0,11,0
IF(W1-2)0,12,0
IF(W1-15)0,13,0
DO 15 L2=4,12
IF(W1-L2)0,16,0
15 CONTINUE
WRITE(10,40)
PAUSE
GOTO 6
11 READ(S,17) W1,W2
IF(KLUCZ)0,0,22
17 FORMAT(210)
B(Z)=W2
GOTO 7
14 READ(S,17) W1,W2
ROB=2+1
B(ROB)=W2
GOTO 7
15 READ(S,17) W1,W2
IF(KLUCZ)0,0,22
ROB=2+2
B(ROB)=W2
GOTO 7
24 PAUSE 464
KLUCZ=0
GOTO 21
10 READ(S,18) W1,W3,W4
IF(KLUCZ)0,0,22
18 FORMAT(10,4F0,0)
20 ROB=K10+18
ROB2=2*L2
ROB=ROB+7
B1(ROB)=W3
ROB1=ROB+1
B1(ROB1)=W4
7 CONTINUE
1 CONTINUE
3 RETURN
END

```

```

SUBROUTINE AKT11
INTEGER TABL(20),L,A(814),W,L1,W1,W2,L2,Z,ROB7
AA(448),BB(27),SYMB(29),ZTC(25),AT(25),AV(25)
REAL A11(64),B11(162),D2(25),D1(25),H1(25),H2(25)
COMMON /ORUR/AA,BB,A11,B11,SYMB,D2,D1,H1,H2,ZTC,AT,AV
IT,IN,Z11,XX,YY,Z1,Z2,Z4,Z5
KK,J6,V,I6,RT,ROB
NH2WH,SYMC,NAZWA,KRYP,RRB,IDA
COMMON /UUUO/KLUCZ
CALL SWITCH(8,ALE)
ALE=ALE+1
CALL DEFBUF(5,80,TABL)
DO 2 L=1,22
READ(ALE,3) W
IF(KLUCZ)0,0,14
FORMAT(10)
IF(W+2)0,4,0
DO 3 2=1,778,37
IF(W-A(2))0,6,0
CONTINUE
WRITE(10,54)
FORMAT(21H5LEDNE DANE DO AKTUAL)
PAUSE
GOTO 1
DO 7 L1=1,30
CALL READT(TABL,ALE)
READ(5,5) W1
IF(KLUCZ)0,0,14
IF(W1+1)0,2,0
READ(5,6) W1,H2
IF(KLUCZ)0,0,14
FORMAT(210)
IF(W1-1)0,9,0
IF(W1)0,10,0
DO 11 L2=10,350,10
IF(W1-L2)0,12,0
CONTINUE
WRITE(10,54)
PAUSE
GOTO 1
ACZ)=W2
GOTO 7
ROB=W+10
ACROB)=W2
GO TO 7
PAUSE 555
KLUCZ=0
GOTO 13
ROB=L2/10
ROB=ROB+Z2
A(ROB)=R2
CONTINUE
CONTINUE
RETURN
END

```

15
1
3
5
54
6
21
8
11
9
10
14
12
7
2
4

```

SUBROUTINE AKT10
INTEGER L,W1,K10,Z,L1,W2,W3,ROB,A(120),U2,ZZ,TABL(20),
AA(448),DB(27),SYMB(29),TTC(25),TAT(25),AV(25),
NUZMU(297),SYMC(29),NIZWI(128),KRYP(36),
RBB(36),IIIPAAA(814),NN(10),NUZMU(209),BBB(9),KKK(32),
I,KLUCZ,ALE,II,IN,KE(30),J6,NV(3001),I6,M1,N6
REAL W4,A1(40),
A11(64),B11(162),D2(25),D1(25),H1(25),H2(25),
Z11,XX(41),YY(41),Z1,Z2,Z4,Z5
COMMON /ORU/ AA, BB, A11, B11, SYMB, D2, D1, H1, H2, TTC, TAT, AV,
II, IN, Z11, XX, YY, Z1, Z2, Z4, Z5,
KK, J6, V, I6, M1, N6,
NMZWW, SYMC, NIZWI, KRYP, RBB, III, PAAA, NN, NUZMU, BBB, KKK, I, A1

```

```

COMMON /UUUU/ KLUCZ
1 CALL SWITCH(8,PALE)
ALE=ALE+1
CALL DEFBUF(5780,TABL)
105 DO 100 L=1,20
READ(ALE,101) W1
IF(KLUCZ)0,0,2
101 FORMAT(10)
IF(W1+2)0,102,0
K10=0
DO 103 Z=1,115,6
IF(W1-A(Z))0,104,0
103 CONTINUE
WRITE(10,127)
127 FORMAT(28H6LEDNE DANE POPR LUB AKTUALN)
PAUSE
GOTO 105
104 DO 106 L1=1,8
CALL READT(TABL,ALE)
READ(5,107) W2
IF(KLUCZ)0,0,2
107 FORMAT(10)
IF(W2+1)0,100,0
IF(W2-5)0,109,0
IF(W2-6)0,116,0
READ(5,110) W2,W3
IF(KLUCZ)0,0,2
110 FORMAT(210)
IF(W2-1)0,111,0
IF(W2-2)0,112,0
IF(W2-3)0,113,0
IF(W2-4)0,114,0
IF(W2-7)0,117,0
IF(W2-8)0,118,0
WRITE(10,127)
PAUSE
GO TO 105
3 ROB=Z+4
A(ROB)=W3
4 GO TO 106
ROB=Z+5
A(ROB)=W3
GO TO 106
111 A(Z)=W3
GO TO 106
112 ROB=Z+1
A(ROB)=W3
GO TO 106
113 ROB=Z+2
A(ROB)=W3
GO TO 106
114 ROB=Z+3
A(ROB)=W3
GO TO 106
109 READ(5,117) W2,W4
IF(KLUCZ)0,0,2
117 FORMAT(10,F0.0)
ROB=4+10
ROB=2-ROB
A1(ROB)=W4
GO TO 106
2 PAUSE 666
KLUCZ=0

```

```
110 GOTO 1
    READ(S,121) W2,W4
141 IF(KLUCZ)0,0,2
    FORMAT(10,F0.0)
    ROB=4*10
    ZZ=Z+1
    ROB=ZZ-ROB
    A1(ROB)=W4
106 CONTINUE
100 CONTINUE
102 RETURN
END
```

C
C
C
C

```
SUBROUTINE NEWXY(XO, YO, PA, D, X, Y)
  WE: XO, YO - WSP. PKTU BAZOWEGO
      A      - AZYMUT [STOP]
      D      - ODLEGLOSC
  BY: X, Y   - WYZNACZONE WSPC
REAL XO, YO, A, D, X, Y, R, S
R = 17453.2252E6 * A
S = COS(R)
X = XO + S
S = SIN(R)
Y = YO + S
RETURN
END
```

C
C

```
SUBROUTINE ZANCZ(T1,T2,D)
INTEGER T1,T2,D,D1,D2,R,RO,S,T
D=100 ZAMIANA T1[GGMMSS] NA T2[SS]
D=60 ZAMIANA T1[SS] NA T2[GGMMSS]
D1=100-D
D2=D-D
R=T1
S=R/D2
RO=S*D2
R=R-RO
T=R/D
RO=T*D
T2=R+RO
R=S*D1
R=R+T
T2=R+T2
RETURN
END
```

```
SUBROUTINE OBLDQ(X,Y,D,Q,P,A,B)
REAL X,Y,D,Q,P,A,B
A=X*X
B=Y*Y
A=A+B
D=SQRT(A)
IF (D) 0,3,0
A=X/D
A=ASIN(A)
A=A/P
IF (Y) 0,0,1
B=270+A
GO TO 2
B=90-A
Q=B*P
RETURN
END
```

1
2
3

```

SUBROUTINE UDOAR
INTEGER I, J, K, L, DOAR(4800), WTD(30), R, R1, R2
COMMON /AHAL/ DOAR, WTD
DO 1 I=1, 4501, 300
  IF (DOAR(I)) 2, 0, 2
  DO 3 J=1, 30
    DOAR(R+I)=WTD(J)
3  CONTINUE
  GO TO 100
2  IF (DOAR(I)-WTD(1)) 1, 0, 1
  DO 4 K=0, 9
    R=50+K
    R1=R+21
    IF (DOAR(R1+I)) 0, 11, 0
    IF (DOAR(R1+1)-WTD(22)) 5, 0, 0
  DO 10 L=1, 30
    R1=L-1
    R1=R1+R
    R2=DOAR(R1+I)
    DOAR(R1+I)=WTD(L)
    WTD(L)=R2
10  CONTINUE
5  CONTINUE
  GO TO 100
11 DO 12 L=1, 30
    R1=L-1
    R1=R1+R
    DOAR(R1+I)=WTD(L)
12  CONTINUE
  GO TO 100
1  CONTINUE
WRITE(10, 101)
101 FORMAT(52HPRZEKRW ZAKRES TABL. DOAR = M>16)
100 RETURN
END

```

```

SUBROUTINE WDBDD(R,V,Q,EP,S,H,P,W,DB,DD)
INTEGER R,W,Z,DB,DD,R1,R2,E,
L K      BD1(440),BD2(440),BD3(420),BD4(420),BD5(378),BD6(204),
      BD7(486),BD8(486),BD9(486),BD10(250),BD11(240),BD12(264),
      BD13(286)
REAL V,Q,EP,S,H,HH,PP
COMMON /DRU/BD7,BD8,BD9,BD10,BD11,BD12,BD13,BD1,BD2,BD3,BD4,BD5,
L      BD6

```

```

Z=W
IF (R-2) 2,0,3
IF (H-0) 0,0,80
IF (V-100) 0,0,4
IF (EP-65) 0,0,80
IF (Q-90) 0,0,80
IF (P-36) 0,0,80

```

```

P=P/2
P=P+1
R1=RNINT(P)
ASSIGN 5 TO E
GO TO 61
R2=R2+40
DB=BD1(R2+R1)
IF (DB) 0,80,0
R2=R2+20
DD=BD1(R2+R1)

```

```

11 IF (Z-2) 7,0,0
25 W=2
GO TO 100
7 IF (H-0.5) 0,0,8
W=3
GO TO 100
8 W=1
GO TO 100

```

```

4 IF (V-20) 0,0,9
IF (EP-60) 0,0,80
IF (Q-70) 0,0,80
IF (P-38) 0,0,80
P=P/2
P=P+1
R1=RNINT(P)
ASSIGN 10 TO E
GO TO 61
R2=R2+40
DB=BD2(R2+R1)
IF (DB) 0,80,0
R2=R2+20
DD=BD2(R2+R1)

```

```

10 GO TO 11
9 IF (V-50) 0,0,12
IF (P-38) 0,0,80
IF (Z-2) 0,13,13
IF (EP-60) 0,0,80
IF (Q-55) 0,0,80
P=P/2
P=P+1
R1=RNINT(P)
ASSIGN 15 TO E
GO TO 62
R2=R2-1
R2=R2+42
DB=BD3(R2+R1)
IF (DB) 0,80,0
R2=R2+21
DD=BD3(R2+R1)

```

```

13 GO TO 7
IF (Q-55) 0,0,80
IF (EP-45) 0,0,80
IF (H-0.3) 80,0,0
P=P/2
P=P+1
R1=RNINT(P)
IF (H-0.3) 80,0,0
IF (H-2) 0,0,15
R2=0
GO TO 30
15 IF (H-7) 0,0,16
R2=1
GO TO 30

```

```

16  IF (H-11) 0,0,17
    GO TO 30
17  IF (H-15) 0,0,18
    GO TO 30
18  IF (H-19) 0,0,19
    GO TO 30
19  IF (H-19) 0,0,20
    GO TO 30
20  IF (H-25) 0,0,21
    GO TO 30
21  IF (H-27) 0,0,22
    GO TO 30
22  IF (H-30) 0,0,23
    GO TO 30
23  IF (H-32) 0,0,80
    RR2=R2+42
    DB=BD4(R2+R1)
    IF (DB) 0,80,0
    RR2=R2+21
    DB=BD4(R2+R1)
    GO TO 24
24  IF (V-700) 0,0,25
    IF (EP-60) 0,0,80
    IF (Q-55) 0,0,80
    IF (P-36) 0,0,80
    IF (P-6) 29,0,27
25  RR1=5
    GO TO 28
27  IF (P-9) 31,0,29
    GO TO 38
29  IF (P-14) 0,0,32
    P=P-4
    RR1=INT(P)
    GO TO 28
32  IF (P-21) 0,0,33
34  P=P/2
    RR1=INT(P)
    GO TO 28
33  IF (P-22) 34,0,34
    RR1=15
    GO TO 28
26  P=P/2
    P=P+1
    RR1=INT(P)
28  IF (H-0,5) 80,0,0
    ASSIGN 41 TO E
    GO TO 63
41  RR2=R2-2
    RR2=R2+42
    DB=BD5(R2+R1)
    IF (DB) 0,80,0
    RR2=R2+21
    DB=BD5(R2+R1)
    GO TO 0
25  IF (V-1000) 0,0,80
    IF (EP-60) 0,0,80
    IF (Q-50) 0,0,80
    IF (P-70) 0,0,80
    IF (P-2) 0,0,42
    RR1=1
    GO TO 50
42  IF (P-7) 0,0,43
    RR1=2
    GO TO 50
43  IF (P-11) 0,44,45
    RR1=3
    GO TO 50
44  RR1=4

```

```

45 GO TO 50
   IF (P-12) 44,44,0
   IF (P-12) 0,66,66
   R1#5
46 GO TO 50
   IF (P-18) 0,0,47
   R1#0
47 GO TO 50
   P=P/2
   P=P-3
   R1=NINT(P)
48 GO TO 50
   IF (H-13) 80,0,0
   IF (H-15) 0,0,48
   R2#0
48 GO TO 60
   IF (H-18) 0,0,49
   R2#1
49 GO TO 60
   IF (H-21) 0,0,51
   R2#2
51 GO TO 60
   IF (H-25) 0,0,52
   R2#3
52 GO TO 60
   IF (H-27) 0,0,53
   R2#4
53 GO TO 60
   IF (H-30) 0,0,80
   R2#5
60 DB#R2*34
   DB#BD6(R2+R1)
   IF (DB) 0,80,0
   R2#R2+17
   DB#BD6(R2+R1)
   GO TO 99
2 IF (V-1000) 0,0,80
   IF (P-52) 0,0,80
   IF (H-33) 0,0,80
   IF (Z-33) 54,54,0
   IF (Q-55) 0,0,54
   ASSIGN 56 TO E
56 GO TO 72
   DB#BD7(R2+R1)
   IF (DB) 0,80,0
   R2#R2+27
   DB#BD7(R2+R1)
54 GO TO 24
   IF (Q-70) 0,0,55
   ASSIGN 57 TO E
57 GO TO 72
   DB#BD8(R2+R1)
   IF (DB) 0,80,0
   R2#R2+27
   DB#BD8(R2+R1)
55 GO TO 7
   IF (Q-90) 0,0,80
   ASSIGN 58 TO E
58 GO TO 72
   DB#BD9(R2+R1)
   IF (DB) 0,80,0
   R2#R2+27
   DB#BD9(R2+R1)
3 GO TO 7
   IF (P-19) 0,0,80
   P=P
   IF (Z-2) 59,59,0
   IF (H-2) 0,0,59
   IF (P-11) 0,0,59
   IF (V-560) 0,0,56
   IF (Q-60) 0,0,59
   P=P/2
   P=P+1
   R1=NINT(P)
   ASSIGN 81 TO E
81 GO TO 73
   R2#R2+24
   DB#BD11(R2+R1)
   IF (DB) 0,52,0

```

```

R2=R2+14
DD=BD11(R2+R1)
GO TO 34
82 IF (V-300) 0,0,82
IF (Q-100) 0,0,80
IF (P-7) 0,0,83
P=PP
P=P/2
P=P+1
R1=NINT(P)
GO TO 34
83 P=PP+2
R1=NINT(P)
84 ASSIGN 85 TO E
GO TO 73
85 R2=R2+28
DB=BD10(R2+R1)
IF (DB) 0,80,0
R2=R2+14
DD=BD10(R2+R1)
90 IF (H-0.1) 0,0,8
M=4
GO TO 100
82 IF (V-500) 0,0,86
IF (Q-60) 0,0,80
IF (P-9) 0,0,87
P=PP
P=P/2
P=P+1
R1=NINT(P)
GO TO 85
87 P=PP+3
R1=NINT(P)
88 ASSIGN 89 TO E
GO TO 73
89 R2=R2+26
DB=BD13(R2+R1)
IF (DB) 0,80,0
R2=R2+15
DD=BD13(R2+R1)
GO TO 90
86 IF (V-700) 0,0,80
IF (Q-60) 0,0,80
IF (P-11) 0,0,91
P=PP
P=P/2
P=P+1
R1=NINT(P)
GO TO 92
91 P=PP+4
R1=NINT(P)
92 ASSIGN 93 TO E
GO TO 73
93 R2=R2+24
DB=BD12(R2+R1)
IF (DB) 0,80,0
R2=R2+12
DD=BD12(R2+R1)
GO TO 90
81 IF (H-0.3) 80,0,0
IF (H-1) 0,0,62
R2=0
GO TO E
82 IF (H-2) 0,0,63
R2=1
GO TO E
83 IF (H-7) 0,0,64
R2=2
GO TO E
84 IF (H-11) 0,0,65
R2=5
GO TO E
85 IF (H-15) 0,0,66
R2=4
GO TO E
86 IF (H-16) 0,0,67
R2=5
GO TO E

```

```

67 IF (H-14) 0,0,68
   R2#6
   GO TO E
68 IF (H-22) 0,0,69
   R2#7
   GO TO E
69 IF (H-23) 0,0,70
   R2#8
   GO TO E
70 IF (H-27) 0,0,71
   R2#9
   GO TO E
71 IF (H-30) 0,0,80
   R2#10
   GO TO E
72 P#P/2
   P#P+1
   R1#NINT(P)
   IF (H-063) 80,0,0
   HH#H/4
   R2#INT(HH)
   R2#R2*54
   GO TO E
73 IF (H-065) 80,0,74
   R2#0
   GO TO E
74 IF (H-065) 0,0,75
   R2#1
   GO TO E
75 IF (H-5) 0,0,76
   HH#H/2
   R2#INT(HH)
   GO TO E
76 IF (H-12) 0,0,77
   HH#H/2
   HH#HH-1
   R2#NINT(HH)
   GO TO E
77 IF (H-18) 0,0,80
   HH#H/2
   R2#NINT(HH)
   GO TO E
80 M#0
100 RETURN
   END

```



```

SUBROUTINE FF
INTEGER NO, M(33), NO, N(480), A0, A(177), CO, C(5280),
      I13, I14, N10(20), SS, NN, LL, PPR, T, TABL(20),
      I1, I2, I3, I4, I5, I6, I7, I8, I9, I10, I11, I12,
      DO, D(160), PO, P(354), F, K, LO, L1, L2, L3, IO,
      DO, DDD(16), I1, I1L, NNN, I15, PBUF, BUFT
INTEGER ID, ND(16), NC(160), WE(160), R LOR(16)
COMMON /UNUN/BLOR
COMMON /FORD/ID, RD, NCRWE
DATA BUF/4HX00/
DATA BUF1/4H1X00/
M(33)=1
L1=ID
I2=1
I3=10
DO 1 IO=1, L1
  M(IO)=ND(IO)
  RP=16+IO
  M(RP)=ND(IO)
  DO 2 I15=I2, I3
    N(I15)=NC(I15)
    D(I15)=WE(I15)
  CONTINUE
  I2=I2+10
  I3=I3+10
CONTINUE
IF(L1-1) 15, 18, 0
DO 16 IO=0, 16
  IO=L1-1
  I2=IO-1
  DO 17 I1=1, I2
    IF(R(16+I1)-M(16+IO)) 17, 17, 0
    LL=M(16+IO)
    M(16+IO)=M(16+I1)
    M(16+I1)=LL
  CONTINUE
  IF(IO-2) 0, 18, 0
CONTINUE
CO=0
DO=0
LL=10
DO 19 IO=1, LL
  CO=CO+1
  A(CO)=I1
  DO 20 NN=1, 10
    IF(D(IO)-32767) 0, 21, 15
    A(CO)=1
    GO TO 22
  IO=IO+1
CONTINUE
DO=DO+A(CO)
CONTINUE
DO 23 IO=1, 10
  RR=160+IO
  N(RR)=N(IO)
  IF(M(33)-1) 15, 0, 23
  RR=320+IO
  N(RR)=N(IO)
CONTINUE
I14=10
IF(L1-1) 15, 27, 0
L2=L1-1
I1=11
DO 25 NN=1, L2
  IO=I1
  DO 25 SS=1, 10
    DO 26 I9=1, I14
      IF(N(IO)-N(160+I9)) 0, 21, 0
    CONTINUE
    I14=I14+1
    RR=160+I14
    N(RR)=N(IO)
    IF(M(33)-1) 15, 0, 23
    RR=320+I14
    N(RR)=N(IO)
    IO=IO+1
  CONTINUE

```

```

26      I1=I1+10
27      CONTINUE
27      CO=I14
27      DO 28 I0=1, I14
27          IF(N(160+I0))1500,28
27          CO=CO-1
28      CONTINUE
28      IF(N(33)-1)1500,40
28      I0=I14
28      DO 29 I2=1, I0
28          I1=I0-I2
28          DO 30 I1=1, I2
28              IF(N(320+I1)-N(320+I0))30,3070
28                  LL=N(320+I0)
28                  N(320+I0)=N(320+I1)
28                  N(320+I1)=LL
30      CONTINUE
30      IF(I0-2)0,15370
30      I0=I0-1
30      CONTINUE
133     I12=L0
133     I13=L1
133     M0=CO+L1
133     DO 32 I0=1, M0
133         C(2720+I0)=0
32      CONTINUE
32      I1=I14-C0
32      DO 33 I0=1, I12
32          RR=320+I0
32          N(320+I0)=N(RR+I1)
35      CONTINUE
35      I4=0
35      LL=I0+L1
35      DO 35 I0=1, LL, 10
35          I4=I4+1
35          NN=1, I13
35          IF(M(I4)-N(10+NN))35,0735
35          I2=NN
35          GO TO 36
35      CONTINUE
36      I3=0
36      SS=I0+10
36      DO 37 I1=10, SS
36          IF(N(I1))15,37,0
36          DO 38 NN=1, I12
36              IF(N(I1)-N(320+NN))38,0,58
36              I3=NN
36              GOTO 39
38      CONTINUE
38      I3=0
39      I3=I3-1
39      I3=L1+I3
39      I3=I2+I3
39      C(2720+I3)=32767-M(I1)
37      CONTINUE
36      CONTINUE
40      IF(L1-1)15,0,46
40      IF(C0-1)15,0,46
40      DO 41 NN=1, I13
40          IF(N(I1)-N(10+NN))41,0,51
40          I2=NN
40          GO TO 42
41      CONTINUE
41      I2=0
42      DO 42 I0=1, I0
42          IF(N(I0))15,43,0
42          DO 44 NN=1, I12
42              IF(N(I0)-N(320+NN))44,0,44
42              I3=NN
42              GOTO 45
44      CONTINUE
44      I3=0
44      I3=I3-1
44      I3=I13+I3
44      I3=I2+I3
44      CALL LSHIC(I1, M(33), 15)
44      RR=2720+I3

```

```

C(2720+I3)=C(RR+I1)
GOTO 61
45 CONTINUE
46 L3=C0-00
IF(L3)0,48,48
M0=L1
N0=I14+1
CALL FF2(I1, M0, A, N)
A(M0+N0)=L3
CALL FFT(N0, M0, C, D, L1, N, I14)
NN=N0+M0
NN=NN+N0
NN=NN-1
DO 47 IO=N0, NN, NO
C(IO)=0
47 CONTINUE
GOTO 70
48 M0=L1+1
N0=I14+1
CALL FF2(I14, M0, A, N)
A(M0)=C0
A(M0+N0)=D0
CALL FFT(N0, M0, C, D, L1, N, I14)
I1=L1+N0
LL=N0+I1
LL=LL-1
DO 55 IO=I1, LL
C(I+IO)=32706
55 CONTINUE
LL=N0+M0
LL=LL+N0
LL=LL-1
DO 50 IO=N0, LL, NO
C(IO)=0
50 CONTINUE
GOTO 70
56 NN=N0+M0
DO 57 I1=1, NN, NO
SS=N0+I1
SS=SS-1
DO 58 IO=I1, SS
CALL RSHIC(C(IO), C(IO), 15)
58 CONTINUE
57 I2=1
I3=0
P0=0
DO 59 IO=1, L1
NN=IO+I2
NN=NN-1
DO 60 I1=I2, NN
IF(R(I1))13,0,01
60 CONTINUE
GO TO 130
61 P0=P0+1
P(P0)=I0
I4=I3
DO 62 SS=1, I13
IF(M(I0)-M(16+SS))62,0,62
IS=SS
GOTO 63
62 CONTINUE
IS=0
DO 64 I1=1, I14
I4=I4+1
IF(C(I4)-I) 64,0,64
DO 65 SS=1, I12
IF(M(160+I1)-M(320+SS))65,0,65
I6=SS
GOTO 66
65 CONTINUE
I6=0
I6=I6-1
I6=I13+I6
I6=I5+I6
CALL LSHIC(I5, M(35), 15)
C(2720+I6)=C(2720+I6)+I?
P0=P0-1

```

```

64          GOTO 150
130        CONTINUE
          I2=I2+10
          I3=I3+10
59        CONTINUE
          IF (BLOCK(10)-1) 67,0,67
          IF (PO) 75,67,0
          L1=PO
          I2=0
          NN=L1*10
          DO 68 I0=1, NN, 10
            I2=I2+1
            P0=P(I2)-1
            P0=P0+10
            I3=P(I2)
            H(I2)=H(I3)
            I3=0
            SS=I0+4
            DO 69 I1=I0, SS
              I3=I3+1
              RR=P0+I3
              H(I1)=N(RR)
              D(I1)=D(RR)
69        CONTINUE
68        CONTINUE
          H(33)=H(33)+1
          GOTO 18
70        I7=NO
          I8=1
          DO 71 I0=1, 2
            NN=NO*17
            DO 72 I1=1, NN, I7
              AO=32767
              SS=NO*18
              SS=SS+I1
              SS=SS-1
              DO 73 I0=I1, SS, I8
                IF (C(I0)-AO) 0, 73, 73
                AO=C(I0)
73        CONTINUE
            DO 74 I0=I1, SS, I8
              IF (C(I0)-32767) 0, 74, 74
              C(I0)=C(I0)-AO
74        CONTINUE
72        CONTINUE
          LL=NO
          NO=NO
          NO=LL
          LL=I8
          I8=I7
          I7=LL
71        CONTINUE
          I6=NO+NO
          I11=0
          DO 75 I1=1, I6
            CALL LSHIC(A(I1), A(I1), I5)
75        CONTINUE
          I2=0
          I7=0
          NN=NO*NO
          DO 76 I1=1, NN, NO
            I2=I2+1
            AO=A(I2)
            I4=NO
            SS=NO+11
            SS=SS-1
            DO 77 I0=I1, SS
              I4=I4+1
              IF (C(I0)) 77, 0, 77
              P0=A(I4)
              F=P0
              IF (AO-F) 0, 78, 78
              F=AO
              C(I0)=F
              AO=AO-F
              A(I4)=P0-F
78        CONTINUE
          A(I2)=AO
76        CONTINUE
          A(I2)=AO
77        CONTINUE
          A(I2)=AO

```

```

76      I7=I7+A0
CONTINUE
77      IF(I7)15,56,0
79      DO 80 I1=1,10
          P(I1)=-1
80      CONTINUE
          DO 81 I1=1,NO
              A0=A(I1)
              IF(A0)15,81,0
              P(I1)=0
              RR=177+I1
              P(RR)=A0
81      CONTINUE
82      I10=0
          DO 83 I9=1,NO
              IF(P(I9))83,0,0
              I10=I9-1
              I10=NO+10
              DO 84 I1=1,NO
                  IO=IO+1
                  CALL EXTRC(CO,P(IO),32767)
                  IF(CO)15,0,84
                  I2=NO+I1
                  IF(P(I2))0,15,84
                  P(I2)=I9
                  P(177+I2)=P(177+I9)
                  I10=I1
                  IF(A(I2))15,0,82
84      CONTINUE
85      CONTINUE
          IF(I10)15,92,0
          I2=80
          DO 85 I1=1,NO
              I2=I2+1
              P(I2)=P(I2)
              IF(P(I2))85,15,0
              I3=I1
              DO 86 I9=1,NO
                  IF(P(I9))0,88,85
                  CALL EXTRC(FPC(I3),BUF)
                  RR=177+I2
                  A0=P(RR)
                  IF(F)15,88,0
                  IF(A0-F)0,87,87
                  F=A0
                  P(I9)=I1
                  RR=177+I9
                  P(RR)=F
                  I3=I3+NO
86      CONTINUE
87      CONTINUE
          GOTO 82
          F=A(I2)
          RP=177+I9
          A0=P(RP)
          IF(A0-F)0,90,90
          F=A0
          I0=1
          I4=0
          A(I2)=A(I2)-F
          I9=90
          P(178)=I1
          I0=I0+1
          I4=I1-I4
          RP=19+I1
          I1=P(RP)
          I9=90-I9
          RR=177+I0
          P(RR)=I1
          IF(A(I1))15,91,0
          IF(I4)15,91,0
          A(I1)=A(I1)+F
          I7=I7-1
          DO 92 I1=2,10,2
              RR=177+I1
              I2=P(RR)-1
              I2=NO+I2
              RR=176+I1

```

```

      I2=P(RR)+I2
      C(I2)=C(I2)+F
92  CONTINUE
      IF(I0=0)15,94,0
      DO 93 I1=4,10,2
          RR=175+I1
          I2=P(RR)-1
          I2=N0*I2
          RR=176+I1
          I2=I2+P(RR)
          C(I2)=C(I2)-F
93  CONTINUE
94  I11=I11+1
      IF(I7)15,56,79
95  I2=0
      F=32767
      DO 96 I1=1,M0
          I3=I2
          IF(P(I1))98,0,0
          NN=N0+I0
          NN=NN-1
          DO 97 I0=N0,NN
              I3=I3+1
              IF(P(1+I0))0,15,97
              CALL EXTRC(C0,C(I3),32767)
              IF(C0-F)0,97,97
              F=C0
97  CONTINUE
98  I2=I2+M0
96  CONTINUE
      I3=0
      DO 99 I1=1,M0
          IF(P(I1))0,102,102
          NN=N0+I0
          NN=NN-1
          DO 100 I0=N0,NN
              I3=I3+1
              IF(P(1+I0))100,0,0
              CALL EXTRC(C0,C(I3),32767)
              IF(C0-32767)0,100,0
              C(I3)=C(I3)+F
100  CONTINUE
      GOTO 99
102  NN=N0+M0
      NN=NN-1
      DO 101 I0=M0,NN
          I3=I3+1
          IF(P(1+I0))0,15,101
          CALL EXTRC(C0,C(I3),32767)
          IF(C0-32767)0,101,0
          C(I3)=C(I3)+F
101  CONTINUE
99  CONTINUE
      GOTO 79
67  IF(I13=1)15,0,109
      I2=2721
      I15=0
      DO 131 I0=1,I12
          CALL EXTRC(DD,C(I2),32767)
          NN=320+I0
          NC(I0)=N(NN)
          IF(I12=1)199,0,199
          DD=1
          GOTO 136
199  CALL EXTRC(DD,C(I2),BUF1)
      IF(DD)15,136,0
      CALL PSHTC(DD,DD,15)
136  I15=I15+1
      WE(I15)=DD
139  I2=I2+I15
131  CONTINUE
      GOTO 129
109  NN=I13+16
      I2=2721
      I15=0
      DO 118 I0=1,I12
          NN=I15+I2
          NN=NN-1

```

```

T=0
DO 112 I1=I2,NN
CALL EXTRC(DD,C(I1),32(67))
T=T+1
DDD(T)=DD
119 CONTINUE
NNH=320+10
NC(I0)=N(NNH)
T=0
DO 124 I1=I2,NN
CALL EXTRC(DD,C(I1),BUF1)
T=T+1
IF(DD)12,12,0
CALL RSRIC(DD,DD,15)
125 DDD(T)=DD
124 CONTINUE
DO 3 I1=1,T
I13=I1+1
NC(I15)=DDD(I1)
3 CONTINUE
I2=I2+I13
118 CONTINUE
GOTO 129
12 PAUSE 444
GOTO 1
129 RETURN
END

```

```

SUBROUTINE SS1(X, Y, Z)
INTEGER Z
REAL X, Y, A(31)
Z=1000000
Z1=FLOAT(Z)
YF(X)=-Z1/1.1,0
YF(Y)=-Z1/1.1,0
A(12)=Y/Z1
C=INT(A(12))
A(6)=1
YF(Z11-C)2,5,0
A(6)=-1
A(11)=Y
A(13)=A(11)/636(558.5
A(14)=A(13)
A(15)=A(14)+A(14)
A(16)=A(15)+A(15)
A(17)=SIN(A(15))
A(18)=SIN(A(16))
A(19)=0.0001*A(17)
A(19)=2.51847+A(19)
A(19)=A(19)+A(13)
A(20)=0.000264*A(18)
A(20)=0.01*A(20)
A(19)=A(19)-A(20)
A(21)=A(19)-A(14)
A(21)=ABS(A(21))
A(14)=A(19)
YF(A(21)-0.000001)0,0,4
A(21)=A(19)
A(14)=COS(A(21))
A(15)=SIN(A(21))
A(16)=0.05256*A(14)
A(17)=A(16)+A(16)
A(16)=A(17)/76
A(16)=1-A(16)
A(16)=A(15)+A(16)
A(1)=0.05256*A(6)
A(22)=A(16)+A(1)
A(16)=A(15)+A(15)
A(16)=0.0669342*A(16)
A(16)=0.01*A(16)
A(16)=1-A(16)
A(16)=SQRT(A(16))
A(17)=A(1)+A(14)
A(17)=6578245+A(17)
A(17)=A(17)/7A(16)
A(16)=A(1)+A(14)
A(18)=A(16)+A(16)
A(18)=A(18)/76
A(19)=A(14)+A(14)
A(19)=0.067385*A(19)
A(19)=0.1*A(19)
A(19)=A(19)+1
A(20)=A(15)+7A(14)
A(21)=A(20)+A(20)
A(21)=A(21)+A(21)
A(19)=A(21)+A(19)
A(18)=A(19)+A(18)
A(18)=A(18)+1
A(23)=A(17)+A(18)
A(16)=A(15)+A(15)
A(16)=0.0669342*A(16)
A(16)=0.01*A(16)
A(16)=1-A(16)
A(24)=6556885+A(16)
A(16)=A(12)-C
A(16)=21+A(16)
A(25)=A(16)-500000
A(16)=A(23)+A(25)
A(17)=A(16)+A(23)
A(24)=A(24)+A(24)
A(17)=A(17)+7A(24)
A(17)=A(17)+1
A(26)=A(17)+A(16)
A(16)=A(22)+A(22)
A(17)=SIN(A(16))
A(18)=COS(A(16))

```



```

SUBROUTINE SSZ(X, Y, Z1, Z2, Z4, Z5, K, J6, V, I, I3, P, I6, M1, N6, KSK)
INTEGER I, I1, I2, I3, J6, V(5001), K(30), KSK
A REAL AA(448), BB(27), SYMB(29), P(41), I6, M1, N6
COMMON /ORU/ AA, BB, A11, B11, SYMB, D2
I1=I/10
I2=10*I1
I3=I-I2
V(1)=I2
Y(1)=Y(1)+Z1
IF(I1)1,0,1
CALL SS4(X, Y, Z1, Z2, Z4, Z5, K, J6, V, I6, M1, N6)
IF(J6)2,0,2
Y(1)=Y(1)-Z1
Y(1)=Y(1)-Z1
CALL SS4(X, Y, Z1, Z2, Z4, Z5, K, J6, V, I6, M1, N6)
GOTO 2
1 Y(1)=Y(1)+Z1
CALL SS4(X, Y, Z1, Z2, Z4, Z5, K, J6, V, I6, M1, N6)
Y(1)=Y(1)-Z1
IF(J6)0,3,0
V(1)=I1
CALL SS4(X, Y, Z1, Z2, Z4, Z5, K, J6, V, I6, M1, N6)
GOTO 2
3 Y(1)=Y(1)-Z1
Y(1)=Y(1)-Z1
CALL SS4(X, Y, Z1, Z2, Z4, Z5, K, J6, V, I6, M1, N6)
IF(J6)0,2,0
Y(1)=Y(1)-Z1
V(1)=I1
CALL SS4(X, Y, Z1, Z2, Z4, Z5, K, J6, V, I6, M1, N6)
2 RETURN
END

```

1
3
2

Y(1)=Y(1)+Z1
 CALL SS4(X, Y, Z1, Z2, Z4, Z5, K, J6, V, I6, M1, N6)
 Y(1)=Y(1)-Z1
 CALL SS4(X, Y, Z1, Z2, Z4, Z5, K, J6, V, I6, M1, N6)
 Y(1)=Y(1)-Z1
 CALL SS4(X, Y, Z1, Z2, Z4, Z5, K, J6, V, I6, M1, N6)
 Y(1)=Y(1)-Z1
 CALL SS4(X, Y, Z1, Z2, Z4, Z5, K, J6, V, I6, M1, N6)

```

SUBROUTINE SST(X,Y,P,R,K,V,A,B,T,F1,Z1,Z2,Z3,Z4,Z5,K,J6,W,Y6,M1,N6,T0)
INTEGER N,N1,Y,L,AT(41),I1,V(3001),IL,IF,N41,LE,P(41),TT:T0;
A X(30),J6,AA(448),BB(27),SYMB(29),I6,M1,N6
REAL A,B,X(41),Y(41),R(41),F,F1,Z29,Z10,Z1,Z2,Z4,Z5;
COMMON /DRUK/AA,BB,A11,B11,SYMB,U2
N1=0
DO 4 I=1,N
  IF(A-X(I+1))1,0,1
  IF(B-Y(I+1))0,2,0
  IL=I+1
1 L=P(IL)
  IF(C10
  X(I)=X(I+1)-A
  Y(I)=Y(I+1)-B
  X(I)=X(I)*X(I)
  Y(I)=Y(I)*Y(I)
  X(I)=X(I)+Y(I)
  Y(I)=SQRT(X(I))
  IF(X(I)-Y(I))0,2,2
  N1=N1+1
  T(N1+1)=I
2 CONTINUE
F=6.283185/F1
I=NINI(F)
F=-F1
DO 5 LL=1,I0
  F=F+F1
  X(I)=SIN(F)
  Y(I)=COS(F)
  X(I)=R(I)*X(I)
  Y(I)=R(I)*Y(I)
  X(I)=A+X(I)
  Y(I)=B+Y(I)
  IF(T(N1))0,4,0
  N1=N1+1
  DO 5 I=2,N1
    TI=T(I)
    Z9=X(TI)-X(TI+1)
    Z10=Y(TI)-Y(TI+1)
    Z9=Z9*Z9
    Z10=Z10*Z10
    Z9=Z9+Z10
    Z9=SQRT(Z9)
    Z9=Z9-0.1
    IF(Z9-R(TI+1))3,0,0
  CONTINUE
  V(I)=P(I)
3 CALL SSC(X,Y,Z1,Z2,Z4,Z5,K,J6,W,Y6,M1,N6)
CONTINUE
RETURN
END

```

1

2

5

4

3

```

SUBROUTINE SS4(Z1,Z2,Z3,Z4,Z5,A1,A2,B1,B2,KPJ6,V,I0,M1,N6,X,Y)
INTEGER I0,V(30),Y(1),X(1),K(30),J0,AA(40),BB(20),SYMB(20)
A REAL A,B,A1,B1,A2,B2,A3,Z1,Z2,F,F1,F2,X(41),Y(41),Z4,Z5
A COMMON /DRUG/AA,BB,A1,B1,SYMB,D2
A=0
F1=Z1
F2=Z2
IF(A1-A2)0,1,0
IF(B1-B2)0,2,0
A=A2-A1
B=B2-B1
A=A/B
A3=ABS(A)
IF(A3-1)0,0,3
IF(B1-B2)2,0,0
1 F1=-F1
2 X(1)=A1
F=A+F1
B=B2-B1
B=B/F1
B=ABS(B)
I=#NINI(B)
Y(1)=B1
DO 7 YY=1,I0
V(1)=SYMB(20)
CALL SS4(X,Y,Z1,Z2,Z4,Z5,KPJ6,V,I0,M1,N6)
X(1)=X(1)+F
Y(1)=Y(1)+F1
7 CONTINUE
GOTO 6
3 A=1/A
4 IF(A1-A2)5,0,0
5 F2=-F2
Y(1)=B1
F=A+F2
B=A2-A1
B=B/F2
B=ABS(B)
I=#NINI(B)
X(1)=A1
DO 8 XX=1,I0
V(1)=SYMB(20)
CALL SS4(X,Y,Z1,Z2,Z4,Z5,KPJ6,V,I0,M1,N6)
Y(1)=Y(1)+F
X(1)=X(1)+F2
8 CONTINUE
6 RETURN
END

```

```
SUBROUTINE PP1(A1,A2)
INTEGER A,B,A1,A2,A3
A=A1/10000
B=A/100
B=B*100
A3=A-B
A2=A3*600
A=A1/100
B=A/100
B=B*100
A3=A-B
A2=A2+60
B=A1/100
B=B*100
A3=A1-B
A2=A2+A3
RETURN
END
```

```
SUBROUTINE FP2(A6,A5)
INTEGER - A3,A3
REAL Z4,Z5
Z4=FLOAT(A8)
Z5=FLOAT(A3)
Z4=Z4/Z5
A3=INT(Z4)
RETURN
END
```

```
SUBROUTINE FP3(A3,A13)
INTEGER A3,A13
REAL Z4,Z5
Z4=FLOAT(A15)
Z5=FLOAT(A3)
Z6=Z4/Z5
A15=NINT(Z6)
RETURN
END
```

```
A7=Z4
RETURN
END
```

```
SUBROUTINE PD4(A8, A9, A7)
INTEGER A9, A8, A7, A6
A9 = A8 / 3000
A7 = A9 + 3000
A7 = A8 - A7
A6 = A9
A9 = A7 / 60
A8 = A9 * 60
A8 = A7 - A9
A7 = A9
RETURN
END
```

```
1000
1100
1200
1300
1400
1500
1600
1700
1800
1900
2000
2100
2200
2300
2400
2500
2600
2700
2800
2900
3000
3100
3200
3300
3400
3500
3600
3700
3800
3900
4000
4100
4200
4300
4400
4500
4600
4700
4800
4900
5000
5100
5200
5300
5400
5500
5600
5700
5800
5900
6000
6100
6200
6300
6400
6500
6600
6700
6800
6900
7000
7100
7200
7300
7400
7500
7600
7700
7800
7900
8000
8100
8200
8300
8400
8500
8600
8700
8800
8900
9000
9100
9200
9300
9400
9500
9600
9700
9800
9900
```

```

SUBROUTINE FF1(NO, MU, C, D, L1, N, I14)
  INTEGER NO, MU, C, D, L1, N, I14
  MM=NO*BU
  DO 1 I1=1, NN, NO
    SS=NO+I1
    SS=SS-1
    DO 2 IO=I1, SS
      C(IO)=32767
    CONTINUE
  CONTINUE
  DO 3 IO=1, 10
    C(IO)=D(IO)
  CONTINUE
  LO=NO
  I14=10
  IF(L1-1) 15, (NO)
  L2=L1-1
  MM=L2*10
  MM=MM+10
  DO 4 I1=11, MM, 10
    SS=10+I1
    SS=SS-1
    DO 5 IO=I1, SS
      DO 6 I9=1, I14
        IF(N(IO)-N(100+I9)) 6, 0, 76
        C(LO+I9)=D(IO)
        GOTO 5
      CONTINUE
      I14=I14+1
      C(LO+I14)=D(IO)
    CONTINUE
    LO=LO+NO
  CONTINUE
  GOTO 7
  PAUSE 3533
  RETURN
  END

```

```
SUBROUTINE PF2(I14,MO,TA,N)
  INTEGER I0,I14,A(177),MO,N(480)
DO 1 I0=1,I14
  A(MO+I0)=1
  IF(N(100+I0))15,0,1
  A(MO+I0)=0
1
CONTINUE
GOTO 2
PAUSE 4444
RETURN
END
```

1
15
2


```

SUBROUTINE SS4(X, Y, Z1, Z2, Z4, Z5, K, J0, V(16), M1, N6)
INTEGER I7, I6, J, J1, J2, J3, J4, J6, J5,
A      Y(3001), G(11), K(30), JJ, JJ1, JJ2, JJ3,
A      AA(443), BB(27), SYMB(29), M1, N6
REAL X(41), Y(41), Z1, Z2, Z4, Z5, Z1, A11(64), B11(162), D2(25)
COMMON /DRUK/AA, BB, A11, B11, SYMB, D2
COMMON /OSDS/I7
DATA S/4H-000,4H0-00,4H00-0,4H000-0,
A      4H0-0,4H0-0,4H0-0,4H0-0,
A      4H,4H,4H,4H

```

```

I7=0
J6=0
Z=Z5-X(1)
J=0
IF(Z)5,1,0
Z=Z/22
J=NINT(Z)
J=M1*J
IF(J-N6)0,5,5
1 Z=Y(1)-Z4
J1=0
IF(Z)5,4,0
Z=Z/21
Z=Z/4
J1=INT(Z)
IF(J1-M1)0,2,5
2 J=J+J1
JJ=J+2
S2=AINT(Z)
Z=Z-S2
Z=4*Z
J1=INT(Z)
IF(K(1))3,3,0
JJ1=J1+1
CALL EXTRC(J3,V(JJ),G(JJ1))
I7=1
DO 6 J4=8,10
JJ2=J4+1
CALL EXTRC(J5,G(JJ2),G(JJ1))
IF(J3-J5)0,3,0
6 CONTINUE
I7=0
GOTO 5
3 IF(I6)0,5,0
JJ3=J1+5
CALL EXTRC(V(JJ),V(JJ),G(JJ3))
J1=5-J1
IF(J1)0,4,0
DO 7 J2=1,J1
CALL LSHIC(V(1),V(1),6)
7 CONTINUE
4 V(2+J)=V(2+J)+V(1)
J6=1
5 RETURN
END

```


1 1 5 5 5 1 1 1 1 1 0 0 0 0 0 0
 0 0 0 0 0 0 0 0 0 0 0 0 0 2 2 0 0 0
 0 0 0 0 0 0 0 0 0 0 0 0 0 2 2 0 0 0
 11
 0 0 0 0 0 0 0 0 0 0 0 0 0 2 2 0 0 0
 0 0 0 0 0 0 0 0 0 0 0 0 0 2 2 0 0 0
 12
 0 0 0 0 0 0 0 0 0 0 0 0 0 2 2 0 0 0
 0 0 0 0 0 0 0 0 0 0 0 0 0 2 2 0 0 0
 13
 0 0 0 0 0 0 0 0 0 0 0 0 0 2 2 0 0 0
 0 0 0 0 0 0 0 0 0 0 0 0 0 2 2 0 0 0
 14
 0 0 0 0 0 0 0 0 0 1 1 2 2 2 1 1 1 1
 1 1 1 1 1 1 1 1 1 1 1 1 1 0 0 0 0
 15
 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
 16
 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
 0 1 1 1 2 2 2 2 2 2 1 1 1 1 0 0 0 0
 17
 0 1 1 1 1 0 0 0 0 0 0 0 1 1 1 1 1 1
 1 1 2 2 2 2 1 1 1 1 1 1 1 2 2 2 1 0
 18
 1 2 2 2 2 2 3 3 3 3 3 3 2 2 2 2 1 1
 1 1 1 1 2 2 2 2 3 3 3 3 2 2 2 2 1 1
 19
 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 1 2
 2 2 2 1 1 1 1 1 1 1 1 1 1 1 1 1 2 2
 20
 0 0 0 0 0 0 0 0 0 0 0 1 1 1 1 1 1 1
 1 1 0 0 0 0 1 1 1 1 0 0 0 0 0 0 0 0
 -1 0

1 2 3 4 5 6 7 8 9 0
 10 20 30 40 50 60 70 80 90
 17 18 1 2 3 4 1 2 3 4 5 6 7 8 9 0
 15 16 7 4 5 6 3 2 1 4 5 6 0 9 8 7

1 1 70 10 6050000 4358600 4 6
 2 1 70 10 6048500 4340000 6 10
 3 2 70 10 6048000 4339200 10 5
 4 3 60 5 6049200 4338100 9 7
 5 2 70 10 6033000 4348400 6 5
 6 4 80 20 6030000 4347000 7 5
 7 4 80 20 6050000 4341200 5 6
 8 6 70 10 6075000 3664500 3 3
 9 6 70 10 6077000 4336200 3 3
 10 4 70 10 6050000 3678000 3 3
 11 4 70 10 6056500 4323000 3 3
 12 7 60 5 6052400 4315700 1 8
 13 7 60 5 6050000 4320000 2 6
 14 4 70 10 6009000 4333000 3 4
 15 7 60 5 6057200 4339000 4 7
 16 5 60 5 6072100 4313200 1 4
 17 8 60 5 6028000 4354000 1 5
 18 8 60 5 6053500 3692500 1 4
 19 4 70 10 6029200 4328500 2 3
 20 7 60 5 6057100 3669200 1 6

621e

FORTRAN COMPILATION AT MINSK 32 DATE 11/02/75 TIME 10/40/75

TEC BY XRLP2-MINSK 32 DATE 12.02.1975 TIME 00.53

LIST
PROGRAM (XXXX)
INPUT 1=C90
INPUT 2=C90
OUTPUT 3=L90
OUTPUT 4=T90
OUTPUT 5=TV90

2 6059400 4313200 1 1
500000 211174 83010 340
130 12000 12000 1500 1400 -1
6156495 3615650 300 3
0 1 3 0
3 4 3 2
250 250 250 250
3 20 5 4
90 13000 11000 13000 15000 -1
6080000 3541450 500 10
0 3 1 0
3 4 2 1
500 400 400 400
10 25 25 25

EXTERNAL ERROR
CALL STRAPLEERR
CALL SOUTCHERR

CALL SOUTCHERR

ASSIGN 2 TO 0

READ (UNIT,IO) (A(1),A(2),A(3),A(4),A(5),A(6),A(7),A(8),A(9),A(10))

IF (A(1) .EQ. 0) GOTO 10

WRITE (UNIT,IO) (A(1),A(2),A(3),A(4),A(5),A(6),A(7),A(8),A(9),A(10))

CALL TESTERR(1) (10000000,99999999)

CALL TESTERR(2) (10000000,99999999)

CALL TESTERR(3) (10000000,99999999)

CALL TESTERR(4) (10000000,99999999)

CALL TESTERR(5) (10000000,99999999)

CALL TESTERR(6) (10000000,99999999)

IF (A(1) .EQ. 0) GOTO 10

ASSIGN 2 TO 0

READ (UNIT,IO) (A(1),A(2),A(3),A(4),A(5),A(6),A(7),A(8),A(9),A(10))

IF (A(1) .EQ. 0) GOTO 10

WRITE (UNIT,IO) (A(1),A(2),A(3),A(4),A(5),A(6),A(7),A(8),A(9),A(10))

CALL TESTERR(7) (10000000,99999999)

L 1

6211

```

LIST
PROGRAM (IKAR)
INPUT 1=CKO
INPUT 2=TR0
OUTPUT 3=LPO
OUTPUT 4=TP0
OUTPUT 5=TYU
    
```

LEADER

END

MASTER WRAB

INTEGER IN,OUT,ER

INTEGER SKALA,DT

REAL S1(8),PRT(2)

INTEGER ICEL,IRUB,K,IPN,CZYJ(3),T(3),L,NGRUP,J,VV70,R,R1,R2,S(16),

- CZAS,CZASK,NC(165),TC(165), GC(165),Z(27),G(27)

REAL POPAZ(6),X,Y,X1,Y1,X2,Y2,ROBR5,R4,R5,ASSTDESPA(3),HO(3),

- VO(3),XO(3),YO(3),XC(165),YC(165),BC(165),D(27),V(27),H(27)

COMMON /ERR/ ER

COMMON /UNUN/ S,S1,I,PRT,DT,XO,YO,VO,HO,V,H,IRUB,SKALA,CZAS,DT,A,

- Z,G,CZASK,CZYJ

COMMON /DROR/ NC,XC,YC, GC,HO,TC,ICEL

ER=0

EXTERNAL ERROR

CALL FTRAP(ERROR)

1 CALL SSWTCH(1,IN)

CALL SSWTCH(8,S(16))

ASSIGN 2 TO 0

2 READ (IN,500) PRT,CZAS,CZASK,DT,PS(2),IRUB

IF (ER) 99,0,99

WRITE(S,501) PRT,CZAS,CZASK,DT,PS(2),IRUB

CALL RTEST(PRT(1),1000000,0,9999999,0)

CALL RTEST(PRT(2),1000000,0,9999999,0)

CALL ITEST(CZAS,0,240000)

CALL ITEST(CZASK,1,240000)

CALL ITEST(DT,1,10000)

CALL ITEST(S(2),0,1)

CALL ITEST(IRUB,1,3)

IF (ER) 88,0,88

K=0

DO 9 I=1,IRUB

ASSIGN 2 TO 0

3 READ (IN,502) XO(I),YO(I),A(I),CZYJ(I),VO(I),HO(I),T(I)

IF (ER) 99,0,99

WRITE(S,503)XO(I),YO(I),A(I),CZYJ(I),VO(I),HO(I),T(I)

CALL RTEST(XO(I),1000000,0,9999999,0)

```
CALL RTEST(YO(I),1000000,10,9999999,0)
CALL RTEST(A(I),20,360,0)
CALL ITEST(CZYJ(I),0,1)
CALL RTEST(YO(I),100,10,1000,0)
CALL RTEST(HO(I),1,10,500,0)
CALL ITEST(T(I),0,9)
IF (ER) 88,0,88
```

```
T(I)=T(I)+6
IF (T(I)=K) 0,9,0
```

```
K=K+1
```

```
L=T(I)
```

```
ASSIGN 4 TO Q
```

```
4 READ(IN,504) (D(J),J=K,L)
```

```
IF (ER) 99,0,99
```

```
WRITE(2,503) (D(J),J=K,L)
```

```
DO 41 J=K,L
```

```
CALL RTEST(D(J),1000,0,1000000,0)
```

```
CONTINUE
```

```
IF (ER) 88,0,88
```

```
ASSIGN 5 TO Q
```

```
5 READ(IN,505) (Z(J),J=K,L)
```

```
IF (ER) 99,0,99
```

```
WRITE(2,507) (Z(J),J=K,L)
```

```
DO 51 J=K,L
```

```
CALL ITEST(Z(J),0,3)
```

```
CONTINUE
```

```
IF (ER) 88,0,88
```

```
ASSIGN 6 TO Q
```

```
6 READ(IN,506) (G(J),J=K,L)
```

```
IF (ER) 99,0,99
```

```
WRITE(2,508) (G(J),J=K,L)
```

```
DO 61 J=K,L
```

```
CALL ITEST(G(J),1,6)
```

```
CONTINUE
```

```
IF (ER) 88,0,88
```

```
ASSIGN 7 TO Q
```

```
7 READ(IN,509) (V(J),J=K,L)
```

```
IF (ER) 99,0,99
```

```
WRITE(2,509) (V(J),J=K,L)
```

```
DO 71 J=K,L
```

```
CALL RTEST(V(J),100,10,1000,0)
```

```
CONTINUE
```

```
IF (ER) 88,0,88
```

```
ASSIGN 8 TO Q
```

```
8 READ(IN,504) (H(J),J=K,L)
```

```
IF (ER) 99,0,99
```

```
WRITE(3,505) (H(J),J=K,L)
```

```
DO 81 J=K,L
```

```
CALL RTEST(H(J),1,10,500,0)
```

```
CONTINUE
```

```
IF (ER) 88,0,88
```

```
K=L
```

```
91 CONTINUE
```

```
WRITE(3,501) OUT
```

```
CALL SWITCH(2,OUT)
```

```
OUT=OUT+2
```

```

Q=7-OUT
CALL RELEASE(Q)
CALL ZAMCZ(UT,DT,100)
SKALA=-1
ASSIGN 10 10 Q
GO TO 12
10 READ(IN,504) (POPAZ(I),I=1,IRUB)
IF (ER) 99,07,99
CALL RTESI(POPAZ(I),70,36000)
101 CONTINUE
IF (ER) 88,0,88
DO 11 I=1,IRUB
101 IF (POPAZ(I)) 11,11,0
A(I)=POPAZ(I)
11 CONTINUE
12 CALL LOTNA
IF (ICEL) 100,100,0
N=0
DO 16 I=1,ICEL
IF (S(2)) 13,0,15
WRITE(S,500)
GO TO 100
300 FORMAT(50 H BRAK PODPRZAMOC(X,Y) NA (OPL) )
13 X=XC(I)-PRT(1)
Y=YC(I)-PRT(2)
X1=X*X
Y1=Y*Y
R3=X1+Y1
R3=SQRT(R3)
R5=X/R3
R3=R5/100000
R5=ASIN(R5)
R5=R5/17453,29252E-6
IF (Y) 0,0,14
R5=270,0+R5
14 R5=90,0-R5
141 IF (S(16)=2) 071570
R=GC(I)/100
R1=1
IF (N=20) 16290,142
CALL RUNOUT(OUT)
N=0
142 WRITE(OUT,510) NC(I),R5,R3,HC(I),R1,R
N=N+1
GO TO 16
15 WRITE(OUT,508) NC(I),R5,R3,GC(I),HC(I),PTC(I)
16 CONTINUE
IF (S(16)=2) 07161,0
I=-IC(1)
WRITE(OUT,509) I
101 WRITE(OUT,509) SKALA
CALL RUNOUT(OUT)
GO TO 10
88 PAUSE 20202

```

ER=0
GO TO Q

```
99 PAUSE 10101  
ER=0  
GO TO Q  
100 CALL #LEASE(IN)  
ENDFILE OUT  
CALL #SHOFF(1)  
CALL #SHOFF(2)  
CALL #LEASE(OUT)  
PAUSE (1)  
GO TO 1  
500 FORMAT(2F0.0,5I0)  
501 FORMAT(/////2F11.1,18I3I7I10)  
502 FORMAT(5F0.0,10,2F0.0,10)  
503 FORMAT(//2F11.1,FB,18I7,2F7.1,14/)  
504 FORMAT(YF0.0)  
505 FORMAT(YF8.1)  
506 FORMAT(YI0)  
507 FORMAT(YI8)  
508 FORMAT(15,F(0.2,FB.3,14,F7.2,17)  
509 FORMAT(18////)  
510 FORMAT(15,F(0.2,FB.3,F7.2,214)  
END
```

```
TRACE 0
SUBROUTINE ITEST(I,M,N)
INTEGER I,M,N,K
COMMON /ERR/ K
IF (M-I) 0,0,1
IF (I-N) 2,2,0
1 WRITE(3,3) I,M,N
   K=1
2 RETURN
3 FORMAT(20X,I13,5X,I10SPOZA PRZEDZIALU ( I13,I10I13,I10))
END
```

```
SUBROUTINE RTEST(X,A,B)
INTEGER K
REAL X,A,B
COMMON /ERR/ K
IF (A-X) 0,0,1
IF (X-B) 2,2,0
1 WRITE(2,3) X,A,B
   K=1
2 RETURN
3 FORMAT(20X,'F13.3',3X,'18BSPOZA PRZEDZIALU ('F13.3',1H',',',F13.3,1H')')
END
```

SUBROUTINE ERROR(I)

INTEGER I,K

COMMON /ERM/ K

K=-I

RETURN

END

COMMON /ERR/

DATA /ERR/

IF (ICEL) = 0

ICEL=0

K=0

DO 90 I=1,1000

ICEL=ICEL+1

X(I,ICEL)=X(I)

Y(I,ICEL)=Y(I)

Z(I,ICEL)=Z(I)

W(I,ICEL)=W(I)

V(I,ICEL)=V(I)

U(I,ICEL)=U(I)

T(I,ICEL)=T(I)

S(I,ICEL)=S(I)

R(I,ICEL)=R(I)

Q(I,ICEL)=Q(I)

P(I,ICEL)=P(I)

O(I,ICEL)=O(I)

N(I,ICEL)=N(I)

M(I,ICEL)=M(I)

L(I,ICEL)=L(I)

K(I,ICEL)=K(I)

J(I,ICEL)=J(I)

I(I,ICEL)=I(I)

H(I,ICEL)=H(I)

G(I,ICEL)=G(I)

F(I,ICEL)=F(I)

E(I,ICEL)=E(I)

D(I,ICEL)=D(I)

C(I,ICEL)=C(I)

B(I,ICEL)=B(I)

A(I,ICEL)=A(I)

ICEL=ICEL+1

ICEL=ICEL+1

ICEL=ICEL+1

ICEL=ICEL+1

ICEL=ICEL+1

ICEL=ICEL+1

ICEL=ICEL+1

ICEL=ICEL+1

ICEL=ICEL+1

ICEL=ICEL+1

ICEL=ICEL+1

ICEL=ICEL+1

ICEL=ICEL+1

ICEL=ICEL+1

ICEL=ICEL+1

ICEL=ICEL+1

ICEL=ICEL+1

ICEL=ICEL+1

ICEL=ICEL+1

ICEL=ICEL+1

```

SUBROUTINE LOTNA
INTEGER SKALA,DT
REAL S1(8),PRT(2)
INTEGER ICEL,IRUB,K,I,N,CZYJ(3),T(3),L,NGRUP,J,VV,Q,R1,R2,S(16)
- CZAS,CZASK,NC(165),TC(165),GC(165),Z(27),G(27)
REAL POPAZ(9),X,Y,X1,Y1,X2,Y2,ROB,R3,R4,R5,AS,DESM(3),HO(3)
- VO(3),XO(3),YO(3),XC(165),YC(165),HC(165),D(27),V(27),H(27)
COMMON /UNUR/ S,S1,I,PRT,D,XO,YO,VO,HO,V,H,IRUB,SKALA,CZAS,DT,PA,
- Z,G,CZASK,CZYJ
COMMON /DRDR/ NC,XC,YC,GC,HC,TC,ICEL
DATA POPAZ/0,-90,,-45,3,90,/,
IF (ICEL) 0,0,100
ICEL=0
K=0
DO 90 I=1,IRUB
ICEL=ICEL+1
XC(ICEL)=XO(I)
YC(ICEL)=YO(I)
GC(ICEL)=I
HC(ICEL)=HO(I)
N=10+CZYJ(I)
N=N+I
N=100*N
NC(ICEL)=N+1
TC(ICEL)=CZAS
AS = A(I)+POPAZ(4)
L = I(I)-K
IF (L) 90,90,0
DES = 0
NGRUP = 0
DO 80 J=1,L
VV = K+J
DES=DES+D(VV)
R1=Z(VV) *100
R1=R1+1
R2=G(VV)
R3=H(VV)
CALL NEWXY(XO(I),YO(I),AS,DES,X,Y)
ICEL = ICEL+1
XC(ICEL)=X
YC(ICEL)=Y
GC(ICEL)=R1
HC(ICEL)=R3
NGRUP = NGRUP+10
VV = NGRUP + N
TC(ICEL)=CZAS
NC(ICEL)=VV+1
IF (R2-1) 80,80,0
R5 = 5000
R4 = AS
DO 70 Q=2,R2
R4 = R4+POPAZ(Q)
ICEL=ICEL+1
CALL NEWXY(X,Y,R4,R5,XC(ICEL),YC(ICEL))
NC(ICEL)=VV+Q
GC(ICEL)=R1

```

```

      HC(ICEL)=R3
      TC(ICEL)=CZAS
      R5=4000
70     CONTINUE
80     CONTINUE
      K=T(I)
90     CONTINUE
      CALL ZAMCZ(CZAS,K,100)
      CALL ZAMCZ(CZASK,L,100)
      K=K+L
      CALL ZAMCZ(S,CZASK,60)
      RETURN
100    CALL ZAMCZ(CZAS,K,100)
      K=K+DT
      CALL ZAMCZ(CZASK,L,100)
      IF (K=L) 0,0,200
      CALL ZAMCZ(S,CZAS,60)
      R5=FLOAT(DT)
      DO 190 I=1,ICEL
          K=HC(I)
          L=K/1000
          Q=1000*L
          K=K-Q
          R=K/100
          N=100*R
          M=K-N
          M=M/10
          L=0
          IF (P-2) 110,0,0
          L=T(P-1)
110    IF (M) 0,0,120
          ROB=V(R)
          GOTO 130
120    ROB=V(L+N)
130    ROB= R5*ROB
          CALL NEWXY(XC(I),YC(I),JA(R),ROB,XC(I),YC(I))
          TC(I)=CZAS
190    CONTINUE
      RETURN
200    ICEL = -ICEL
      RETURN
      END

```

```
SUBROUTINE NEWXY(X0,Y0,A,D,X,Y)
  WE: X0,Y0 - WSP. PKTU BAZOWEGO
       A    - AZYMUT [STOP]
       D    - ODLEGLOSC
  WY: X,Y   - WYZNACZONE WSP.
REAL X0,Y0,A,D,X,Y,R,S
R = 17493.029252E86 * A
S=COS(R)
S=D*S
X=X0+S
S=SIN(R)
S=S*D
Y=Y0+S
RETURN
END
```

```
SUBROUTINE ZAMCZ(T1,T2,D)
INTEGER T1,T2,D,D1,D2,R,R0,S,T
D=100 ZAMIANA T1[GGMMSS] NA T2[S]
D=60 ZAMIANA T1[S] NA T2[GGMMSS]
D1=160-D
D2=D*D
R=T1
S=R/D2
R0=S*D2
R=R-R0
T=R/D
R0=T*D
T2=R-R0
R=S*D1
R=R+T
T2=R+T2
RETURN
END
```

CZIII

5600000.0 3490000.0 121015 500 40 1 2

5720350.0 3480220.0 16000 1 400.0 200.0 2

3500.0 4000.0
0 1
2 3
350.0 450.0
100.0 150.0

5700250.0 3500180.0 200.0 0 300.0 50.0 1

6000.0
2
5
500.0
70.0

1101	355.35	120.727	1	200.00	121015
1111	353.74	119.846	1	100.00	121015
1112	354.33	114.997	1	100.00	121015
1121	351.87	118.961	101	150.00	121015
1122	352.38	114.073	101	150.00	121015
1123	353.51	116.823	101	150.00	121015
201	5.80	100.769	1	50.00	121015
211	2.54	102.603	201	70.00	121015
212	1.66	97.643	201	70.00	121015
213	3.61	96.874	201	70.00	121015
214	0.52	100.619	201	70.00	121015
215	1.54	105.966	201	70.00	121015

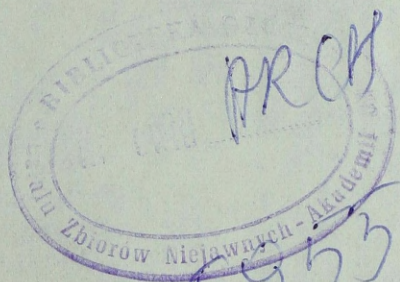
-1

1101	357.66	105.383	1	200.00	121055
1111	355.53	106.300	1	100.00	121055
1112	356.29	101.492	1	100.00	121055
1121	353.96	101.413	101	150.00	121055
1122	354.68	96.562	101	150.00	121055
1123	355.94	99.410	101	150.00	121055
201	3.91	89.181	1	50.00	121055
211	358.42	83.540	201	70.00	121055
212	357.09	78.912	201	70.00	121055
213	359.56	79.883	201	70.00	121055
214	355.86	82.032	201	70.00	121055
215	357.38	87.223	201	70.00	121055

-1

~~TAJNE~~ 0267/DW egz. r
du. 14.02.75v.

Hydrokomando nr 5 egz.
Egz. nr 1-Bibl. Ośrodka Oblicz.
Egz. nr 2-5 Bibl. of. Odob.
Zakonia Specjalnych
uk. ptk. kulturalnej



045953

C216

TEO BY XRLP2-MINSK 32 DATE 12.02.1975 TIME 00.50

500000 6005730 3520250 1000000 5956500 3488020 6059400 4313200 20 90 8 4 1 1 1 1 1 1 1 0 0 0

1 1 LEW
6077000 4330600 41 7 1140 0 0 0 0 0 0 0 0 1316
2 1 TYGRYS
6057100 4358600 20 7 1150 0 0 0 0 0 0 0 0 1316
3 1 WILK
6063950 3637050 22 10 1160 0 0 0 0 0 0 0 0 1316
4 1 LAMPART
6077950 3677900 22 10 1160 0 0 0 0 0 0 0 0 1316
5 1 LIS
6040050 3693050 58 6 1160 0 0 0 0 0 0 0 0 1316
6 1 PIES
6021550 4355200 1 6 1160 0 0 0 0 0 0 0 0 1316
7 1 BORSUK
6022800 4328500 22 10 1160 0 0 0 0 0 0 0 0 1316
8 1 DELFIN
6073600 3660800 22 5 1150 0 0 0 0 0 0 0 0 1316
9 1 SZOP
6082200 4318350 17 10 1160 0 0 0 0 0 0 0 0 1316
10 1 SZAKAL
6051100 3670400 60 6 1150 0 0 0 0 0 0 0 0 1316
11 3 SZPAK
6063100 4354200 18 7 1170 0 0 0 0 0 0 0 0 1316
12 3 WROHA
6073000 4340600 12 7 1170 0 0 0 0 0 0 0 0 1318
13 3 SROKA
6067800 4348400 1 7 1170 0 0 0 0 0 0 0 0 1318
14 3 KRUK
6076850 3692150 42 8 1180 0 0 0 0 0 0 0 0 1316
15 3 GAWRON
6069300 3671850 62 8 1190 0 0 0 0 0 0 0 0 1316
16 3 ORZEL
6059400 3656600 79 8 1160 0 0 0 0 0 0 0 0 1318
17 2 SZCZUPAK
6063050 3686100 100 4 1150 0 0 0 0 0 0 0 0 1316
18 2 DORSZ
6060700 4322400 101 4 1140 0 0 0 0 0 0 0 0 1316
19 2 SUM
6051850 4341200 69 5 1120 0 0 0 0 0 0 0 0 1316
20 2 KARP
6037100 4338400 123 5 1170 0 0 0 0 0 0 0 0 1316
21 21 BRATEK
6065150 3677200 100 10 0 0 0 0 0 0 0 0 0 1000
22 22 TULIPAN
6045400 3660200 92 8 0 0 0 0 0 0 0 0 0 0 1000

23 23 GOZDZIK
 6030200 3677050 187 4 0 0 0 0 0 0 0 0 0 1000
 24 24 BEZ
 6050800 4313400 114 10 0 0 0 0 0 0 0 0 0 1000
 25 13 ANTEHA
 6059400 4313200 118 10 0 0 0 0 0 0 0 0 0 1000
 26 27 RABA
 6092500 3664000 500 10 0 0 0 0 0 0 0 0 0 1000
 27 27 DUNAJEC
 6095400 4318200 400 8 0 0 0 0 0 0 0 0 0 1000
 28 27 SAN
 6077900 4352700 500 5 0 0 0 0 0 0 0 0 0 1000
 29 27 BANDERA
 6059400 4315700 118 10 0 0 0 0 0 0 0 0 0 1000
 -1 0

1 25 RABA
 6092500 3664000 6090600 3649400 6096800 3663800 6000400 3673200
 6094000 3676800 6089500 3667050 6083650 3652600 0 0 0 0 1000
 2 25 DUNAJEC
 6095400 4318200 6001800 3685600 6098600 4319200 6095400 4334300
 6088600 4331800 6092000 4316400 6093800 3683800 0 0 0 0 1000
 3 25 SAN
 6077900 4352700 6098000 4344400 6081700 4355900 6069200 4370000
 6068700 4359850 6075200 4349600 6087750 4337400 0 0 0 0 1000
 4 25 TOPOLA
 6044000 3654200 6061800 3643200 6044600 3643200 6030000 3643200 0 0 0 0 0 0 0 0 0 0 0 0 1000
 -1 0

1
 0 0 0 0 0 0 0 0 0 0 0 0 0 0 2 0 0 1 1
 2 2 3 3 2 2 2 3 2 1 0 0 0 0 0 0 0 1 1
 2
 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
 3
 0 0 0 0 0 0 1 2 3 2 2 2 2 2 2 2 2 2
 1 1 1 1 0 0 0 0 0 0 0 0 0 0 0 0 0 0
 4
 0 0 0 0 0 0 0 2 2 1 1 1 1 1 1 1 1 1
 0 0 0 0 1 1 0 0 0 0 0 0 0 0 0 0 0 0
 5
 3 3 2 2 2 2 2 2 2 2 2 2 2 3 3 4 4 3
 3 3 2 2 2 2 1 1 1 1 1 1 1 2 2 3 3 3
 6
 2 2 2 2 2 1 0 0 0 0 0 0 0 0 0 0 0 0
 0 0 0 1 1 1 1 1 1 1 1 2 2 2 2 2 2 2
 7
 0 0 0 0 0 0 0 0 0 0 0 0 1 1 1 2 2 2
 2 2 1 1 1 1 1 1 0 0 0 0 0 0 0 0 0 0
 8
 0 0 0 0 0 0 0 1 2 3 2 1 1 0 0 0 0 0
 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
 9
 0 0 0 0 0 0 0 0 2 2 1 0 0 0 0 0 0 0
 0 1 2 2 1 1 0 0 0 0 0 0 0 0 0 0 0 0
 10
 0 0 0 1 2 2 2 3 3 4 3 3 2 2 1 1 1 1
 1 1 2 2 2 1 1 1 1 1 1 0 0 0 0 0 0 0

