

Jim. B. B.
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```
*****
; ** SPECTRUM MIDNIGHT RESISTANCE ALL IN ONE SOURCE **
*****
```

```
OCMD "#SP 7BE0"
OCMD "K0"
```

```
*****
```

```
MUSICALSO EQU 0
```

```
IFLB MUSICALSO=1
STARTLEV EQU 0
ENDF
```

```
IFLB MUSICALSO=0
STARTLEV EQU 1
AUTO EQU 0
ENDF
```

```
IFLB STARTLEV=1
OCMD 'L"TITLESCR", $4000'
ENDF
```

```
IFLB MUSICALSO=0
```

```
STARTLIVES EQU 6-1
```

```
INFLIF EQU 0 ;255
INFAMM EQU 0 ;255
WEPSSEL EQU 0 ;255
SPACETOKILL EQU 0 ;255
```

```
*****
; ** MEMORY MAP **
*****
```

```
BACKSCR EQU $5B00 ; REAL COPYS
BACKATR EQU BACKSCR+($100*16)
BACKEND EQU BACKATR+($20*16)
BACKLEN EQU BACKEND-BACKSCR
```

```
BACKSCR2 EQU BACKEND ; BACK SCREEN (COPY TO BACKSCR)
BACKATR2 EQU BACKSCR2+($D0*16)
BACKEND2 EQU BACKATR2+($1A*16)
BACKLEN2 EQU BACKEND2-BACKSCR2
```

```
MENUSTART EQU $7000 ; MENU ROUTINES + CHEAT MODE ROUTINE
THESTACK EQU $7BE0
CODE EQU $7BE0
```

```
MIRPAGE EQU $FD00 ; FD00 - FFFF
INTPAGE EQU $FE00 ; FE00 - FFFF
PAGE0 EQU $FF01 ; FF01 - FFFF
INTJP EQU $FFF4 ; FFF4 - FFFF
```

```
MUSRESETSOUND EQU $E000
MUSDOMUSIC EQU $E003
MUSINITTUNE EQU $E006
```

```
*****
; ** EQUATES **
*****
```

```
;PRHEX8 EQU 5
;PRHEX16 EQU 6
PRKEY EQU 7
PRCLS EQU 12
PRFONT EQU 14
PRMULTY EQU 15
PRINK EQU 16
PRSIZE EQU 17
PRGAMECLS EQU 18
PRPAUSE EQU 19
PRINK2 EQU 20
PRAT EQU 22
PREOF EQU 255
```

```
KEYB EQU 0
KEMP EQU 1
```

```

FACE      EQU 2
CURS      EQU 3
CONT      EQU FACE

POKE      EQU $80          ; POKE ADDRESS,VALUE ( MAP DATA )

HIGHTUNE  EQU 9

```

```

;*****

```

```

NOBUL     EQU 32
BULX     EQU 0
BULY     EQU 1
BULP     EQU 2
BULT     EQU 3
BULLEN   EQU 4

```

```

NOEXP     EQU 8
EXPX     EQU 0
EXPY     EQU 1
EXPP     EQU 2
EXPLEN   EQU 3

```

```

NOFLAMES  EQU 10

```

```

NOBAD     EQU 12
XPOS     EQU 0
YPOS     EQU 1
TYPE     EQU 2
PHASE     EQU 3
ACTION    EQU 4
COUNT    EQU 5
TEMP      EQU 6
BADLEN    EQU 7

```

```

JUMPBIT   EQU 0
KEYBIT    EQU 1

```

```

JUMP      EQU 1
KEY       EQU 2

```

```

FIN       EQU 255

```

```

;*****
;
;** PAGE 0 DATA **
;*****

```

```

ORG PAGE0

```

```

YBOUNCE   DBH FF000100

```

```

INFLIVES  DB INFLIF
INFAMMO   DB INFAMM
WEPSELECT DB WEPSEL
SPACEBARHEAT DB SPACETOKILL

```

```

SCORETEXT DB PRAT,21,20,PRSIZE
INC D:NOP
DB PRINK,$45,PRINK2,$47
SCORE     DB "00000000",PRSIZE,0,PREOF

```

```

PD        EQU 8
XADDS     DB 0+00,0+PD,0+PD,0+PD,0+00,0-PD,0-PD,0-PD
YADDS     DB 0-PD,0-PD,0+00,0+PD,0+PD,0+PD,0+00,0-PD

```

```

V         EQU 4
W         EQU V*2
XADS      DB 00,+V,+W,+W,+W,+W,+W,+V,00,-V,-W,-W,-W,-W,-V
YADS      DB -W,-W,-W,-V,00,+V,+W,+W,+W,+W,+W,+V,00,-V,-W,-W

```

```

JADDS     DBH 0008000000000000
          DBH F800080008000800

```

```

DAMAGETAB DB 01,01,03,02,00,06,03,03
          DB 01,02,06,04,00,06,03,03
          DB 02,01

```

```

NORET     EQU 0
LOSELIFE  EQU 1
NXTLEV    EQU 2

```



```
;BREAK      EQU 3

RETMODE     DB   NORET

RETMODES    DW   GAMEOVER
            DW   NEXTLEVEL
;           DW   TESTLOADLEV1

BADDAT      DS   NOBAD*BADLEN,0

FLAMEDIR    DS   NOFLAMES,2
FLAMEXYS    DS   NOFLAMES*2,0
```

PAGEEND

```
*****
;
** MAIN CODE      **
*****
```

```
                ORG CODE
                ENTR

START           CALL SETUPPAGES

REENTRY        LD   SP,THESTACK:CALL GOMENU
INTROLOOP      CALL HIGHSCORES:CALL GAMECLS

                LD   HL,0:LD   (AMMOLEFT+1),HL:LD   (PRTBARRIER+1),HL
                XOR  A:LD   (BACKLEFT+1),A:LD   (KEYSCOLLECTED+1),A
                LD   (SAVEDPEOPLE+1),A:LD   (SAVORS),A:LD   (WEPPPOWER),A
                LD   (WEPTYPE+1),A:LD   (PAKTYPE+1),A
                INC  A:CALL PLAYMUSIC

                LD   A,(INFLIVES)
                OR   A:LD   A,STARTLIVES:JR   Z,JOEY:LD   A,12
JOEY           LD   (LIVES),A

                LD   HL,"00":LD   (SCORE+0),HL:LD   (SCORE+2),HL
                LD   (SCORE+4),HL:LD   (SCORE+6),HL

SAMELEVEL      CALL GAME
                LD   A,(RETMODE):DEC  A:ADD  A,A:LD   E,A:LD   D,0
                LD   HL,RETMODES:ADD  HL,DE
                LD   E,(HL):INC  HL:LD   D,(HL):EX  DE,HL:JP   (HL)

*****

GAMEOVER
REALGAMEOVER   LD   B,65:CALL BFLY:CALL SPRINT
                DB   PRINK,$47,PRGAMECLS,PRSIZE,1
                DB   PRAT,11,10,"GAME OVER",PREOF
                LD   B,50:CALL BFLY

TESTLOADLEV1   LD   HL,SCORE:LD   DE,LASTSCORE:LD   BC,8:LDIR
                CALL TESTHIGH:DB   62

LEVEL          DB   STARTLEV
                CP   STARTLEV:JP   Z,INTROLOOP
                LD   A,STARTLEV:LD   (LEVEL),A:CALL LOADLEVEL:JP   INTROLOOP

NEXTLEVEL      LD   A,(LEVEL):INC  A:LD   (LEVEL),A:CP   10:JP   NZ,FIB
                CALL SPRINT:DB   PRGAMECLS,PRINK,$47,PRSIZE,1
                DB   PRAT,07,04,"CONGRATULATIONS!!!"
                DB   PRAT,08,07,"YOU'VE ESCAPED!!",PREOF
SAVEDPEOPLE    LD   A,0:OR   A:JR   Z,NO_1_SAVED:ADD  A,"0":LD   (SAVED+13),A
                CALL SPRINT
SAVED          DB   PRAT,01,10,"AND SAVED 1 OF YOUR RELATIVES.",PREOF
                JR   SAVED_SOME
NO_1_SAVED     CALL SPRINT
                DB   PRAT,02,10,"BUT YOU DIDN'T SAVE ANYONE!!",PREOF
SAVED_SOME     LD   B,0:CALL BFLY:CALL BFLY:JP   REALGAMEOVER

FIB            CALL LOADLEVEL:JP   SAMELEVEL

LOADLEVEL     ;
;             LD   A,(LEVEL):ADD  A,"0":LD   (LEVNM),A:CALL GAMECLS
;             CALL SPRINT:DB   PRINK,7,PRSIZE,1,PRAT,10,10,"LOAD LEVEL "
;LEVNM         DB   "1",PREOF

                CALL KILLSOUND

                LD   A,(LEVEL):DEC  A:LD   DE,LLDATLEN:LD   HL,LLDAT:CALL MULT
```

```

LD A,(HL):INC HL
LD D,(HL):INC HL:LD E,0
LD BC,$2000
PUSH HL:LD HL,LEVELDATA:CALL PAGECOPY:POP HL
LD A,(HL):JP PLAYMUSIC

LLDATLEN EQU 3
LLDAT
DB $11,$E0,6 ; 1
DB $11,$C0,1 ; 2

DB $13,$C0,1 ; 3
DB $13,$E0,6 ; 4
DB $14,$C0,3 ; 5
DB $14,$E0,1 ; 6
DB $16,$C0,3 ; 7
DB $16,$E0,6 ; 8
DB $17,$C0,4 ; 9

BFLY PUSH BC:CALL BEEPER:POP BC:DJNZ BFLY:RET

;*****
; ** MISC ROUTINES **
;*****

BAXITA LD B,(HL):INC HL:LD C,(HL):INC HL
LD A,D:AND $F8:LD D,A:PUSH DE:PUSH BC
SRL C:CALL BAXIT:EX DE,HL:POP BC:POP DE
ATRIT SRL C:SRL C:SRL C
BAXATR PUSH HL:CALL BATAD:POP DE
BAXITALP PUSH BC:PUSH HL
BAXITALP1 LD A,(DE):INC DE:OR A:JR Z,DENO:LD (HL),A
DENO INC L:LD A,L:AND 31:JR NZ,NAG
LD A,L:SUB 32:LD L,A
NAG DJNZ BAXITALP1:POP HL:LD BC,32:ADD HL,BC
POP BC:DEC C:JP NZ,BAXITALP:RET

BAXITFLIP LD A,C:ADD A,A:ADD A,D:DEC A:LD D,A:PUSH HL:LD HL,-32
LD (BAXDIR1+1),HL:LD (BAXDIR2+1),HL:POP HL:CALL BAXIT
LD HL,32:LD (BAXDIR1+1),HL:LD (BAXDIR2+1),HL:RET
BAXIT PUSH HL:CALL BIXAD:POP DE
BAXITCLP PUSH BC
BAXITBLP1 LD A,(DE):INC DE:LD (HL),A:INC HL:DJNZ BAXITBLP1:DEC HL
BAXDIR1 LD BC,32:ADD HL,BC:POP BC:PUSH BC
BAXITBLP2 LD A,(DE):INC DE:LD (HL),A:DEC HL:DJNZ BAXITBLP2:INC HL
BAXDIR2 LD BC,32:ADD HL,BC:POP BC:DEC C:JP NZ,BAXITCLP:RET

BAXITMIRFLIP LD A,C:ADD A,A:ADD A,D:DEC A:LD D,A:PUSH HL:LD HL,-32
LD (MAXDIR1+1),HL:LD (MAXDIR2+1),HL:POP HL:CALL BAXITMIR
LD HL,32:LD (MAXDIR1+1),HL:LD (MAXDIR2+1),HL:RET
BAXITMIR LD A,B:DEC A:ADD A,A:ADD A,A:ADD A,A:ADD A,E:LD E,A
PUSH HL:CALL BIXAD:POP DE:EXX :LD B,MIRPAGE/256:EXX
MAXITCLP PUSH BC
MAXITBLP1 LD A,(DE):INC DE:EXX :LD C,A:LD A,(BC):EXX
LD (HL),A:DEC HL:DJNZ MAXITBLP1:INC HL
MAXDIR1 LD BC,32:ADD HL,BC:POP BC:PUSH BC
MAXITBLP2 LD A,(DE):INC DE:EXX :LD C,A:LD A,(BC):EXX
LD (HL),A:INC HL:DJNZ MAXITBLP2:DEC HL
MAXDIR2 LD BC,32:ADD HL,BC:POP BC:DEC C:JP NZ,MAXITCLP:RET

DELAYBC DEC BC:LD A,B:OR C:JP NZ,DELAYBC
RETURN RET

; L=X,H=XLEN,E=X1,D=X1LEN,NC=HIT
HITA LD A,L:ADD A,H:JR C,HITAX:CP E:RET C
HITA2 LD A,E:ADD A,D:JR C,HITAY:CP L:RET
HITAX CP E:JR C,HITA2:SUB H:CP E:CCF :RET C:JR HITAZ
HITAY CP L:CCF :RET NC:SUB D:CP L:CCF :RET

RAND PUSH HL:PUSH BC:LD HL,RND1:LD C,(HL):INC HL:LD A,(HL)
SRL C:SRL C:SRL C:XOR C:INC HL:RRA
RL (HL):DEC HL:RL (HL):DEC HL:RL (HL):POP BC:POP HL
RET

RND1 DB 128
RND2 DB 255
RND3 DB 63

BATAD2 SRL E:SRL E:SRL E:SRL D:SRL D:SRL D
LD HL,BACKATR2:LD A,D:LD D,0:ADD HL,DE:LD E,26

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```

        JP      MULT
BIXAD2  SRL     E:SRL E:SRL E
BAXAD2  LD      HL,BACKSCR2:LD A,D:LD D,0:ADD HL,DE:LD E,26
        JP      MULT

BATAD   SRL     E:SRL E:SRL E:SRL D:SRL D:SRL D
        LD      HL,BACKATR:LD A,D:LD D,0:ADD HL,DE:LD E,32
        JP      MULT
BIXAD   SRL     E:SRL E:SRL E
BAXAD   LD      HL,BACKSCR:LD A,D:LD D,0:ADD HL,DE:LD E,32
MULT     OR      A:RET Z:RRA :JR NC,MULT1:ADD HL,DE
MULT1    EX      DE,HL:ADD HL,HL:EX DE,HL:JP MULT

DIXAD   RES     0,D
PIXAD   LD      A,D:ADD A,64:OR A:RRA :SCF :RRA :OR A:RRA
        XOR     D:AND $F8:XOR D:SUB 8:LD H,A
        LD      A,E:RLCA :RLCA :RLCA :XOR D:AND $C7:XOR D
        RLCA :RLCA :LD L,A:RET

PIXDN    INC     H:LD A,H:AND 7:RET NZ
        LD      A,L:ADD A,32:LD L,A:RET C
        LD      A,H:SUB 8:LD H,A:RET

PIXDNDE  INC     D:LD A,D:AND 7:RET NZ
        LD      A,E:ADD A,32:LD E,A:RET C
        LD      A,D:SUB 8:LD D,A:RET

CHRAD   LD      A,D:AND 7:RRCA :RRCA :RRCA :OR E:LD E,A
        LD      A,D:AND 24:OR 64:LD D,A:RET

PIXATRAD SRL     E:SRL E:SRL E:SRL D:SRL D:SRL D
ATRAD   LD      HL,BACKATR:LD A,D:LD D,0:ADD HL,DE
        LD      E,32:JP MULT

```

```

;*****
; ** INTERRUPT ROUTINES **
;*****

```

```

PLAYMUSIC CP      $FF:RET Z:LD (PLAYMUSIC+1),A:LD (TUNENUM+1),A
        DI
        LD      A,$3F:LD I,A
        IM 1
        LD      A,$17:LD BC,$7FFD:OUT (C),A
TUNENUM  LD      A,0:CALL MUSINITTUNE
        LD      A,$10:LD BC,$7FFD:OUT (C),A
        LD      A,$FE:LD I,A
        IM 2
        EI      :RET

KILLSOUND LD      A,$FF:LD (PLAYMUSIC+1),A
        DI      :LD A,$3F:LD I,A
        IM 1
        LD      A,$17:LD BC,$7FFD:OUT (C),A
        CALL    MUSRETSOUND
        LD      A,$10:LD BC,$7FFD:OUT (C),A
        LD      A,$FE:LD I,A
        IM 2
        EI      :RET

INTER    DI      :LD HL,INTPAGE:LD DE,INTPAGE+1:LD BC,$100
        LD      (HL),$FF:LDIR
        LD      HL,INTRUP:LD DE,INTJP:LD BC,12:LDIR
        LD      A,INTPAGE/256:LD I,A:IM 2 :EI :RET

INTRUP   JP      INTS
        DB      "J.BAGLEY",24

INTS     DI      :PUSH AF
MUSCONT  LD      A,1:OR A:JR Z,HERE
        PUSH    BC
        LD      A,$17:LD BC,$7FFD:OUT (C),A
        PUSH    IX:PUSH HL:PUSH DE
        CALL    MUSDOMUSIC
        POP     DE:POP HL:POP IX
PAGEON   LD      A,$10:LD BC,$7FFD:OUT (C),A
        POP     BC
        LD      A,255:LD R,A
        LD      A,0:INC A:LD (FRAME+1),A
        POP     AF:EI :RET

```

```

;*****
; ** PRINT ROUTINES **
;*****

```

```

UDGS
HEARTCHR_80 DBH 0076EFFFF77E3C18
KEYCHR1__81 DBH 07CF1F9C1C9F0F87E0F3F93938D9F0E1
KEYCHR2__83 DBH 008101810181A9000081C0C1C0C1D580
KEYCHR3__85 DBH 00D50080008000800053010100010001
KEYCHR4__87 DBH 008000800080A9000001000100015500
PAKCHR__89 DBH 056800F1E9006805E0F600DFDF00F6E0
GUNCHR__8B DBH F887B0A0838488F0EF904700908F84FCFC06A90906FC0000

```

```

BOXUDGS
DB %11111111,%00000111
DB %11111000,%00011000
DB %11100000,%00100000
DB %11000000,%01000000
DB %11000000,%01000000
DB %10000000,%10000000
DB %10000000,%10000000
DB %10000000,%10000000
DB %10000000,%10000000

DB %11111111,%11100000
DB %00011111,%00011000
DB %00000111,%00000100
DB %00000011,%00000010
DB %00000011,%00000010
DB %00000001,%00000001
DB %00000001,%00000001
DB %00000001,%00000001
DB %00000011,%00000010
DB %00000011,%00000010
DB %00000111,%00000100
DB %00011111,%00011000
DB %11111111,%11100000

DB %10000000,%10000000
DB %10000000,%10000000
DB %10000000,%10000000
DB %11000000,%01000000
DB %11000000,%01000000
DB %11100000,%00100000
DB %11111000,%00011000
DB %11111111,%00000111

DB %00000000,%10000001
DB %00000001,%10000010
DB %00000011,%10000100
DB %10000111,%01000100
DB %10000111,%01000100
DB %11000011,%00100010
DB %11110001,%00011001
DB %11111100,%00000111

```

```

;*****

```

```

SPRINT POP HL:CALL PRINT:JP (HL)

PRINT LD A,(HL):INC HL:CP PREOF:RET Z
CP 32:JP C,PRTCODES:CALL PRTCELL:JP PRINT

PRTUDG LD L,A:LD H,0:ADD HL,HL:ADD HL,HL:ADD HL,HL
LD BC,UDGS:ADD HL,BC:LD (UDGHL+1),HL
POP BC:POP DE:POP HL
LD BC,(FONT):PUSH BC
; LD A,(FONT+2):PUSH AF

LD BC,UDGRET:PUSH BC:PUSH HL:PUSH DE:PUSH BC
XOR A:LD L,A:LD H,A:LD (FONT),HL
; LD (FONT+2),A
; LD (FONT+3),HL

UDGHL LD HL,$0000:JR PRTCHR
UDGRET
; POP AF:LD (FONT+2),A

```

```

POP BC:LD (FONT),BC
;
;
; RRCA :OR (HL):LD (FONT+3),BC
RET

PRTCELL PUSH HL:PUSH DE:PUSH BC:XOR 128:JP P,PRTUDG
LD L,A:LD H,7:ADD HL,HL:ADD HL,HL:ADD HL,HL
PRTCHR LD A,D:AND 7:RRCA :RRCA :RRCA :OR E:LD E,A
LD A,D:AND 24:OR 64:LD D,A:PUSH DE:LD B,8
CHRBLP LD A,(HL)
FONT RRCA :OR (HL)
;
; INC HL:OR (HL):DEC HL
; RRCA :OR (HL)
CHRSize NOP :NOP
LD (DE),A
INC D:LD A,D:AND 7:JR NZ,PSKP
LD A,E:ADD A,32:LD E,A:JR C,PSKP
LD A,D:SUB 8:LD D,A
PSKP INC HL:DJNZ CHRBLP:POP DE
LD A,D:RRA :RRA :RRA :AND 3:OR 88:LD D,A:DB 62
ATTR DB 7+64
OR A:JP M,NOMORE+1:JR NOMORE
FROM LD (DE),A:LD A,E:ADD A,32:LD E,A
ADC A,D:SUB E:LD D,A:DB 62
ATTR2 DB 7+64
NOMORE LD (DE),A:POP BC:POP DE:POP HL
INC E:LD A,E:CP 32:RET C
DOWNLINE LD E,0:INC D:LD A,D:CP 24:RET C:LD D,0:RET

PRTCODES CP PRKEY:JP Z,PRTKEY
CP PRAT:JP Z,PRTAT
CP PRINK:JP Z,PRTINK
CP PRINK2:JP Z,PRTINK2
CP PRCLS:JP Z,PRTCLS
CP PRSIZE:JP Z,PRTSIZE
CP PRMULTY:JP Z,PRTMULTY
CP PRGAMECLS:JP Z,PRTGAMECLS
CP PRPAUSE:JP Z,PRTPAUSE
JP PRINT

;DEC5 LD BC,1000:CALL DEC0
;DEC4 LD BC,1000:CALL DEC0
DEC3 LD BC,100:CALL DEC0
DEC2 LD BC,10:CALL DEC0
DEC1 LD BC,1
DEC0 LD A,"0"-1
DECL INC A:OR A:SBC HL,BC:JR NC,DECL
ADD HL,BC:JP PRTCELL

PRTPAUSE CALL PAUSE0:JP PRINT

PRTGAMECLS PUSH HL:CALL GAMECLS:POP HL:LD DE,0:JP PRINT

PRTSIZE LD A,(HL):INC HL:OR A:JR Z,NAMO
DEC A:JR Z,EDZ:INC A
LD C,A:LD B,(HL):INC HL:XOR A:JR SETSIZE
EDZ DB 1
LD (DE),A:INC D
SETSIZE LD (CHRSize),BC:LD (FROM-1),A:JP PRINT
NAMO LD C,A:LD B,A:LD A,NOMORE-FROM:JR SETSIZE

PRTMULTY LD B,(HL):INC HL:LD C,(HL):INC HL
LD A,B:OR A:JP Z,PRINT
PRTM1 PUSH BC:LD A,C:CALL PRTCELL:POP BC:DJNZ PRTM1:JP PRINT

PRTKEY LD A,(HL):INC HL:LD (ATTR),A
LD A,(HL):INC HL:PUSH AF:CALL PRTCELL
LD A,(ATTR):XOR $40:LD (ATTR),A:POP AF:INC A
CALL PRTCELL:LD A,E:SUB 2:LD E,A:INC D:JP PRINT

PRTCLS PUSH HL:CALL CLS:POP HL:JP PRINT

PRTAT LD E,(HL):INC HL:LD D,(HL):INC HL:JP PRINT

PRTINK LD A,(HL):INC HL:LD (ATTR),A:LD (ATTR2),A:JP PRINT
PRTINK2 LD A,(HL):INC HL:LD (ATTR2),A:JP PRINT

CLS LD A,(ATTR)
LD HL,$5800:LD DE,$5801:LD BC,$02FF:LD (HL),A:LDIR
LD HL,$4000:LD DE,$4001:LD BC,$17FF:LD (HL),L:LDIR

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LD DE,$0000:RET

GAMECLS LD HL,$5800:LD DE,$5801:LD BC,$01FF:LD (HL),L:LDIR
LD HL,$4000:LD DE,$4001:LD BC,$0FFF:LD (HL),L:LDIR
RET

;*****
; ** KEYBOARD ROUTINES **
;*****

XTRAKEYS DB %10111111,%10000 ; H (PAUSE GAME..)
DB %01111111,%00001 ; SPACE (NITRO ETC..)

KEYBOARD DB %01111111,%00100 ; M
DB %11111011,%00001 ; Q
DB %11111101,%00001 ; A
DB %11011111,%00010 ; O
DB %11011111,%00001 ; P

FACEII DB %11101111,%00001 ; 0
DB %11101111,%00010 ; 9
DB %11101111,%00100 ; 8
DB %11101111,%10000 ; 6
DB %11101111,%01000 ; 7

CURSORS DB %11101111,%00001 ; 0
DB %11101111,%01000 ; 7
DB %11101111,%10000 ; 6
DB %11101111,%10000 ; 5
DB %11101111,%00100 ; 8

READKEYS LD A,CONT
PUSH AF:LD HL,XTRAKEYS:LD BC,$0200:CALL CONTLOP:POP AF
LD HL,KEYBOARD:OR A:JR Z,GOTCONT:DEC A:JR Z,KEMPSTON
LD HL,FACEII:DEC A:JR Z,GOTCONT:LD HL,CURSORS
GOTCONT LD B,5:CALL CONTLOP:LD A,C:LD (FUDLR),A:RET
CONTLOP LD A,(HL):INC HL:IN A,(254)
AND (HL):INC HL:JR NZ,NOSCF:SCF
NOSCF RL C:DJNZ CONTLOP:LD A,C:LD (FUDLR),A:RET

KEMPSTON RRC C:RRC C:RRC C
LD A,1:IN A,(31):AND 31:OR C:LD (FUDLR),A
RET

PAUSE LD BC,$F000:JP DELAYBC

PAUSE0 CALL WAITNOKEY:CALL WAITKEY
WAITNOKEY PUSH HL:PUSH BC:CALL READKEYS:POP BC:POP HL
OR A:JR NZ,WAITNOKEY
XOR A:IN A,($FE):CPL :AND 31:JR NZ,WAITNOKEY:RET
WAITKEY PUSH HL:PUSH BC:CALL READKEYS:POP BC:POP HL
OR A:RET NZ
XOR A:IN A,($FE):CPL :AND 31:JR Z,WAITKEY:RET

;*****
; ** BEEPER ROUTINES **
;*****

GOBEEP LD E,A:LD A,(BEEPNUM):OR A:JR Z,ISBEEP
CP E:JR Z,ISBEEP:RET NC
ISBEEP LD A,E:LD (BEEPNUM),A:ADD A,A:LD E,A:LD D,0
LD HL,BEEPTAB-2:ADD HL,DE:LD E,(HL):INC HL:LD D,(HL)
LD (BEEPOS),DE
RET

BEEPER EI :XOR A:LD R,A:DB 62
BEEPNUM DB 0
OR A:JR Z,NOBEEP:DB 33
BEEPOS DW 0
LD A,(HL):INC HL:CP FIN:JR Z,ENDBEEP
LD (BEEPOS),HL:LD C,A:SRL A:JR C,WHITE
DOBEEP LD A,24:OUT (254),A:LD B,C
Z0 LD A,R:RET M:DJNZ Z0
LD A,0:OUT (254),A:LD B,C
Z1 LD A,R:RET M:DJNZ Z1
INC C:JR DOBEEP

ENDBEEP XOR A:LD (BEEPNUM),A
NOBEEP LD A,R:RET M:JR NOBEEP

```

```

DODRM      LD  A,24:OUT (254),A:LD  A,(RND1):LD  B,A
BE0        LD  A,R:RET  M:DJNZ BE0
           LD  A,0:OUT (254),A
BEAT       LD  B,0
BE1        LD  A,R:RET  M:DJNZ BE1
           CALL RAND:DJNZ DODRM

WHITE      LD  A,(BEAT+1):PUSH AF
           LD  A,C:LD  (BEAT+1),A:CALL DODRM
           POP  AF:LD  (BEAT+1),A:RET

;*****
;
; ** SOUND FX **
;*****

BEEPTAB    DW  WALKFX
           DW  SHOOTFX
           DW  FLAMEFX
           DW  EXPLODEFX
           DW  GETKEYFX
           DW  KILLBADFX

WALKFX     DB  200,FIN
SHOOTFX    DB  010,200,FIN
FLAMEFX    DB  250,100,200,050,150,FIN
EXPLODEFX  DB  200,100,050,120,120,050,FIN
GETKEYFX   DB  100,200,150,150,200,100,FIN
KILLBADFX  DB  200,050,FIN

;*****
;
; ** HIGH SCORE PAGE **
;*****

NAMEADD    EQU  6
SCOREADD   EQU  17
HILEN      EQU  25

TESTHIGH   CALL KILLSOUND:CALL WAITNOKEY
           LD  HL,HI1+SCOREADD:LD  C,10
TSTHICLP   PUSH HL:LD  DE,SCORE:LD  B,8
TSTHIBLP   LD  A,(DE):CP  (HL):JR  C,LOWERHIGH:JR  NZ,GOTHIGH
SAMEHIGH   INC  HL:INC  DE:DJNZ TSTHIBLP
LOWERHIGH  POP  HL:LD  DE,HILEN:ADD HL,DE:DEC  C:JP  NZ,TSTHICLP:RET
GOTHIGH    POP  HL:LD  DE,HI10+NAMEADD:LD  A,C:LD  (NAMENUM),A
           DEC  A:JR  Z,NOSCRO:LD  HL,HI9+NAMEADD
SCROHI     PUSH HL:PUSH DE:PUSH BC:LD  BC,10+1+8:LDIR
           POP  BC:POP  DE:POP  HL:LD  BC,0-HILEN:ADD HL,BC
           EX  DE,HL:ADD HL,BC:EX  DE,HL:DEC  A:JR  NZ,SCROHI
NOSCRO     PUSH DE:LD  HL,11:ADD HL,DE:EX  DE,HL
           LD  HL,SCORE:LD  BC,8:LDIR

           LD  HL,NAMETEXT:LD  DE,NAMETEXT+1:LD  BC,10:LD  (HL)," "
           LDIR

           LD  HL,HIGHSCORETEXT:CALL PRINT:CALL SPRINT
           DB  PRINK,$4E,PRSIZE,1,PRAT,05,14,"  STICK YA NAME IN  "
           DB  PRINK,$07,PRSIZE,0,PREOF

           LD  A,7:CALL PLAYMUSIC
           XOR  A:LD  (NAMEX),A

NAMELOOPZ   LD  A,31:LD  (ALPHANUM),A
NAMELOOP    LD  B,8:PUSH BC:CALL BEEPER:POP  BC:DJNZ NAMELOOP+2
           LD  A,(NAMENUM):NEG :ADD A,14:LD  D,A:LD  E,8
           LD  HL,NAMETEXT:CALL PRINT:LD  A,(ALPHANUM)
           LD  HL,ALPHABET:CALL ADDHLA
           LD  DE,NAMETEXT:LD  A,(NAMEX):ADD A,E:LD  E,A
           ADC  A,D:SUB  E:LD  D,A:LD  A,(HL):LD  (DE),A
           LD  A,(NAMEX):ADD A,8:LD  E,A
           LD  A,(NAMENUM):NEG :ADD A,14:LD  D,A
           LD  A,$38:LD  (ATTR),A
           LD  A,(HL):CALL PRCELL:LD  A,$07:LD  (ATTR),A

CALL READKEYS:LD  C,A:LD  A,(ALPHANUM)
RR  C:JR  NC,NOTRT
INC  A:PUSH AF:LD  A,2:CALL GOBEEP:POP  AF
RR  C:JR  NC,NOTLT
DEC  A:PUSH AF:LD  A,2:CALL GOBEEP:POP  AF

```

```

NOTLT      AND 31:LD (ALPHANUM),A:BIT 4-2,C:JR Z,NAMELOOP

           CP 31:JR Z,ENTER
           CP 30:JR Z,DELETE

           LD A,(NAMEX):CP 10:JP Z,NAMELOOP
           PUSH AF:LD A,3:CALL GOBEEP:POP AF
           INC A:LD (NAMEX),A:CP 10:JP Z,NAMELOOPZ
           JP NAMELOOP

DELETE     LD A,(NAMEX):OR A:JP Z,NAMELOOP
           PUSH AF:LD A,1:CALL GOBEEP:POP AF
           LD HL,NAMETEXT:LD DE,(NAMEX):LD D,0:ADD HL,DE
           LD (HL)," ":DEC A:LD (NAMEX),A:JP NAMELOOP

ENTER      LD HL,NAMETEXT:LD DE,(NAMEX):LD D,0:ADD HL,DE
           LD (HL)," ":POP DE:LD HL,NAMETEXT:LD BC,10:LDIR
           JP CLS

ALPHANUM   DB 0
ALPHABET   DB "ABCDEFGHIJKLMNOPQRSTUVWXYZ .<re"

NAMEX      DB 0
NAMENUM    DB 10 ; 10 = HIGH 1
NAMETEXT   DB " ",PREOF

HIGHSCORES LD A,HIGHTUNE:CALL PLAYMUSIC
XOR A:LD (ATTR),A:CALL CLS:CALL SPRINT
HIGHSCORETEXT DB PRINK,$45,PRINK2,$44,PRGAMECLS,PRSIZE,1
DB PRAT,06,00,"MIDNIGHT RESISTANCE"
DB PRSIZE,0,PRAT,09,03,"TOP 10 PLAYERS"
HI1        DB PRAT,05,04,"01 JAMES B. 00010000"
HI2        DB PRAT,05,05,"02 JACQUI H. 00009000"
HI3        DB PRAT,05,06,"03 PAT W. 00008000"
HI4        DB PRAT,05,07,"04 NIGE W. 00007000"
HI5        DB PRAT,05,08,"05 CRAIG W. 00006000"
HI6        DB PRAT,05,09,"06 DONNA W. 00005000"
HI7        DB PRAT,05,10,"07 DAVE B. 00004000"
HI8        DB PRAT,05,11,"08 KATHY H. 00003000"
HI9        DB PRAT,05,12,"09 HELLO MUM. 00002000"
HI10       DB PRAT,05,13,"10 THATS ALL! 00001000"
DB PRAT,05,15,"LAST PLAYER.. "
LASTSCORE  DB "00000000",PREOF
CALL SPRINT:DB PRSIZE,1
DB PRAT,10,17,"FIRE TO PLAY"
DB PRAT,06,19,"'S' TOGGLE MUSIC OFF"
DB PRAT,04,22,"WINNERS DON'T USE DRUGS.",PREOF
CALL SHOWTOG

HIGHLOOP   LD A,$FD:IN A,(254):AND Z:JR NZ,NOTOG
           LD A,(MUSCONT+1):XOR 1:LD (MUSCONT+1),A
           OR A:PUSH AF:CALL Z,KILLSOUND
           POP AF:LD A,(TUNENUM+1):CALL NZ,PLAYMUSIC
           CALL SHOWTOG:CALL WAITNOKEY
NOTOG      CALL READKEYS:DB 62
FUDLR      DB 0
           AND $10:JR Z,HIGHLOOP:JP CLS

SHOWTOG    LD A,(MUSCONT+1):OR A:LD HL,"FF":JR Z,MOF:LD HL," N"
MOF         LD (HABBY-2),HL
CALL SPRINT:DB PRSIZE,1,PRAT,24,19,"FF"
HABBY      DB PRSIZE,0,PREOF
           RET

```

```

*****
; ** DUMP BACK SCREEN ROUTINE **
*****

```

```

DUMPBK     LD HL,BACKATR+3:LD DE,$5803:EXX :LD HL,BACKSCR+3
           LD DE,$4003:CALL PLINE:LD DE,$4023:CALL PLINE
           LD DE,$4043:CALL PLINE:LD DE,$4063:CALL PLINE
           LD DE,$4083:CALL PLINE:LD DE,$40A3:CALL PLINE
           LD DE,$40C3:CALL PLINE:LD DE,$40E3:CALL PLINE
           LD DE,$4803:CALL PLINE:LD DE,$4823:CALL PLINE
           LD DE,$4843:CALL PLINE:LD DE,$4863:CALL PLINE
           LD DE,$4883:CALL PLINE:LD DE,$48A3:CALL PLINE
           LD DE,$48C3:CALL PLINE:LD DE,$48E3
PLINE      LD C,H:LD A,8
PLIN1      LDI :LDI :LDI :LDI :LDI :LDI :LDI :LDI

```



```

LDI :LDI :LDI :LDI :LDI :LDI :LDI :LDI
LDI :LDI :LDI :LDI :LDI :LDI :LDI :LDI
LDI :LDI :LD BC,$0006:ADD HL,BC
EX DE,HL:LD C,$E6:ADD HL,BC:EX DE,HL
DEC A:JP NZ,PLIN1
EXX :LD C,H:LDI :LDI :LDI :LDI :LDI :LDI
LDI :LDI :LDI :LDI :LDI :LDI :LDI :LDI
LDI :LDI :LDI :LDI :LDI :LDI :LDI :LDI
LDI :LDI :LD BC,$0006:ADD HL,BC
EX DE,HL:ADD HL,BC:EX DE,HL:EXX :RET

COPYBACK LD HL,COPYLINE:PUSH HL:PUSH HL:PUSH HL
PUSH HL:PUSH HL:PUSH HL:PUSH HL:PUSH HL:PUSH HL
PUSH HL:PUSH HL:PUSH HL:PUSH HL:PUSH HL:PUSH HL
LD HL,BACKATR2:LD DE,BACKATR+3:EXX
LD HL,BACKSCR2:LD DE,BACKSCR+3
COPYLINE LD A,8
CLIN1 LD BC,26:LDIR :INC E:INC E:INC DE:INC E:INC E:INC E
DEC A:JP NZ,CLIN1:EXX :LD BC,26:LDIR
INC E:INC E:INC DE:INC E:INC E:INC E:EXX :RET

;*****
;
; ** COPY DATA FROM 'DE' PAGE 'A' TO 'HL' PAGE 0 FOR 'BC' BYTES **
;*****

PAGECOPY PUSH DE:EXX :POP HL:LD D,A:LD E,$10:LD BC,$7FFD:EXX
DI
LD A,$3F:LD I,A
IM 1
BCPAGECOPY EXX :OUT (C),D:LD A,(HL):INC HL
OUT (C),E:EXX :LD (HL),A:INC HL
DEC BC:LD A,B:OR C:JP NZ,BCPAGECOPY
LD A,$FE:LD I,A
IM 2
EI :RET

;*****
;
; ** THE GAME CODE **
;*****

GAME LD HL,(LEVELSTARTUP):LD (HEROX+1),HL
LD A,H:SUB $10:LD H,A:LD (GUNX+1),HL

LD HL,(MAPXS):LD (MAPX),HL
LD A,(MAPDIRS):LD (MAPDIR),A
LD A,(RM):LD (RIGHTMAX+1),A
LD A,(RDM):LD (DOWNMAX+1),A
LD A,(UD):LD (SETUD+1),A
LD A,(LR):LD (SETLR+1),A

LD A,(LD1):LD (LAD1+1),A
LD A,(LD2):LD (LAD2+1),A
LD A,(CR1):LD (CRAWLPLAT+1),A
LD A,(SL1):LD (SLID1+1),A
LD A,(SL2):LD (SLID2+1),A
LD A,(SL3):LD (SLID3+1),A
LD A,(SL4):LD (SLID4+1),A

LD HL,(CHRS):LD (DMPCHRAD+1),HL
LD HL,(ATRS):LD (DMPATRAD+1),HL
LD HL,(BLOX):LD (BLOXAD1+1),HL:LD (BLOXAD2+1),HL

DB 62
DB 0
MAPDIR OR A:PUSH AF:CALL Z,SETLEFTRIGHT:POP AF
PUSH AF:CALL NZ,SETUPDOWN:POP AF:JR NZ,SETU
LD DE,$0018
UPDATLOP1 PUSH DE:CALL UPDATLEX:POP DE:DEC E:DEC E
JP P,UPDATLOP1:JR SETL
SETU LD DE,$0F00
UPDATLOP2 PUSH DE:CALL UPDATEY:POP DE:DEC D:JP P,UPDATLOP2
SETL

LD A,18:LD (HEROP+1),A:LD A,2:LD (GUNDIR+1),A
XOR A:LD (NOScroll+1),A:LD (HEROF+1),A
LD (ONLADDER+1),A:DEC A:LD (HEROG+1),A
CALL RESETBAD:CALL PRTSTATUS

XOR A:LD (FRAME+1),A

```

```

GAMELOOP      XOR  A:LD  (RETMODE),A

               CALL DOALLBACKBITS
               CALL MOVEBAD:CALL DODGYCOLISH
               CALL READKEYS:CALL DECODE

               LD   DE,(WEPROOMX)
               LD   A,(MAPX):CP  E:JR  NZ,NOGOWEPROOM
               LD   A,(MAPY):CP  D:JR  NZ,NOGOWEPROOM
               LD   HL,(DOORXY):LD  A,(DOORSIZE):LD  H,A
               LD   DE,(HEROX+1):LD  D,$1F:CALL HITA:JR  C,NOGOWEPROOM
               LD   HL,(DOORXY+1):LD  A,(DOORSIZE+1):LD  H,A
               LD   DE,(HEROX+2):LD  D,$1F:CALL HITA:JR  C,NOGOWEPROOM
               LD   A,(PRTDOR+1):OR  A:JP  Z,WEAPONROOM
NOGOWEPROOM    LD   A,(FUDLR):AND  $40:CALL NZ,PAUSE0
               LD   A,(RETMODE):OR  A:RET  NZ
               JP   GAMELOOP
;
;               LD  A,BREAK:LD  (RETMODE),A
;               LD  A,127:IN  A,(254):RRA  :JP  C,GAMELOOP
;               LD  A,254:IN  A,(254):RRA  :JP  C,GAMELOOP:RET

;*****
;** DO ALL BACK BITS (EG. PRINT ALL SCREENS) **
;*****

DOALLBACKBITS XOR  A:LD  (BAGE+1),A
               CALL CONTSCROLL:CALL SCRCNT:CALL COPYBACK:CALL PRTDOOR
               CALL PRTLLEVELBACK

               LD   A,(STH+1):OR  A:JR  Z,SNF2
               LD   A,(SHIM+1):LD  (HEROX+2),A:SUB  $10:LD  (GUNX+2),A
               XOR  A:LD  (STH+1),A
SNF2

               CALL PRTWAPS:CALL PRTKEYS
               CALL PRTBADDIES:CALL PRTHERO:CALL PRTBARRIER:CALL PRTBULLETS
               CALL PRTFLAMES:CALL PRTEXP

MAZ            LD   A,$FD:IN  A,(254):AND  2
               JR   NZ,NOMOG
               LD   A,(MAZ):XOR  8:LD  (MAZ),A:AND  8:JR  Z,NOMOG
               LD   A,(MUSCONT+1):XOR  1:LD  (MUSCONT+1),A
               OR   A:PUSH AF:CALL Z,KILLSOUND
NOMOG          POP  AF:LD  A,(TUNENUM+1):CALL NZ,PLAYMUSIC

POS            CALL BEEPER:DB  62
               DB   0
               INC  A:LD  (POS),A:CALL RAND

               LD   HL,SCORETEXT:CALL PRINT
               LD   A,$47:LD  (ATTR),A
               LD   HL,(AMMOLEFT+1):LD  DE,$110C:CALL DEC3
               LD   HL,(BACKLEFT+1):LD  H,0:LD  DE,$1114:CALL DEC2

;               LD  A,(MAPX):LD  DE,$1610:CALL HEX8
;               LD  A,(MAPY):LD  DE,$1710:CALL HEX8

               LD   A,(POS):AND  7:LD  C,A:CP  6:CALL C,PRTCOL

               DBH  060010FE10FE

               LD   HL,$5A63
               LD   B,26:LD  A,B
               SUB  0:LD  C,A
               EQU  LIMP+1
               LD   A,C:CP  B:LD  A,&102:JR  C,PRTLF:XOR  A
               LD   (HL),A:INC  HL:DJNZ PLATELP

               LD   A,(BLAD+1):XOR  3:LD  (BLAD+1),A
               AND  1:LD  (MISSILEANI+1),A

               JP   DUMPBACK

PRTCOL         ADD  A,A:ADD  A,3:LD  E,A:LD  D,20:LD  A,C
KEYSCOLLECTED CP  6:LD  HL,NOKEYCEL:JR  NC,NUS:LD  HL,KEYCEL
NUS            JP   PRINT

KEYCEL         DB   PRSIZE,0,PRKEY,&013,$81,PRKEY,&016,$83,PREOF
NOKEYCEL        DB  PRSIZE,0,PRKEY,&013,$85,PRKEY,&016,$87,PREOF

```

```

;*****
; E=TENS TO ADD TO SCORE
; D=HUNDREDS TO ADD TO SCORE

ADDSORE      PUSH BC:PUSH HL:LD  HL,SCORE+7-1:LD  B,7
ADDSOREBLP   LD  A,(HL):ADD A,E:LD  (HL),A:CP  "9"+1:JR  C,NOTOVER
SUB 10:LD  (HL),A
LD  A,B:CP  5:JR  NZ,NOEXTRA; EVERY 10 THOUSAND POINTS
LD  A,(LIVES):CP  3:JR  NC,NOEXTRA:INC A:LD  (LIVES),A
NOEXTRA      INC  D:LD  A,D:CP  10:JR  C,NOTOVER
DEC HL:SUB 10:LD  E,A:LD  D,1:DJNZ ADDSCOREBLP
XITADDSORE   POP  HL:POP  BC:RET
NOTOVER      LD  A,D:OR  A:JR  Z,XITADDSORE
DEC HL:LD  E,D:LD  D,0:DJNZ ADDSCOREBLP:JR  XITADDSORE

;*****

PRTSTATUS    LD  A,(LEVEL):CP  STARTLEV:RET  NZ
CALL SPRINT:DB  PRSIZE,0
DB  PRINK,0,PRAT,03,19,PRMULTY,26,$80
DB  PRAT,09,17,PRKEY,5,$8B,PRAT,11,17,$8D
DB  PRAT,18,17,PRKEY,6,$89,PREOF

LD  BC,$0600
WAZS         PUSH BC:LD  A,C:CALL PRTCOL:POP  BC:INC  C:DJNZ WAZS:RET

;*****
; ** SCROLL ROUTINES **
;*****

CONTSROLL    LD  A,0:OR  A:RET  Z:DEC  A:LD  (CONTSROLL+1),A:PUSH AF
XOR A:LD  (NOSROLL+1),A:CALL SCROLLUP
CALL SCRODIR
; CALL SCROLLRIGHT
POP AF:RET  Z:LD  A,1:LD  (NOSROLL+1),A:RET

RETLR        LD  A,(MAPY)
SETLR        CP  $10:JP  Z,SETLEFTRIGHT:OR  A:RET

SETUPDOWN    LD  A,13:LD  (MAPXSIZE),A:LD  HL,(MAP2):LD  (MAP),HL
LD  HL,(BADDYINITSY):LD  (BADDATA+1),HL
LD  A,1:LD  (MAPDIR),A:XOR  A:RET

SCROLLUP     LD  A,(NOSROLL+1):CP  1:RET  NC
LD  A,(LEVEL):CP  5:JR  NZ,NOAE
LD  A,(MAPX):OR  A:RET  Z
NOAE         LD  A,(MAPDIR):OR  A:RET  Z
LD  A,(MAPY):OR  A:JR  Z,RETLR:DEC  A:LD  (MAPY),A
LD  HL,BACKATR2-$D0-1:LD  DE,BACKATR2-1:LD  BC,15*$D0:LDDR
LD  HL,BACKEND2-26-1:LD  DE,BACKEND2-1:LD  BC,15*26:LDDR
LD  HL,$0800:CALL SMODALLX:LD  DE,$0000
JP  UPDATEY

SCROLLDOWN   NOSROLL    LD  A,0:CP  1:RET  NC
LD  A,(MAPDIR):OR  A:RET  Z
LD  A,(MAPY)
DOWNMAX      CP  $10:JR  NC,RETLR:INC  A:LD  (MAPY),A
LD  HL,BACKSCR2+$D0:LD  DE,BACKSCR2:LD  BC,15*$D0:LDIR
LD  HL,BACKATR2+26:LD  DE,BACKATR2:LD  BC,15*26:LDIR
LD  HL,$F800:CALL SMODALLX:LD  DE,$0F00
UPDATEY      PUSH DE:LD  A,(MAPY):ADD A,D:LD  D,A
RRA
BLOXAD1     LD  HL,0:JR  NC,SEFDY:INC  HL:INC  HL
SEFDY        LD  (BLXAD+1),HL:DB  33
MAP          DW  0
LD  A,D:SRL  A:LD  D,0:ADD  HL,DE
PUSH AF:LD  A,(MAPXSIZE):LD  E,A:POP  AF
CALL MULT:POP  DE:LD  B,13
BLPER        PUSH BC:LD  A,(HL):INC  HL:PUSH HL
LD  L,A:LD  H,0:ADD  HL,HL:ADD  HL,HL
BLXAD        LD  BC,$FFFF:ADD  HL,BC:LD  A,(HL):INC  HL:CALL DMPCHR
LD  A,(HL):CALL DMPCHR:POP  HL:POP  BC:DJNZ BLPER
LD  A,(MAPY):CALL TRYINITBAD
CALL RETLR:CCF  :RET

;*****

RETUD        LD  A,(MAPX)

```

```

SETUD      CP  $E6:JP  Z,SETUPDOWN:OR  A:RET

SETLEFTRIGHT LD  A,(MAXMAP):LD  (MAPXSIZE),A:LD  HL,(MAP1):LD  (MAP),HL
XOR  A:LD  (MAPDIR),A
LD  HL,(BADDYINITX):LD  (BADDATA+1),HL:LD  A,(MAPX)
OR  A:RET  Z:CP  $E6:RET  Z:ADD  A,26:LD  (MAPX),A
LD  HL,(BADDYINITX2):LD  (BADDATA+1),HL:RET

SCROLLLEFT LD  A,(LEVEL):OR  A:JR  Z,DOSCLEFT
CP  9:JR  Z,FOR9
CP  5:SCF  :CCF  :RET  NZ
FOR9      LD  A,(NOSCROLL+1):CP  1:RET  NC
LD  A,(MAPDIR):OR  A:RET  NZ
DOSCLEFT LD  A,(MAPX):SUB  2:CCF  :JR  NC,RETUD:LD  (MAPX),A
LD  HL,BACKATR2-3:LD  DE,BACKATR2-1:LD  BC,16*$D0-2:LDDR
LD  HL,BACKEND2-3:LD  DE,BACKEND2-1:LD  BC,16*$26-2:LDDR
LD  HL,$0010:CALL  SMODALLX:LD  DE,$0000:JP  UPDATEx

SCROLLRIGHT LD  A,(LEVEL):OR  A:JR  Z,DOSCRIGHT
CP  9:SCF  :CCF  :RET  Z
CP  5:SCF  :CCF  :RET  Z
LD  A,(NOSCROLL+1):CP  1:RET  NC
LD  A,(MAPDIR):OR  A:RET  NZ

LD  A,(LEVEL):CP  4:JR  NZ,DOSCRIGHT
LD  A,(MAPX):CP  $AE:JR  C,DOSCRIGHT
CP  $DE-4:JR  NC,DOSCRIGHT:ADD  A,2:LD  (MAPX),A
LD  HL,BACKSCR2+$B62:LD  DE,BACKSCR2+$B60:LD  BC,$19E:LDIR
LD  HL,BACKATR2+$16E:LD  DE,BACKATR2+$16C:LD  BC,$032:LDIR
LD  HL,$00F0:CALL  SMODALLX:LD  A,1:LD  (BLPER2-1),A
LD  HL,(MAP):PUSH  HL:LD  A,(MAPXSIZE):LD  DE,7:CALL  MULT
LD  (MAP),HL:LD  DE,$0E18:CALL  UPDATEx
POP  HL:LD  (MAP),HL:LD  A,8:LD  (BLPER2-1),A:RET

DOSCRIGHT LD  A,(MAPX)
RIGHTMAX  CP  $E6:JP  NC,RETUD:ADD  A,2:LD  (MAPX),A
LD  HL,BACKSCR2+2:LD  DE,BACKSCR2:LD  BC,16*$D0-2:LDIR
LD  HL,BACKATR2+2:LD  DE,BACKATR2:LD  BC,16*$26-2:LDIR
LD  HL,$00F0:CALL  SMODALLX:LD  DE,$0018

UPDATEx  PUSH  DE:LD  A,(MAPX):ADD  A,E:LD  E,A
BLXAD2   LD  HL,0
SEFDX    LD  (BLXAD2+1),HL:LD  HL,(MAP):SRL  E
LD  D,0:ADD  HL,DE:POP  DE:LD  B,8
BLPER2   PUSH  BC:LD  A,(HL):DB  1
MAPXSIZE DW  0
BLXAD2   ADD  HL,BC:PUSH  HL:LD  L,A:LD  H,0:ADD  HL,HL:ADD  HL,HL
LD  BC,$FFFF:ADD  HL,BC
LD  A,(HL):INC  HL:CALL  DMPCHR
LD  A,(HL):INC  HL:CALL  DMPCHR:DEC  E:DEC  E:INC  D
LD  A,(HL):INC  HL:CALL  DMPCHR
LD  A,(HL):INC  HL:CALL  DMPCHR:DEC  E:DEC  E:INC  D
POP  HL:POP  BC:DJNZ  BLPER2
LD  A,(MAPX):CALL  TRYINITBAD
CALL  RETUD:CCF  :RET

```

```

DMPCHR    PUSH  HL:PUSH  DE:PUSH  BC:PUSH  DE
PUSH  AF:LD  HL,BACKSCR2:LD  A,D:LD  D,0:ADD  HL,DE
LD  E,$D0:CALL  MULT:POP  AF:PUSH  AF
LD  E,A:LD  D,0:EX  DE,HL:ADD  HL,HL:ADD  HL,HL:ADD  HL,HL
DMPCHRAD LD  BC,0:ADD  HL,BC:EX  DE,HL
LD  BC,26:LD  A,(DE):LD  (HL),A:INC  DE:ADD  HL,BC
LD  A,(DE):LD  (HL),A:INC  DE:ADD  HL,BC
LD  A,(DE):LD  (HL),A:INC  DE:ADD  HL,BC
LD  A,(DE):LD  (HL),A:INC  DE:ADD  HL,BC
LD  A,(DE):LD  (HL),A:INC  DE:ADD  HL,BC
LD  A,(DE):LD  (HL),A:INC  DE:ADD  HL,BC
LD  A,(DE):LD  (HL),A:POP  AF
DMPATRAD LD  BC,0:ADD  A,C:LD  C,A:ADC  A,B:SUB  C:LD  B,A
POP  DE:LD  HL,BACKATR2:LD  A,D:LD  D,0:ADD  HL,DE
LD  E,26:CALL  MULT:LD  A,(BC):LD  (HL),A
POP  BC:POP  DE:POP  HL:INC  E:RET

```

```

SMODALLX
SMODHERO  LD  A,1:OR  A:RET  Z

```

```

SMODALLXBLP LD IX,BADDAT:LD DE,BADLEN:LD B,NOBAD
LD A,(IX+ACTION):OR A:JR Z,OKDD:CP 6:JR Z,OKDD
LD A,(IX+XPOS):ADD A,L:LD (IX+XPOS),A
CP $E8:JR C,OKDE:LD (IX+ACTION),0
OKDE LD A,(IX+YPOS):ADD A,H:LD (IX+YPOS),A
OR A:JP P,OKDD:CP $B0:JR C,OKDD:CP $D0:JR NC,OKDD
LD (IX+ACTION),0
OKDD ADD IX,DE:DJNZ SMODALLXBLP

SMWP LD IX,WAPXYS:LD DE,5:LD B,6
LD A,(IX+02):CP $FF:JR Z,SKWP
LD A,(IX+01):ADD A,H:LD (IX+01),A
CP $B0:JR C,SKWP:CP $D0:JR NC,SKWP:LD (IX+02),$FF
SKWP ADD IX,DE:DJNZ SMWP

SMODALLXBLP2 LD IX,KEYDAT:LD DE,KEYLEN:LD B,NOKEY
LD A,(IX+KEYX):OR A:JR Z,OKKD:ADD A,L:LD (IX+KEYX),A
CP $E8:JR C,OKKE:LD (IX+KEYX),0
OKKE LD A,H:OR A:JR Z,OKKD
LD A,(IX+KEYY):ADD A,H:LD (IX+KEYY),A
CP $B0:JR C,OKKD:CP $D0:JR NC,OKKD
LD (IX+KEYX),0
OKKD ADD IX,DE:DJNZ SMODALLXBLP2

SMODALLXBLP3 LD IX,BULDAT:LD DE,BULLEN:LD B,NOBUL
LD A,(IX+BULT):AND 7:CP 4:JR C,OKBD
LD A,(IX+BULX):OR A:JR Z,OKBD:ADD A,L:LD (IX+BULX),A
CP $E8:JR C,OKBE:LD (IX+BULX),0
OKBE LD A,(IX+BULY):ADD A,H:LD (IX+BULY),A
OR A:JP P,OKBD:LD (IX+BULX),0
OKBD ADD IX,DE:DJNZ SMODALLXBLP3

SMODALLXBLP3A LD IX,EXPDAT:LD DE,EXPLEN:LD B,NOEXP
LD A,(IX+EXPP):CP EXPDEAD:JR NC,0SET
LD A,(IX+EXPX):ADD A,L:LD (IX+EXPX),A
CP $E8:JR C,0SED:LD (IX+EXPP),EXPDEAD
0SED LD A,(IX+EXPY):ADD A,H:LD (IX+EXPY),A
OR A:JP P,0SET:LD (IX+EXPP),EXPDEAD
0SET ADD IX,DE:DJNZ SMODALLXBLP3A

CALL SMODLEVEL

LD A,(HEROX+2):ADD A,H
LD (HEROX+2),A:SUB $10:LD (GUNX+2),A
LD A,(HEROX+1):ADD A,L:CP $10:RET C:CP $D0:RET NC
LD (HEROX+1),A:LD (GUNX+1),A:RET

;*****
; ** DECODE JOYSTICK ROUTINE **
;*****

DYING LD DE,(HEROX+1):LD HL,(GUNX+1):LD A,(HEROG+1)
LD C,A:ADD A,D:OR A:JP M,FEST
SNA LD D,A:LD A,C:ADD A,H:OR A:JP M,JPUZ
LD H,A:LD A,C:OR A:JP M,JBUS
PUSH DE:LD DE,(HEROX+1):CALL HESTFLOOR:POP DE:JR NC,JBUS

FEST LD A,(INFLIVES):OR A:JR NZ,CHT
LD A,(LIVES):OR A:JR Z,LOSEGAME:DEC A:LD (LIVES),A
CHT LD A,48:LD (HEROFLASH+1),A:LD A,18:LD (HEROP+1),A
LD A,2:LD (GUNDIR+1),A:RET
LOSEGAME LD A,LOSELIFE:LD (RETMODE),A:RET

JPUZ LD A,D:SUB C:LD D,A
JPUS LD (HEROX+1),DE:LD (GUNX+1),HL
LD A,(HEROG+1):INC A:CP 7:RET P:LD (HEROG+1),A:RET

DECODE LD A,(GUNDIR+1):INC A:JR Z,DYING
LD A,(ONLADDER+1):OR A:JR NZ,YONL

LD A,(GUNDIR+1):AND 7:LD (GUNDIR+1),A
LD A,(HEROP+1):AND 7:ADD A,24:LD (HEROP+1),A
LD A,$10:LD (XYSUB+1),A

LD A,(HEROF+1):OR A:JR NZ,JOD
HEROCRAWL LD A,0:OR A:JR Z,JOD
NADU LD A,4:LD (BXAD+1),A
JR NODU
JOD LD A,8:LD (BXAD+1),A

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LD A,(HEROX+1):AND $F8:LD (HEROX+1),A
NODU
YONL
LD A,(WEPSELECT):OR A:JR Z,NOWESEL
LD A,(POS):AND 3:JR NZ,NOWESEL
LD A,%11111011:IN A,(254):AND %00010:JR NZ,NOWESEL1
LD A,(WEPTYPE+1):INC A:AND 7:LD (WEPTYPE+1),A
NOWESEL1
LD A,%01111111:IN A,(254):AND %10000:JR NZ,NOWESEL2
LD A,(PAKTYPE+1):INC A:AND 3:LD (PAKTYPE+1),A
NOWESEL2
NOWESEL
LD A,(GUNDIR+1):LD (OLDDIR+1),A
LD A,(FUDLR):AND 15:LD C,A:LD B,0
LD HL,TURNUM:ADD HL,BC:LD A,(HL):OR A:LD C,A
CALL P,TURNERTO
LD A,(FUDLR)
RRA :PUSH AF:CALL C,HERORIGHT:POP AF
RRA :PUSH AF:CALL C,HEROLEFT:POP AF
RRA :PUSH AF:CALL C,HERODOWN:POP AF
RRA :PUSH AF:CALL C,HEROUP
STH
SHIM
LD A,0:OR A:JR Z,SNF
LD A,0:LD (HEROX+2),A:SUB $10:LD (GUNX+2),A
XOR A:LD (STH+1),A
SNF
CALL TOEN:POP AF
PUSH AF:CALL NOFIRE:POP AF
RRA :PUSH AF:CALL C,FIREWEAPON:POP AF
RRA :PUSH AF:CALL C,FIREPAK:POP AF
LD HL,WEPTIMER+1:CALL INCTIM:LD HL,PAKTIMER+1
INCTIM
LD A,(HL):CP 32:RET NC:INC (HL):RET
TOEN
LD A,(MAPDIR):OR A:RET Z:LD DE,(HEROX+1):LD A,D
CP $58+1:JP NC,SCROLLODOWN:CP $40:JP C,SCROLLUP
RET
TU
EQU 0
UR
EQU 1
TR
EQU 2
DR
EQU 3
TD
EQU 4
DL
EQU 5
TL
EQU 6
UL
EQU 7
FF
EQU 255
TURNUM
DB FF,TR,TL,FF
DB TD,DR,DL,TD
DB TU,UR,UL,TU
DB FF,FF,FF,FF
FIREWEAPON
LD HL,FIREWEPJUMPS
WEPTYPE
LD A,0:AND 7
WEPJUMP
ADD A,A:LD E,A:LD D,0:ADD HL,DE
LD E,(HL):INC HL:LD D,(HL):EX DE,HL:JP (HL)
FIREPAK
LD HL,FIREPAKJUMPS
PAKTYPE
LD A,0:AND 3:JR WEPJUMP
FIREWEPJUMPS
DW NORMAL
DW FLAME
DW THREEWAY
DW FULLAUTO
DW SHOTGUN
DW NORMAL
DW NORMAL
FIREPAKJUMPS
DW RETURN
DW NITRO
DW HOMINGMISSILE
DW SHOWER
PAKTIMER
CP 0:JR C,AKFIR:POP HL:RET
AKFIR
XOR A:LD (PAKTIMER+1),A:RET

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WEPTIMER    CP 0:JR C,EPFIR:POP HL:RET
EPFIR       XOR A:LD (WEPTIMER+1),A:RET

NITRO       LD A,7:CALL PAKTIMER
            CALL DECBACK:RET Z
            LD DE,(GUNX+1):LD A,E:ADD A,$10:LD E,A:LD D,16
            LD B,5:LD A,04+16
NITBLP      PUSH DE:PUSH BC:PUSH AF:LD B,5:CALL INITBIL
            POP AF:POP BC:POP DE:ADD A,2:DJNZ NITBLP:RET

HOMINGMISSILE LD A,7:CALL PAKTIMER
            CALL DECBACK:RET Z
            LD DE,(GUNX+1):LD A,D:ADD A,$0C:LD D,A:CALL GETXYOFHERO
            LD B,5:LD A,14+16
HOMBLP      PUSH DE:PUSH BC:PUSH AF:LD B,7:OR 16:CALL INITBUL
            POP AF:POP BC:POP DE:INC A:DJNZ HOMBLP:RET

SHOWER      LD A,7:CALL PAKTIMER
            CALL DECBACK:RET Z
            LD DE,$0028:LD B,8
SHOBLP      PUSH DE:PUSH BC:LD A,8+16:LD B,6:CALL INITBIL
            POP BC:POP DE:LD A,E:ADD A,$18:LD E,A:DJNZ SHOBLP:RET

FLAME       LD A,(PRTFLAMES+1):ADD A,2:CP NOFLAMES+1:JR C,SKPFL
            LD A,NOFLAMES+1
SKPFL       LD (PRTFLAMES+1),A:LD A,3:JP GOBEEP

FULLAUTO    CALL DECAMMO:RET Z
            LD L,1:LD B,1:JR FIREBUL

THREEWAY    LD A,3:CALL WEPTIMER
            CALL DECAMMO:RET Z
            LD DE,(GUNX+1):LD A,E:AND $F8:ADD A,$0F:LD E,A
            LD A,D:ADD A,$0E:LD D,A:PUSH HL:CALL GETXYOFHERO:POP HL
            LD A,(GUNDIR+1):AND 7:ADD A,A:PUSH DE:PUSH AF:OR 16
            LD B,3:CALL INITBIL:POP AF:POP DE:DEC A:AND 15
            PUSH DE:PUSH AF:OR 16:LD B,3:CALL INITBIL:POP AF:POP DE
            ADD A,2:AND 15:OR 16:LD B,3:JP INITBIL

SHOTGUN     LD A,3:CALL WEPTIMER
            CALL DECAMMO:RET Z
            LD L,1:LD B,2:JR FIREBUL

NORMAL      LD A,1:CALL WEPTIMER
            LD L,1:LD B,0

FIREBUL     LD DE,(GUNX+1):LD A,E:AND $F8:ADD A,$0F:LD E,A
            LD A,D:ADD A,$0E:LD D,A
FIRE1       PUSH HL:CALL GETXYOFHERO:POP HL
            LD A,(GUNDIR+1):AND 7:ADD A,A
FIRE2       PUSH BC:PUSH HL:PUSH DE:PUSH AF:CALL INITBUL:POP AF:POP DE
            POP HL:DEC L:POP BC:RET Z:DEC A:AND 15:PUSH BC
            PUSH DE:PUSH AF:CALL INITBUL:POP AF:POP DE:ADD A,2:AND 15
            POP BC:PUSH DE:PUSH AF:CALL INITBUL:POP AF:POP DE:RET

GETXYOFHERO LD A,(GUNDIR+1):CP $FF:RET Z:CP 56:JR C,FKD:SUB 40
FKD         PUSH DE:ADD A,A:LD E,A:LD D,0:LD HL,XYOFSETS
            ADD HL,DE:POP DE:LD A,E:ADD A,(HL):LD E,A:INC HL
            LD A,D:ADD A,(HL):LD D,A:RET

XYOFSETS    DW $F408,$F808,$FA10,$0008; RUN
            DW $0008,$0000,$FAF8,$F800

            DW $EC08,$F408,$F810,$FA10; CLIMB
            DW $0810,$FAF8,$F8FB,$F400

            DW $F810,$0610,$0418,$0810; CRAWL
            DW $1410,$0A00,$0400,$FE00

NOFIRE      LD A,(ONLADDER+1):OR A:RET NZ:CALL DOFALL
GODU        LD A,(BXAD+1):CP 8:RET Z
            LD A,(HEROP+1):AND $07:ADD A,40:LD (HEROP+1),A
            LD A,(GUNDIR+1):AND $07:ADD A,56:LD (GUNDIR+1),A
            JR NOSTEP

DOFALL      LD A,(ONLADDER+1):OR A:RET NZ
            LD A,(HEROG+1):OR A:JP M,JAFT
            LD DE,(HEROX+1):CALL HESTFLOOR
            LD A,(ONLADDER+1):LD C,A:INC C:DEC C:RET NZ
            CALL C,SETFLOOR

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JAFT      LD DE,(HEROX+1):LD HL,(GUNX+1):LD A,(HEROG+1)
          LD C,A:ADD A,D:OR A:JP M,NOFT:LD D,A
          LD A,H:ADD A,C:LD H,A
NOFT      LD A,C:OR A:JP M,JPUP
          CALL HESTFLOOR
          LD A,(ONLADDER+1):LD C,A:INC C:DEC C:RET NZ
          JP C,SETFLOOR
JPUP      LD (HEROX+1),DE:LD (GUNX+1),HL
          XOR A:LD (HEROCRAWL+1),A
          LD A,(HEROP+1):AND 7:ADD A,32:LD (HEROP+1),A
HEROG     LD A,0:INC A:CP 9:JP P,SMOG:LD (HEROG+1),A
SMOG

NOSTEP    LD A,(XYSUB+1):LD E,A
          LD A,(GUNX+2):ADD A,E:SUB $10:LD (GUNX+2),A
          LD A,(BEEPNUM):CP 1:RET NZ:XOR A:LD (BEEPNUM),A:RET

GETMAPBYTE DB 1
MAPX       DB 0
MAPY       DB 0
          PUSH HL:PUSH DE
          LD A,(MAPDIR):OR A:JR Z,NGD
          LD A,E:SUB $10:SRL A:SRL A:SRL A:SRL A:LD E,A
          LD H,0:LD L,B
          RES 0,L:SLA L:RL H:SLA L:RL H:SLA L:RL H

          LD A,B:AND 1:ADD A,A:ADD A,A:ADD A,A:NEG :ADD A,D
          ADD A,$10:CP $C0:JR C,AHA
          NEG :LD C,A:LD A,L:SUB C:LD L,A
          LD A,H:SBC A,0:LD H,A:JR ALA
AHA        CALL ADDHLA
ALA        SRL H:RR L:SRL H:RR L:SRL H:RR L:SRL H:RR L
          LD A,L:JR GETTHEBYTE
NGD        LD A,E:SUB 16:SRL A:SRL A:SRL A:ADD C:SRL A:LD E,A
          LD A,D:AND $F0:ADD A,$10:SRL A:SRL A:SRL A:SRL A
          CP 8:JR NC,NOFLORPOP
GETTHEBYTE LD HL,(MAP):LD D,0:ADD HL,DE:LD DE,(MAPXSIZE)
          CALL MULT:LD A,(HL):POP DE:POP HL:SCF :RET
NOFLORPOP  POP DE:POP HL:XOR A:RET

HEX8      PUSH AF:RRA :RRA :RRA :RRA :CALL HEX4:POP AF
HEX4      PUSH AF:AND $0F:ADD A,"0":CP "9"+1:JR C,HEX1:ADD A,7
HEX1      CALL PRCELL:POP AF:RET

TESTWALL  LD A,(WEPFLRCOL+1):OR A:RET NZ
          CALL GETMAPBYTE:PUSH IX:PUSH BC:LD IX,(FLOORWALLBYTES)
          LD B,(IX+00):INC IX
BLPTW     CP (IX+00):JR Z,TESTYESWAL:INC IX:DJNZ BLPTW
TESTNOWAL POP BC:POP IX:OR A:RET
TESTYESWAL POP BC:POP IX:SCF :RET

ERSC      LD A,D:CP $60:CCF :RET

HESTFLOOR LD C,0:CALL TESTFLOOR:RET NC
TRYSLIDE  PUSH AF
SLID1     CP $FF:JR Z,ONSLIDU
SLID2     CP $FF:JR Z,ONSLIDU
SLID3     CP $FF:JR Z,ONSLIDD
SLID4     CP $FF:JR Z,ONSLIDD
CRAWLPLAT CP $FF:JR Z,ONCRAWLPLAT:POP AF:RET

ONCRAWLPLAT LD A,Z:LD (HEROCRAWL+1),A:POP AF:RET

PX        DW 0

ONSLIDU   PUSH DE:LD DE,(HEROX+1):SRL E:SRL E:SRL E
          LD A,(MAPX):ADD A,E:CPL :JR SMILE
ONSLIDD   PUSH DE:LD DE,(HEROX+1):SRL E:SRL E:SRL E
          LD A,(MAPX):ADD A,E
SMILE     AND 1:ADD A,A:ADD A,A:ADD A,A:LD E,A
          LD A,D:AND $F0:ADD A,E:SUB 8:LD (SHIM+1),A
          POP DE:LD A,1:LD (STH+1),A:POP AF:RET

TESTFLOOR XOR A:LD (ONLADDER+1),A
TASTEFLOOR
WEPFLRCOL LD A,0:OR A:JP NZ,ERSC
          PUSH BC:CALL GETMAPBYTE:POP BC
LAD1      CP $B8:JR Z,TESTYESLAD
LAD2      CP $B9:JR Z,TESTYESLAD
          PUSH IX:PUSH BC:LD IX,(FLOORTESTBYTES)

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LD B,(IX+00):INC IX
BLPTF CP (IX+00):JR Z,TESTYESFLR:INC IX:DJNZ BLPTF
TESTNOFLR POP BC:POP IX:OR A:RET
TESTYESFLR POP BC:POP IX:SCF :RET

TESTYESLAD LD A,C:OR A:SCF :RET NZ

LD A,(HEROX+1):AND $F0:OR 8
LD (HEROX+1),A:LD (GUNX+1),A

LD A,(HEROP+1):AND 7:ADD A,48:LD (HEROP+1),A
LD A,(GUNDIR+1):AND 7:ADD A,8:LD (GUNDIR+1),A
XOR A:LD (HEROG+1),A:LD (HEROF+1),A
INC A:LD (ONLADDER+1),A:SCF :RET

FLOROF EQU 4

SETFLOOR LD A,(MAPY):AND $01:ADD A,A:ADD A,A:ADD A,A:NEG
LD B,A:LD A,D:AND $F0:ADD A,B
ADD A,FLOROF:LD (HEROX+2),A:LD D,A
XYSUB SUB $10:LD (GUNX+2),A
XOR A:LD (HEROF+1),A:LD (HEROG+1),A:RET

HERODOWN
ONLADDER LD A,0:OR A:JR NZ,LADDOWN
LD A,(HEROF+1):OR A:RET NZ
LD A,1:LD (HEROCRAWL+1),A
RET

LADDOWN LD A,0:LD (HEROCRAWL+1),A
LD A,(POS):AND 1:RET NZ
LD A,(HEROX+2):ADD A,8:CP $60+FLOROF:LD (HEROX+2),A
PUSH AF:SUB $10:LD (GUNX+2),A
LD A,(GUNDIR+1):AND 7:CP 5:LD E,0:JR C,KOED:LD E,4
KOED LD A,(HEROP+1):DEC A:AND 3:ADD A,E
ADD A,48:LD (HEROP+1),A

LD DE,(HEROX+1):CALL HESTFLOOR:POP HL
LD A,(ONLADDER+1):OR A:JR Z,SETOFFLAD:PUSH HL

POP AF:RET C

LD A,$50+FLOROF:LD (HEROX+2),A
SUB $10:LD (GUNX+2),A

LD A,(ONLADDER+1):OR A:JP NZ,SCROLLDOWN

SETOFFLAD LD A,(HEROP+1):AND 3:ADD A,16:LD (HEROP+1),A
LD A,(GUNDIR+1):AND 7:LD (GUNDIR+1),A
RET

LADUP LD A,(POS):AND 1:RET NZ
LD A,(HEROX+2):SUB 8:CP $21:LD (HEROX+2),A
PUSH AF:SUB $10:LD (GUNX+2),A
LD A,(GUNDIR+1):AND 7:CP 5:LD E,0:JR C,KOEU:LD E,4
KOEU LD A,(HEROP+1):DEC A:AND 3:ADD A,E
ADD A,48:LD (HEROP+1),A

LD DE,(HEROX+1):CALL HESTFLOOR:POP HL
LD A,(ONLADDER+1):OR A:JR Z,SETOFFLAD:PUSH HL

POP AF:RET NC
LD A,$20:LD (HEROX+2),A
SUB $10:LD (GUNX+2),A
CALL SCROLLUP
LD DE,(HEROX+1):CALL HESTFLOOR:RET C
CALL SETOFFLAD:JR HEROF

HEROUP LD A,(HEROCRAWL+1):CP 2:RET Z
OR A:JR Z,NAFL
LD A,(FUDLR):AND $10:RET NZ
NAFL XOR A:LD (HEROCRAWL+1),A
LD A,(ONLADDER+1):OR A:JR NZ,LADUP
LD A,(FUDLR):AND $10:JP NZ,FIREPAK
HEROF LD A,0:OR A:RET NZ
LD A,(HEROG+1):OR A:RET NZ
LD (HEROCRAWL+1),A:INC A:LD (HEROF+1),A
LD A,-7:LD (HEROG+1),A:RET

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DOSTEPS    LD  A,(HEROP+1):CP 16:RET C:CP 24:RET NC
            AND 3:CP 1:PUSH DE:LD A,1:CALL Z,GOBEEP:POP DE:RET

NOWALK      LD  A,(HEROP+1):AND 7:ADD A,16:LD (HEROP+1),A:RET

HERORIGHT  LD  A,(ONLADDER+1):OR A:RET NZ

            LD  DE,(HEROX+1)
            LD  A,E:ADD A,$10:LD E,A:CALL TESTWALL:RET C
OLDDIR      LD  A,0:AND 7:CP 1:RET C:CP 3+1:RET NC
BXAD        LD  A,0:CP 8:JR Z,HE1
            LD  A,(POS):AND 1:RET NZ

HE1         LD  A,(HEROX+1):ADD 8:CP $D0:JR NC,NFOR:LD (HEROX+1),A
NFOR        CP  $B0:CALL NC,SETSCRRIGHT
            LD  A,(HEROP+1):INC A:AND 3:ADD 16:LD (HEROP+1),A
            CALL DOSTEPS

ESR         WALKTOP  PUSH DE:LD DE,(HEROX+1):LD A,$10:LD (XYSUB+1),A
            LD  A,D:SUB $10:LD D,A
            LD  A,(HEROP+1):AND 3:CP 1:JR NZ,ESD
            LD  A,$0E:LD (XYSUB+1),A:LD A,D:ADD A,2:LD D,A
ESD         LD  (GUNX+1),DE:POP DE:RET
ASR         LD  A,(HEROP+1):AND 7:ADD 16:LD (HEROP+1),A
            JR  WALKTOP

HEROLEFT    LD  A,(ONLADDER+1):OR A:RET NZ

            LD  DE,(HEROX+1)
            LD  A,E:SUB $08:LD E,A:CALL TESTWALL:RET C
            LD  A,(OLDDIR+1):AND 7:CP 5:RET C
            LD  A,(BXAD+1):CP 8:JR Z,HE2
            LD  A,(POS):AND 1:RET NZ

HE2         LD  A,(HEROX+1):SUB 8:CP $18:JR C,NFOL:LD (HEROX+1),A
NFOL        CP  $40:CALL C,SETSCRLLEFT
            LD  A,(HEROP+1):DEC A:AND 3:ADD 20:LD (HEROP+1),A
            CALL DOSTEPS
ESL         JP  WALKTOP

SETSCRLLEFT LD  A,8:LD (SCRCNT+1),A:LD A,255:LD (SCRDIR+1),A:RET
SETSCRRIGHT LD  A,8:LD (SCRCNT+1),A:LD A,1:LD (SCRDIR+1),A:RET

SCRCNT      LD  A,0:OR A:RET Z:DEC A:LD (SCRCNT+1),A
SCRDIR      LD  A,0:OR A:JP P,SCROLLRIGHT:JP SCROLLLEFT

TURNERTO    LD  A,(GUNDIR+1):AND 7:CP C:RET Z
            LD  A,(GUNDIR+1):LD B,A:SUB C:AND 7:CP 4:CCF
            LD  A,0:RLA :ADD A,A:DEC A:ADD A,B:AND 7:LD L,A
            LD  A,B:AND $F8:OR L:LD (GUNDIR+1),A
            AND 7
            CP  5:LD A,1:SBC A,0:ADD A,A:ADD A,A:LD C,A
            LD  A,(HEROP+1):AND $FB:OR C:LD (HEROP+1),A
            OR  128:RET

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*****
; ** DUMP KEYS ONTO BACKGROUND **
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```

NOKEY      EQU 6
KEYX       EQU 0
KEYY       EQU 1
KEYG       EQU 2
KEYP       EQU 3
KEYLEN     EQU 4

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KEYDAT     DS  NOKEY*KEYLEN,0

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INITKEY    LD  IX,KEYDAT:LD B,NOKEY
            PUSH DE:LD DE,KEYLEN

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```

FINDKEYLP  LD  A,(IX+KEYX):OR A:JR Z,GOTKEY
            ADD IX,DE:DJNZ FINDKEYLP
            POP DE:RET

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```

GOTKEY     POP DE:LD (IX+KEYX),E:LD (IX+KEYY),D
            LD  (IX+KEYG),-6

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```

LD (IX+KEYP),0
RET

PRTKEYS LD IX,KEYDAT:LD B,NOKEY
PRTKEYBLP LD A,(IX+KEYX):OR A:JP Z,GONEXTKEY

INC (IX+KEYG):LD E,(IX+KEYX)
LD A,(IX+KEYY):ADD A,(IX+KEYG):LD (IX+KEYY),A:LD D,A

OR A:JP P,SKZD
CP $A0:JR NC,SKZD
CP $90:JR C,SKZD
LD (IX+KEYX),0:JR GONEXTKEY
SKZD PUSH BC:LD C,1:CALL TASTEFL00R:POP BC:JR NC,SKTD

LD (IX+KEYG),-1
LD A,(MAPY):AND 1:ADD A,A:ADD A,A:ADD A,A:NEG :ADD A,D
LD A,D:AND $F0:LD D,A
LD A,(MAPY):AND 1:ADD A,A:ADD A,A:ADD A,A:ADD A,D
NAR LD (IX+KEYY),A
SKTD

INC (IX+KEYP):LD E,(IX+KEYX)
LD A,(IX+KEYY):CP $70:LD D,A
LD A,(IX+KEYP):CALL C,PRT1KEY

LD E,(IX+KEYX):LD D,8
LD HL,(HEROX+1):LD H,16:CALL HITA:JR C,GONEXTKEY
LD E,(IX+KEYY):LD D,16
LD HL,(HEROX+2):LD H,16:CALL HITA:JR C,GONEXTKEY

LD DE,0*256+2:CALL ADDSCORE
LD A,5:CALL GOBEEP

LD (IX+KEYX),0
LD A,(KEYSCOLLECTED+1):CP 6:JR NC,GONEXTKEY
INC A:LD (KEYSCOLLECTED+1),A

GONEXTKEY LD DE,KEYLEN:ADD IX,DE:DEC B:JP NZ,PRTKEYBLP:RET

PRT1KEY PUSH DE:AND 3:LD DE,64:LD HL,KEYSPRS:CALL MULT
POP DE:PUSH DE:PUSH BC:LD BC,$0208:CALL MASKCXB
POP BC:POP DE:RET

MASKCXBINVADD LD A,C:ADD A,A:ADD A,D:LD D,A:DEC D
MASKCXBINV PUSH HL:LD HL,-32:LD (SZ1+2),HL:LD (SZ2+2),HL:POP HL
CALL MASKCXB:LD HL,32:LD (SZ1+2),HL:LD (SZ2+2),HL:RET
MASKCXBMINVADD LD A,C:ADD A,A:ADD A,D:LD D,A:DEC D
MASKCXBMINV PUSH HL:LD HL,-32:LD (MZ1+2),HL:LD (MZ2+2),HL:POP HL
CALL MASKCXB:LD HL,32:LD (MZ1+2),HL:LD (MZ2+2),HL:RET

MASKCXB LD A,D:OR A:RET M
PUSH HL:CALL BIXAD:EX DE,HL:POP HL
MASKCXBCLP PUSH BC
MASKCXBBLP1 LD A,(DE):AND (HL):INC HL:OR (HL):INC HL:LD (DE),A
INC DE:DJNZ MASKCXBBLP1:DEC DE
SZ1 EX DE,HL:LD BC,32:ADD HL,BC:EX DE,HL
POP BC:PUSH BC
MASKCXBBLP2 LD A,(DE):AND (HL):INC HL:OR (HL):INC HL:LD (DE),A
DEC DE:DJNZ MASKCXBBLP2:INC DE
SZ2 EX DE,HL:LD BC,32:ADD HL,BC:EX DE,HL
POP BC:DEC C:JP NZ,MASKCXBCLP:RET

MASKCXB MIR LD A,D:OR A:RET M
LD A,B:DEC A:ADD A,A:ADD A,A:ADD A,A:ADD A,E:LD E,A
PUSH HL:CALL BIXAD:EX DE,HL:POP HL
PUSH BC:LD B,MIRPAGE/256:EXX :POP BC
MASKCXB MIRCLP PUSH BC
MASKCXB MIRBLP1 EXX :LD A,(DE):LD C,A:LD A,(BC):AND (HL):INC HL
OR (HL):LD C,A:LD A,(BC):INC HL:LD (DE),A:DEC DE
EXX :DJNZ MASKCXB MIRBLP1:POP BC:PUSH BC:EXX :INC DE
MZ1 EX DE,HL:LD BC,32:ADD HL,BC:EX DE,HL:LD B,MIRPAGE/256
EXX
MASKCXB MIRBLP2 EXX :LD A,(DE):LD C,A:LD A,(BC):AND (HL):INC HL
OR (HL):LD C,A:LD A,(BC):INC HL:LD (DE),A:INC DE
EXX :DJNZ MASKCXB MIRBLP2:POP BC:EXX :DEC DE
MZ2 EX DE,HL:LD BC,32:ADD HL,BC:EX DE,HL:LD B,MIRPAGE/256
EXX :DEC C:JP NZ,MASKCXB MIRCLP:EXX :RET

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*****
; ** DUMP SPRITES ONTO BACKGROUND **

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;*****
BULDAT      DS    NOBUL*BULLEN,0

INITBLD     SET    6,B:JR    INITBIL
INITMIS     SET    6,B:JR    INITBUL
INITBAL     SET    5,B:JR    INITBUL
INITLAS     SET    5,B
INITBIL     SET    3,B:JR    INITBUL+2
INITBUL     RES    3,B:LD    C,A:PUSH BC:CALL FINDBUL:POP BC:RET NZ
            LD    A,C:LD    (IX+BULP),A:AND 15:LD    HL,XADS:ADD A,L
            LD    L,A:LD    A,(HL):ADD A,E:LD    (IX+BULX),E:LD    A,L
            ADD   A,16:LD    L,A:LD    A,(HL):ADD A,D:LD    (IX+BULY),D
            LD    (IX+BULT),B:LD    A,2:CALL GOBEEP

FINDBUL      LD    IX,BULDAT:LD    B,NOBUL
FINDBLP      LD    A,(IX+BULX):OR    A:JR    NZ,FINDNXT
            OR    (IX+BULY):RET Z
FINDNXT      PUSH DE:LD    DE,BULLEN:ADD IX,DE:POP DE
            DJNZ FINDBLP:INC B:RET

PRTBULLETS

            LD    HL,(BIGX1):LD    A,H:SRL A:ADD A,L:LD    E,A
            LD    HL,(BIGY1):LD    A,H:SRL A:ADD A,L:LD    D,A
            LD    A,(ISBIGON):OR    A:JR    NZ,GOTHOME

            LD    HL,(XSI+1):LD    A,H:SRL A:ADD A,L:LD    E,A
            LD    HL,(YSI+1):LD    A,H:SRL A:ADD A,L:LD    D,A
BAGE         LD    A,0:OR    A:JR    NZ,GOTHOME

            LD    IX,BADDAT:LD    B,NOBAD:LD    DE,BADLEN
FINDH        LD    A,(IX+ACTION):OR    A:JR    Z,TRYH:CP    3:JR    Z,TRYH
            LD    E,(IX+XPOS):LD    D,(IX+YPOS):JR    GOTHOME
TRYH         ADD   IX,DE:DJNZ FINDH

            LD    DE,$0000

GOTHOME      LD    IX,BULDAT:LD    B,NOBUL
PRTBULBLP    PUSH BC:PUSH DE
            LD    A,(IX+BULX):OR    (IX+BULY):JP    Z,NEXT1

            LD    A,D:OR    E:JR    Z,NOTHOME

            LD    A,(IX+BULT):AND 7:CP    7:JR    NZ,NOTHOME
            LD    A,(IX+BULX):CP    E
            LD    A,(IX+BULY):JR    C,HRT
HLT          CP    D:LD    A,0:CCF :ADC A,0:ADD A,A:ADD A,A
            ADD   A,10+16:LD    C,A:JR    HOTO
HRT          CP    D:LD    A,0:ADC A,0:ADD A,A:ADD A,A
            ADD   A,2+16:LD    C,A
HOTO         LD    A,(IX+BULP):CP    C:JR    Z,NOTHOME

            PUSH BC:LD    B,A:SUB C:AND 15:CP    8:CCF
            LD    A,0:RLA :ADD A,A:DEC A:ADD A,B:AND 15:LD    L,A
            LD    A,B:AND $F0:OR    L:LD    (IX+BULP),A:POP BC

NOTHOME

            LD    A,(IX+BULP):AND 15:LD    HL,XADS:ADD A,L:LD    L,A

            LD    A,(IX+BULX):ADD A,(HL):LD    E,A
            LD    A,L:ADD A,16:LD    L,A
            LD    A,(IX+BULY):ADD A,(HL):LD    D,A:OR    A:CALL M,KILLITZ
            LD    A,E
            CP    $18:CALL C,KILLIT
            CP    $E8:CALL NC,KILLIT

            LD    (IX+BULX),E:LD    (IX+BULY),D:LD    A,E:OR    D:JP    Z,NEXT1

            LD    A,(IX+BULT):CP    8:JR    NC,NEXT0

            PUSH DE:LD    A,(IX+BULP):SRL A:AND 3
            LD    HL,BULMASK:LD    DE,16:CALL MULT:POP DE
            LD    A,D:CP    $79:LD    BC,$0104:CALL C,MASKCXB:JP    NEXT1

NEXT0        BIT    6,A:JR    NZ,BALZSP
            BIT    5,A:JP    Z,BILZSP
            BIT    3,A:JR    Z,BLOBALL
            LD    HL,BULLET3X1:LD    A,D:CP    $79:CALL C,BAXITA:JP    NEXT1

COLTAB      DBH    0405060707060504

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BLOBALL      LD  A,(POS):AND 7:LD  HL,COLTAB:ADD A,L:LD  L,A
              ADC A,H:SUB L:LD  H,A:LD  A,(HL):LD  (BLOBATR),A
              LD  HL,BLOB1X1:LD  A,D:CP  $79:CALL C,BAXITA:JP  NEXT1

BALZSP       BIT  3,A:JP  NZ,INITBIG3
              LD  HL,MISSILE:LD  A,(IX+BULP):OR  A:JR  Z,MISUP

MISDN        LD  A,D:ADD A,$0F:LD  D,A:OR  A:JP  M,NEXT1
              CP  $1F:JP  C,NEXT1
              PUSH DE:LD  BC,$0208:CALL MASKCXBINV
              CALL MISSILEANI:POP DE:LD  A,D:SUB $10:LD  D,A
              LD  BC,$0208:CALL MASKCXBINV:JR  NEXT1

MISSILEANI   LD  A,0:LD  HL,MISS1:OR  A:RET  Z:LD  HL,MISS2:RET

MISUP        LD  HL,MISSILE:LD  A,D:SUB 8:LD  D,A:JP  M,NEXT1
              CP  $71:PUSH DE:LD  BC,$0208:CALL C,MASKCXB:POP DE
              CALL MISSILEANI:LD  A,D:ADD A,$10:LD  D,A:CP  $71
              LD  BC,$0208:CALL C,MASKCXB:JR  NEXT1

BILZSP       LD  HL,BULLET3X2:LD  A,D:AND $F8:SUB 4:LD  D,A
              CP  $71:JR  NC,NEXT1:LD  A,E:SUB 4:LD  E,A
              PUSH DE:LD  BC,$0308:CALL MASKCXB:POP DE
              LD  A,E:ADD A,8:LD  E,A:LD  A,D:ADD A,8:LD  D,A
              CALL PIXATRAD
              LD  (HL),$45

BLAD         LD  (HL),$45

NEXT1        LD  DE,BULLEN:ADD IX,DE:POP DE
              POP BC:DEC B:JP  NZ,PRTBULBLP:RET

KILLITZ      BIT  6,(IX+BULT):JR  Z,KILLIT
              CP  $C0:JR  C,EXPLIT
              LD  A,(LEVEL):CP  7:JR  NZ,KILLIT
              LD  D,0:LD  (IX+BULP),8:RET

EXPLIT       LD  A,(IX+BULX):SUB 8:LD  E,A:LD  D,$60
              PUSH IX:CALL INITEXPNO:POP IX

KILLIT       LD  DE,0
              RET

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;*****
; ** PRINT SPRITES **
;*****

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SPRTAB
; 00- 07 = GUN ROTATE (RUN,STAND,JUMP)
              DBH 00010203
              DBH 04838281
; 08- 15 = GUN ROTATE (CLIMB)
              DBH 05060708
              DBH 09888786
; 16- 23 = LEG RIGHT+LEFT
              DBH 0A0B0C0D
              DBH 8D8C8B8A
; 24- 31 = LEG STAND RIGHT+LEFT
              DBH 0E0E0E0E
              DBH 8E8E8E8E
; 32- 39 = LEG JUMP RIGHT+LEFT
              DBH 0F0F0F0F
              DBH 8F8F8F8F
; 40- 47 = LEG CRAWL
              DBH 14151615
              DBH 14151615
; 48- 55 = LEG (CLIMB)
              DBH 10111213
              DBH 90919293
; 56- 63 = GUN ROTATE (CRAWL)
              DBH 1718191A
              DBH 1B1C1D1E
; 64- 75 = BAD1 RUN LEFT
              DBH 8A8B8C8D
              DBH 8F
              DBH 2425262728
              DBH 27
              DBH 2A
; 76- 87 = BAD1 RUN RIGHT
              DBH 0A0B0C0D
              DBH 0F

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        DBH A4A5A6A7A8
        DBH A7
        DBH AA
; 88- 89 = BAD2 GUN TURRET
        DBH 2BAB
; 90- 91 = HERO DIE PHASE
        DBH 2EAE
; 92- 93 = BAD3 BEE PHASE
        DBH 2FAF
; 94- 97 = BAD4 GUN TURRET2+3
        DBH 2CAC2DAD
; 98-101 = BAD5 CLIMB LADDERS
        DBH 30313233
;102-110 = BAD6 CRAWL
        DBH 949596
        DBH B4B5B6
        DBH 343536
;111- =

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;*****

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;          ADDRESS OF SPR      YSIZ,XOF,YOF
SPRINF
        DW HEROWALK1:DB 12,0,-2; WALKTURN
        DW HEROWALK2:DB 12,0,-2
        DW HEROWALK3:DB 12,0,-2
        DW HEROWALK4:DB 12,0,-2
        DW HEROWALK5:DB 12,0,-2
;05
        DW HEROCLIMB1:DB 12,08,-06; CLIMB TURN
        DW HEROCLIMB2:DB 10,08,-02
        DW HEROCLIMB3:DB 11,08,-02
        DW HEROCLIMB4:DB 13,08,-02
        DW HEROCLIMB5:DB 18,08,-02
;10
        DW HEROLEG1:DB 2*4,0,0; WALK
        DW HEROLEG2:DB 2*4,0,0
        DW HEROLEG3:DB 2*4,0,0
        DW HEROLEG4:DB 2*4,0,0
;14
        DW HEROLEG5:DB 2*4,0,0; STAND
;15
        DW HEROLEG6:DB 2*4,0,0; JUMP
;16
        DW HEROLEG7:DB 2*4,0,0; CLIMB 1
        DW HEROLEG8:DB 2*4,0,0
        DW HEROLEG9:DB 2*4,0,0
        DW HEROLEG10:DB 2*4,0,0
;20
        DW HEROLEG11:DB 2*4,-8,4; CRAWL
        DW HEROLEG12:DB 2*4,-8,4
        DW HEROLEG13:DB 2*4,-8,4
;23
        DW HEROCRAWL1:DB 12,08,08; CRAWL TURN
        DW HEROCRAWL2:DB 11,08,12
        DW HEROCRAWL3:DB 10,08,12
        DW HEROCRAWL4:DB 15,08,10
        DW HEROCRAWL5:DB 16,08,12
        DW HEROCRAWL6:DB 13,08,12
        DW HEROCRAWL7:DB 11,08,10
        DW HEROCRAWL8:DB 11,08,10
;31
        DW HEROLEG14:DB 2*4,0,0; BAD1 LEGS WALK
        DW HEROLEG15:DB 2*4,0,0
        DW HEROLEG16:DB 2*4,0,0
        DW HEROLEG17:DB 2*4,0,0
;35
        DW HEROLEG18:DB 2*4,0,0; BAD1 LEG JUMP
;36
        DW BADWALK1:DB 3*4,0,0; BAD1 BODY WALK
        DW BADWALK2:DB 3*4,0,0
        DW BADWALK3:DB 3*4,0,0
        DW BADWALK4:DB 3*4,0,0
        DW BADWALK5:DB 3*4,0,0
;41
        DW BADWALK6:DB 3*4,0,0; BAD1 JUMP
;42
        DW BAD1FALL:DB 5*4,0,0; BAD1 FALL
;43
TUR1    DW 0:DB 3*4,0,0 ; BAD GUN TURRET

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TUR2      DW 0:DB 3*4,0,0
TUR3      DW 0:DB 3*4,0,0
;46
          DW HEROFALL:DB 4*4,0,0-16; HERO DIE PHASE
;47
BEE1      DW 0:DB 5*4,0,0 ; BEE PHASE
;48
BC1       DW 0:DB 11,0,-6 ; BAD CLIMB
BC2       DW 0:DB 10,0,-4
BC3       DW 0:DB 11,0,-6
BC4       DW 0:DB 10,0,-4
;52
BCR1      DW 0:DB 12,16,12 ; BAD CRAWL
BCR2      DW 0:DB 12,16,12 ; BAD CRAWL
BCR3      DW 0:DB 12,16,12 ; BAD CRAWL

;*****

DECAMMO   LD A,(INFAMMO):OR A:RET NZ
AMMOLEFT  LD HL,999:LD A,H:OR L:RET Z
DEC       HL:LD (AMMOLEFT+1),HL:LD A,H:OR L:RET NZ
LD        (WEPTYPE+1),A:RET

DECBACK   LD A,(INFAMMO):OR A:RET NZ
BACKLEFT  LD A,50:OR A:JR Z,SETMFO
DEC       A:LD (BACKLEFT+1),A:INC A:RET
SETMFO    LD (PAKTYPE+1),A:RET

PRTFLAMES LD A,0:PUSH AF
FANNY     LD A,0:XOR 1:LD (FANNY+1),A:LD (FLMCNT+1),A
          PUSH BC:LD HL,FLAMEXYS:LD B,NOFLAMES*2
FFFF      LD (HL),0:INC HL:DJNZ FFFF:POP BC
          POP AF:OR A:RET Z
          DEC A:LD (PRTFLAMES+1),A:RET Z:LD B,A
          CALL DECAMMO:RET Z
          LD IY,FLAMEXYS:LD IX,FLAMEDIR
          LD DE,(HEROX+1):LD A,D:SUB 8:LD D,A:CALL GETXYOFHERO
          LD A,(GUNDIR+1):AND 7:LD HL,JADDS:ADD A,L:LD L,A
          LD A,E:ADD A,(HL):LD E,A:LD A,L:ADD A,8:LD L,A
          LD A,D:ADD A,(HL):LD D,A
PRTFLAMBLP PUSH BC:LD A,(IX+00):INC IX:LD HL,XADDS:ADD A,L:LD L,A
          LD A,(HL):ADD A,E:LD E,A
          LD A,L:ADD A,8:LD L,A
          LD A,(HL):ADD A,D:AND $F8:LD D,A

          LD A,E:CP $E8:JR NC,POPPER
          LD A,D:CP $70:JR NC,POPPER

          PUSH DE:LD HL,FLAMESPR
FLMCNT    LD A,0:XOR 1:LD (FLMCNT+1),A:JR Z,SDX:LD HL,FLAMESPR2
SDX       PUSH DE:LD BC,$030C:CALL MASKCXB:POP DE
          LD A,E:ADD A,8:LD E,A:LD A,D:ADD A,08:LD D,A
          CALL PIXATRAD
FLAMECOL  LD (HL),&162
DEO       POP DE:LD (IY+0),E:LD (IY+1),D:INC IY:INC IY
          POP BC:DJNZ PRTFLAMBLP

ANIFLA    LD HL,FLAMEDIR+NOFLAMES-2:LD DE,FLAMEDIR+NOFLAMES-1
          LD BC,NOFLAMES-1:LDDR
          LD A,(GUNDIR+1):AND 7:LD (FLAMEDIR),A:RET

POPPER    POP BC:LD A,NOFLAMES:SUB B:SUB 2:OR A:JP P,OKF:XOR A
OKF       LD (PRTFLAMES+1),A:JR ANIFLA

;*****

PRTHERO   HEROFLASH LD A,0:OR A:JR Z,HERK:DEC A:LD (HEROFLASH+1),A
EFSSS     LD A,$00:XOR $B6:LD (EFSSS+1),A
HERK      XOR $B6:CALL SMOFSR

          LD A,(GUNDIR+1):AND $F8:CP 8:JR NZ,SKPARM
          LD A,(HEROP+1):AND 3:LD HL,HEROARMS:LD DE,48:CALL MULT
          LD DE,(GUNX+1):LD A,(GUNDIR+1):AND 7:CP 5:JR C,OKSS
          LD A,E:ADD A,$18:LD E,A
          LD A,D:SUB $06:LD D,A:OR A
          LD BC,$010C:CALL P,MASKCXB:JR SKPARM
          JR SKPARM
OKSS      LD A,D:SUB $06:LD D,A:OR A

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LD BC,$010C:CALL P,MASKCXB
SKPARM

HEROX LD DE,$5870
HEROP LD A,18:CALL PRTSPRITE
GUNX LD DE,$4870
GUNDIR LD A,2:CALL PRTSPRITE

LD A,$B6 ; OR (HL)
SMODSPR LD (S1+3),A:LD (S2+3),A:LD (S3+3),A:LD (S4+3),A
LD (S5+3),A:LD (S6+3),A:LD (S7+3),A:LD (S8+3),A
LD (M1+0),A:LD (M2+0),A:LD (M3+0),A:LD (M4+0),A
LD (M5+0),A:LD (M6+0),A:LD (M7+0),A:LD (M8+0),A:RET

PRTSPRITE CP $FF:RET Z
LD C,A:LD B,0:LD HL,SPRTAB:ADD HL,BC:LD A,(HL)
PUSH AF:AND 127:LD C,A:LD B,0:LD HL,SPRINF
ADD HL,BC:ADD HL,BC:ADD HL,BC:ADD HL,BC:ADD HL,BC
LD C,(HL):INC HL:LD B,(HL):INC HL:LD A,(HL):INC HL
LD (PRTSPRBLP-1),A:LD (PRTMIRBLP-1),A:POP AF
PUSH AF:OR A:JP M,BACKWARD
LD A,E:ADD A,(HL):LD E,A:INC HL
LD A,D:ADD A,(HL):LD D,A:JR GOFIT
BACKWARD LD A,E:SUB (HL):LD E,A:INC HL
LD A,D:ADD A,(HL):LD D,A
GOFIT RES 0,D:LD A,D:OR A:JP M,TRYTOP
EXX :LD A,(PRTSPRBLP-1):SLA A:LD B,A
LD A,$80:SUB B:LD B,A:EXX
LD A,D:EXX :CP B:EXX :JR C,OK1:OR A:JP M,RETPOP
LD A,$80:SUB D:SRL A:JR Z,RETPOP:JP M,RETPOP
LD (PRTSPRBLP-1),A:LD (PRTMIRBLP-1),A:JR OK1
RETPOP2 POP AF
RETPOP POP AF:RET
TRYTOP EXX :LD A,(PRTSPRBLP-1):ADD A,A:NEG :LD B,A:EXX
LD A,D:EXX :SUB B:LD B,A:EXX :JR C,RETPOP
JR Z,RETPOP:LD A,D:PUSH AF
LD A,(PRTSPRBLP-1):SLA A:ADD A,D:NEG :LD D,A
EXX :LD A,B:EXX :OR A:JP M,RETPOP2
SRL A:JP Z,RETPOP2
LD (PRTSPRBLP-1),A:LD (PRTMIRBLP-1),A
POP AF:NEG :ADD A,A:ADD A,A:ADD A,A
ADD A,C:LD C,A:ADC A,B:SUB C:LD B,A:LD D,0
OK1 LD L,C:LD H,B:POP AF:OR A:JP M,PRTMIR

PRTSPR PUSH HL:CALL BIXAD:EX DE,HL:POP HL
LD B,5*4

PRTSPRBLP
S1 LD A,(DE):AND (HL):INC HL:OR (HL):INC HL:LD (DE),A
INC DE
S2 LD A,(DE):AND (HL):INC HL:OR (HL):INC HL:LD (DE),A
INC DE
S3 LD A,(DE):AND (HL):INC HL:OR (HL):INC HL:LD (DE),A
INC DE
S4 LD A,(DE):AND (HL):INC HL:OR (HL):INC HL:LD (DE),A
PUSH BC
SD1 LD BC,32:EX DE,HL:ADD HL,BC:EX DE,HL:POP BC
S5 LD A,(DE):AND (HL):INC HL:OR (HL):INC HL:LD (DE),A
DEC DE
S6 LD A,(DE):AND (HL):INC HL:OR (HL):INC HL:LD (DE),A
DEC DE
S7 LD A,(DE):AND (HL):INC HL:OR (HL):INC HL:LD (DE),A
DEC DE
S8 LD A,(DE):AND (HL):INC HL:OR (HL):INC HL:LD (DE),A
PUSH BC
SD2 LD BC,32:EX DE,HL:ADD HL,BC:EX DE,HL:POP BC
DJNZ PRTSPRBLP:RET

PRTMIR PUSH HL:LD A,E:ADD A,$18:LD E,A
CALL BIXAD:EX DE,HL:POP HL
LD B,MIRPAGE/256:EXX :LD B,5*4
PRTMIRBLP EXX
LD A,(DE):LD C,A:LD A,(BC):AND (HL):INC HL
M1 OR (HL):INC HL:LD C,A:LD A,(BC):LD (DE),A:DEC DE
LD A,(DE):LD C,A:LD A,(BC):AND (HL):INC HL
M2 OR (HL):INC HL:LD C,A:LD A,(BC):LD (DE),A:DEC DE
LD A,(DE):LD C,A:LD A,(BC):AND (HL):INC HL
M3 OR (HL):INC HL:LD C,A:LD A,(BC):LD (DE),A:DEC DE
LD A,(DE):LD C,A:LD A,(BC):AND (HL):INC HL
M4 OR (HL):INC HL:LD C,A:LD A,(BC):LD (DE),A
PUSH BC

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MD1      LD BC,32:EX DE,HL:ADD HL,BC:EX DE,HL:POP BC
          LD A,(DE):LD C,A:LD A,(BC):AND (HL):INC HL
M5        OR (HL):INC HL:LD C,A:LD A,(BC):LD (DE),A:INC DE
          LD A,(DE):LD C,A:LD A,(BC):AND (HL):INC HL
M6        OR (HL):INC HL:LD C,A:LD A,(BC):LD (DE),A:INC DE
          LD A,(DE):LD C,A:LD A,(BC):AND (HL):INC HL
M7        OR (HL):INC HL:LD C,A:LD A,(BC):LD (DE),A:INC DE
          LD A,(DE):LD C,A:LD A,(BC):AND (HL):INC HL
M8        OR (HL):INC HL:LD C,A:LD A,(BC):LD (DE),A
          PUSH BC
MD2      LD BC,32:EX DE,HL:ADD HL,BC:EX DE,HL:POP BC
          EXX :DJNZ PRTMIRBLP:EXX :RET

;*****

PRTDOOR   LD E,$10
          LD HL,(WEPROOMX)
          LD A,(MAPX):CP L:RET NZ
          LD A,(MAPY):CP H:RET NZ
          LD A,(LEVEL):CP 8:JP Z,INITBIG4
          LD A,E:OR A
          LD HL,DOORSPPR:LD BC,$0218:LD DE,(DOORXY):JP Z,BAXIT

DOORSIZE  LD IX,PRTDOOR-1:LD DE,(DOORXY):DB 1
          DW $3020
          CALL ISBULINBOX:LD A,(PRTDOOR+1):OR A:RET NZ
          LD DE,(DOORXY):LD A,D:SUB $08:LD D,A
          LD A,E:SUB 8:LD E,A:PUSH DE:CALL INITEXPNOEND:POP DE
          PUSH DE:LD A,D:ADD A,$18:LD D,A:CALL INITEXPNOEND:POP DE
          LD A,D:ADD A,$30:LD D,A:JP INITEXPNOEND

;*****

EXPDAT    DS NOEXP*3,8

EXPDEAD   EQU 4

PRTEXP    LD IX,EXPDAT:LD B,NOEXP
PRTEXPLP  PUSH BC:LD E,(IX+EXPX):LD D,(IX+EXPPY)
          LD A,D:CP $68:JP NC,NXTEXP
          LD A,(IX+EXPP):CP EXPDEAD:JR NC,EXLF
          PUSH DE:LD HL,SHOTEXP1:LD DE,$C0+16:CALL MULT:POP DE

          PUSH DE:LD BC,$0404:CALL MASKCXB:POP DE
          LD A,D:ADD A,8:LD D,A
          PUSH DE:LD BC,$0408:CALL BAXIT:EX DE,HL:POP DE
          LD A,D:ADD A,16:LD D,A
          PUSH DE:LD BC,$0404:CALL MASKCXB:POP DE

          LD A,D:SUB $18:LD D,A:LD BC,$0404:CALL BAXATR

          INC (IX+EXPP)
NXTEXP    POP BC:INC IX:INC IX:INC IX:DJNZ PRTEXPLP:RET
EXLF      LD (IX+EXPPY),$FF:LD (IX+EXPX),0:JR NXTEXP

INITEXP    CALL RAND:LD A,(RND1):AND 24:SUB 24:ADD A,E:LD E,A
          LD A,(RND2):AND 24:SUB 16:ADD A,D:LD D,A
INITEXPNOEND LD A,D:AND $F8:CP $60:JR C,OKINZ
          CP $C0:LD A,$60:JR C,OKINZ:XOR A
OKINZ     LD D,A:PUSH BC:LD IX,EXPDAT:LD B,NOEXP
INEX      LD A,(IX+EXPP):CP EXPDEAD:JR NC,GOT1
          INC IX:INC IX:INC IX:DJNZ INEX:POP BC:RET
GOT1      LD (IX+EXPX),E:LD (IX+EXPPY),D:LD (IX+EXPP),0
          LD A,4:CALL GOBEEP:POP BC:RET

;*****

PRTBARRIER LD HL,1000:LD A,H:OR L:RET Z
          DEC HL:LD (PRTBARRIER+1),HL

BARO      LD A,0:INC A:LD C,A:AND 3:CP 2:JR NZ,MFE:INC C
MFE       LD A,C:LD (BARO+1),A

          LD DE,(HEROX+1):PUSH AF:CALL PRT1BARRIER:LD (BARIER1),DE
          LD DE,(HEROX+1):POP AF:ADD A,8

PRT1BARRIER AND 15:LD C,A:LD B,0
          LD HL,XADS:ADD HL,BC
          LD A,(HL):ADD A,A:ADD A,A:ADD A,E:ADD A,8:LD E,A
          LD HL,YADS:ADD HL,BC

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LD A,(HL):ADD A,A:ADD A,A:ADD A,D:SUB 8:LD D,A
CP $71:RET NC
PUSH DE:LD A,(POS):AND 3:LD DE,64:LD HL,BARRIERSPR
CALL MULT:POP DE
PUSH DE:LD BC,$0208:CALL MASKCXB:POP DE:LD (BARRIER2),DE
RET
BARRIER1 DW 0
BARRIER2 DW 0

;*****
; ** BADDIES PRINT AND MOVE ROUTINES **
;*****
; TOP LINE LEGS
; BOTTOM LINE BODY

BADTYPES
;BAD1 LEFT
DBH 4041424340414243
DBH 4546474849484746
;BAD1 RIGHT
DBH 4C4D4E4F4C4D4E4F
DBH 5152535455545352
;BAD1 JUMP LEFT
DBH 44FFFFFFFFFFFFFF
DBH 4AFFFFFFFF4B4B4B4B
;BAD1 JUMP RIGHT
DBH 50FFFFFFFFFFFFFF
DBH 56FFFFFFFF57575757
;BAD2 GUN PLACEMENT
DBH FFFFFFFFFFFFFFFF
DBH 585E60FF615F59FF
;BEE RIGHT+LEFT
DBH FFFFFFFFFFFFFFFF
DBH 5C5C5C5D5D5D5D5C
;BAD3 CLIMB
DBH 3031323330313233
DBH 6263646562636465
;BAD4 CRAWL
DBH 28292A2B66676867
DBH 6C6D6E6D696A6B6A

ACTIONTAB DW DEAD ; $00
DW RUNRIGHT ; $01
DW RUNLEFT ; $02
DW DIE ; $03
DW FALLON ; $04
DW GUNTURRET ; $05
DW BEE ; $06
DW CLIMBER ; $07
DW CRAWLER ; $08

;*****
CRAWLER LD A,(IX+XPOS):ADD A,(IX+COUNT):LD (IX+XPOS),A
CP $E8:JP NC,SETDEAD
LD A,(IX+PHASE):LD E,A:AND 4:LD D,A
LD A,E:INC A:AND 3:OR D:LD (IX+PHASE),A
RET

;*****
CLIMBER LD A,(MAPY):CP $10:JR NC,MAYO:LD (IX+COUNT),4
MAYO LD A,(IX+YPOS):ADD A,(IX+COUNT):LD (IX+YPOS),A
CP $B0:JR C,EHA:CP $D0:JP C,SETDEAD
EHA LD A,(IX+PHASE):INC A:AND 7:LD (IX+PHASE),A
RET P:CP $B0:RET C:CP $D0:RET NC:JP SETDEAD

;*****
GUNTURRET LD A,(HEROX+1):CP (IX+XPOS):LD A,0:CCF :ADC A,0
ADD A,A:ADD A,A:LD (IX+PHASE),A:LD HL,YBOUNCE
LD A,(POS)
RRA :RRA :RRA :RRA
AND 3:ADD A,L:LD L,A

LD A,(IX+PHASE):INC A:ADD A,(HL):LD (IX+PHASE),A

LD A,(POS):AND %00001111:RET NZ
LD A,(IX+PHASE):AND 4:JR Z,QED:LD A,$18
QED ADD A,(IX+XPOS):LD E,A

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LD A,(IX+YPOS):AND $F8:SUB 8:LD D,A

LD A,(IX+PHASE):RRA :RRA :CPL :AND 1
ADD A,A:ADD A,A:ADD A,A:ADD A,4:SUB (HL)
PUSH IX:LD B,4:CALL INITBAL:POP IX:RET

;*****

RESETBAD
CALL RESETLEVELBAD
XOR A:LD (PRTFLAMES+1),A:LD (STH+1),A
LD (SCRCNT+1),A:LD (NOScroll+1),A
INC A:LD (SMODHERO+1),A
LD A,16:LD (PRTDOOR+1),A
XOR A:LD IX,BADDAT:LD DE,BADLEN:LD B,NOBAD
RESBAD LD (IX+ACTION),A:ADD IX,DE:DJNZ RESBAD
LD IX,BULDAT:LD DE,BULLEN:LD B,NOBUL
RESBUL LD (IX+BULX),A:LD (IX+BULY),A:ADD IX,DE:DJNZ RESBUL
LD IX,EXPDAT:LD DE,EXPLEN:LD B,NOEXP
RESEXP LD (IX+EXPP),EXPDEAD:ADD IX,DE:DJNZ RESEXP
LD IX,KEYDAT:LD DE,KEYLEN:LD B,NOKEY
RESKEY LD (IX+KEYX),A:ADD IX,DE:DJNZ RESKEY
LD IX,WAPXYS:LD DE,5:LD B,6
RESWEP LD (IX+02),$FF:ADD IX,DE:DJNZ RESWEP
RET

;*****

MOVEBAD LD IX,BADDAT:LD B,NOBAD
MOVEADBLP PUSH BC:CALL RAND:LD A,(IX+ACTION)
ADD A,A:LD E,A:LD D,0:LD HL,ACTIONTAB:ADD HL,DE
LD E,(HL):INC HL:LD D,(HL):EX DE,HL:CALL JPHL
POP BC:LD DE,BADLEN:ADD IX,DE:DJNZ MOVEADBLP:RET

JPHL JP (HL)

DEAD RET

;*****

RUNRIGHT LD A,(IX+XPOS):ADD A,8:LD (IX+XPOS),A:JP C,SETDEAD
LD B,02
TESTAGAINSTMAP LD E,(IX+XPOS):LD D,(IX+YPOS)
PUSH BC:LD C,2:CALL TESTFLOOR:POP BC:JR NC,SETJUMP
LD E,(IX+XPOS):LD D,(IX+YPOS)
LD A,(MAPX):ADD A,B:LD (MAPX),A
PUSH BC:LD C,2:CALL TESTWALL:POP BC
PUSH AF:LD A,(MAPX):SUB B:LD (MAPX),A:POP AF
JR NC,OKRUN
SETJUMP LD (IX+COUNT),-8
JUMPSET LD (IX+ACTION),4:SET 1,(IX+TYPE):LD (IX+PHASE),0
RES JUMPBIT,(IX+TEMP):RET
SETDROP LD (IX+COUNT),0:JR JUMPSET
OKRUN LD A,(IX+PHASE):INC A:AND 7:LD (IX+PHASE),A:RET

RUNLEFT LD A,(IX+XPOS):SUB 8:LD (IX+XPOS),A:JP C,SETDEAD
LD B,-2:JP TESTAGAINSTMAP

;*****

FALLON LD A,(IX+YPOS):ADD A,(IX+COUNT):JP M,SKPFON
LD (IX+YPOS),A
SKPFON BIT JUMPBIT,(IX+TEMP):JR NZ,JOSEFAT
LD A,(IX+COUNT):OR A:JP M,NESCAFE
JOSEFAT LD A,(IX+TYPE):AND 1:ADD A,A:DEC A
ADD A,A:ADD A,A:ADD A,A:ADD A,(IX+XPOS)
CP $E8:JP NC,SETDEAD
LD E,(IX+XPOS):PUSH DE
LD (IX+XPOS),A:LD E,A:LD D,(IX+YPOS)
LD C,2:CALL TESTWALL:POP DE:JR NC,NESCAFE
LD (IX+XPOS),E
NESCAFE INC (IX+COUNT):RET M
LD E,(IX+XPOS):LD D,(IX+YPOS)
LD C,2:CALL TESTFLOOR:RET NC
LD A,(IX+YPOS):AND $F0:ADD A,FLOROF:LD (IX+YPOS),A
LD A,(IX+TYPE):DEC A:AND 1:INC A:LD (IX+ACTION),A
RES 1,(IX+TYPE):LD (IX+PHASE),4
LD A,1:JP GOBEEP

;*****

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BEE      LD  A,(IX+PHASE):LD  HL,XADD5:ADD  A,L:LD  L,A:LD  E,(HL)
        ADD  A,8:LD  L,A:LD  D,(HL)
        LD  A,(IX+XPOS):ADD  A,E:LD  (IX+XPOS),A:LD  E,A
        LD  A,(IX+YPOS):ADD  A,D:LD  (IX+YPOS),A:LD  D,A
        LD  A,(RND2):AND  %10101010:JR  NZ,FNES

        LD  A,(IX+PHASE):ADD  A,2:ADD  A,A
        PUSH IX:LD  B,4:CALL  INITBAL:POP  IX

FNES      DEC  (IX+COUNT):RET  NZ:LD  (IX+COUNT),5
        LD  A,(IX+PHASE):INC  A:AND  7:LD  (IX+PHASE),A:RET

;*****

SETBANGDEAD  LD  E,(IX+XPOS):LD  A,(IX+YPOS):SUB  $10:LD  D,A
        PUSH IX:PUSH BC:CALL  INITEXPND:POP  BC:POP  IX
SETDEAD      LD  (IX+ACTION),0:LD  (IX+XPOS),$FF:LD  (IX+YPOS),$FF:RET

;*****

SETFALL      PUSH HL:PUSH DE:LD  A,6:CALL  GOBEEP:POP  DE:POP  HL

        BIT  KEYBIT,(IX+TEMP):JR  Z,NOKEYIZ
        PUSH IX:PUSH DE:PUSH BC:LD  DE,0*256+5:CALL  ADDSCORE
        LD  E,(IX+XPOS):LD  D,(IX+YPOS):CALL  INITKEY
        POP  BC:POP  DE:POP  IX

NOKEYIZ      LD  A,(IX+ACTION):CP  5:JR  C,NOTBANGDEAD
        CP  8+1:JR  C,SETBANGDEAD
NOTBANGDEAD  LD  (IX+ACTION),3:LD  (IX+COUNT),-3
        LD  A,(IX+TYPE):CP  4:RET  Z
        SET  2,(IX+PHASE):RET  NC:SET  1,(IX+TYPE):RET

;*****

DIE          LD  A,(IX+YPOS):ADD  A,(IX+COUNT):LD  (IX+YPOS),A
        CP  $C0:JR  NC,NOSD
        CP  $90:JP  NC,SETDEAD
NOSD         INC  (IX+COUNT):RET

;*****

PRTBADDIES   LD  IX,BADDAT:LD  B,NOBAD
PRTBADBLP    PUSH BC:LD  A,(IX+ACTION):OR  A:JP  Z,PRTNXTBAD
        LD  A,(IX+XPOS):CP  $E8:JR  NC,PRTNXTBAD

        LD  A,(IX+TYPE):ADD  A,A:ADD  A,A:ADD  A,A:ADD  A,A
        ADD  A,(IX+PHASE):LD  E,A:LD  D,0:LD  HL,BADTYPES
        ADD  HL,DE:LD  A,(HL):PUSH HL
        LD  E,(IX+XPOS):LD  D,(IX+YPOS):CALL  PRTPRITE
        POP  HL:LD  DE,8:ADD  HL,DE
        LD  E,(IX+XPOS):LD  A,(IX+YPOS):SUB  $10:LD  D,A
        LD  A,(HL):CALL  PRTPRITE

        LD  A,(IX+ACTION):CP  6:CALL  Z,INITBIG4

        LD  A,(IX+ACTION):CP  5:JR  NZ,PRTNXTBAD
TANKATRS     LD  HL,0:LD  E,(IX+XPOS):LD  A,(IX+YPOS)
        SUB  $10:LD  D,A:CP  $70:JR  NC,PRTNXTBAD
OKT2         LD  A,(IX+PHASE):AND  4:JR  Z,ARTS:LD  BC,12:ADD  HL,BC
ARTS         LD  BC,$0403:CALL  BAXATR
PRTNXTBAD    POP  BC:LD  DE,BADLEN:ADD  IX,DE:DEC  B:JP  NZ,PRTBADBLP
        XOR  A:LD  ($5AFF),A
        RET

;*****

TRYINITBAD   LD  E,A
BADDATA      LD  HL,0
        CP  (HL):RET  NZ
        INC  HL:LD  A,(HL):INC  HL:LD  (BADDATA+1),HL
GOINITBADA   OR  A:JP  M,INITBIG
        LD  C,A:CALL  FINDDEAD:RET  NZ:LD  A,C:JP  INITBADA

INITBIG      CP  POKE:JR  NZ,NOTPOKE
        CALL  GETDATA:LD  E,A:CALL  GETDATA:LD  D,A:CALL  GETDATA
        LD  (DE),A:RET
NOTPOKE      CPL  :ADD  A,A:LD  E,A:LD  D,0
        LD  HL,BIGINITS:ADD  HL,DE:LD  E,(HL):INC  HL:LD  D,(HL)

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```

EX DE,HL:JP (HL)

BIGINITS DW INITBIG1 ; $FF
          DW INITBIG2 ; $FE
          DW INITBIG3 ; $FD
          DW INITBIG4 ; $FC
          DW SETCONTSR ; $FB

SETCONTSR CALL GETDATA:LD (CONTSROLL+1),A:LD (NOSROLL+1),A:RET

FINDDEAD LD IX,BADDAT:LD DE,BADLEN:LD B,NOBAD:XOR A
SEARCH CP (IX+ACTION):RET Z:ADD IX,DE:DJNZ SEARCH:INC B:RET

INITBADA ADD A,A:LD E,A:LD D,0
          LD HL,BADINITS:ADD HL,DE:LD E,(HL):INC HL:LD D,(HL)
          EX DE,HL:JP (HL)

BADINITS DW JMPINLEFT ; $00
          DW INLEFT ; $01
          DW JMPINRIGHT ; $02
          DW INRIGHT ; $03
          DW INGUNR ; $04
          DW INGUNL ; $05
          DW INBEER ; $06
          DW INBEEL ; $07
          DW CLIMBS ; $08
          DW CLIMB1 ; $09
          DW CRAWLS ; $0A

CRAWLS CALL GETDATA:LD (IX+XPOS),A
        CALL GETDATA:LD (IX+YPOS),A
        CALL GETDATA:LD (IX+COUNT),A
        LD (IX+TEMP),0:LD (IX+PHASE),0
        OR A:JP P,AFTER:LD (IX+PHASE),4
AFTER LD (IX+TYPE),7:LD (IX+ACTION),8:RET

CLIMB1 CALL GETDATA
        LD C,A:LD B,1:LD DE,$90A8:JR CDS
CLIMBS CALL GETDATA:LD C,A
        LD B,4:LD DE,$0028:OR A:JP P,CDS:LD D,$90
CDS CALL GETDATA
CLIMBDOWN LD (IX+XPOS),E:LD (IX+YPOS),D
          LD (IX+COUNT),C:LD (IX+TEMP),A
          LD (IX+TYPE),6:LD (IX+PHASE),0
          LD (IX+ACTION),7

          PUSH AF:LD A,E:ADD A,$30:LD E,A
          PUSH DE:PUSH BC:CALL FINDDEAD:POP BC:POP DE:JR NZ,NCD
          POP AF:DJNZ CLIMBDOWN:RET
NCD POP AF:RET

INBEER LD DE,$88F0:LD A,6:JR INBEE
INBEEL LD DE,$10F0:LD A,2
INBEE LD (IX+XPOS),E:LD (IX+YPOS),D
        LD (IX+TYPE),5:LD (IX+PHASE),A:LD (IX+TEMP),0
        LD (IX+ACTION),6:LD (IX+COUNT),16+(5/2):RET

GETDATA LD HL,(BADDATA+1):LD A,(HL):INC HL:LD (BADDATA+1),HL
        RET

INGUNL CALL GETDATA:LD (IX+XPOS),A:CALL GETDATA:LD (IX+YPOS),A
        LD (IX+TEMP),0
        LD (IX+ACTION),5:LD (IX+TYPE),4:LD (IX+PHASE),4:RET
INGUNR CALL GETDATA:LD (IX+XPOS),A:CALL GETDATA:LD (IX+YPOS),A
        LD (IX+TEMP),0
        LD (IX+ACTION),5:LD (IX+TYPE),4:LD (IX+PHASE),0:RET

JMPINLEFT CALL GETDATA:LD (IX+YPOS),A:LD (IX+XPOS),$E0
          CALL GETDATA:LD (IX+TEMP),A
          LD (IX+ACTION),4:LD (IX+TYPE),2:LD (IX+PHASE),0
          LD (IX+COUNT),-4:SET JUMPBIT,(IX+TEMP):RET
INLEFT CALL GETDATA:LD (IX+YPOS),A
        CALL GETDATA:LD (IX+TEMP),A
        LD (IX+XPOS),$E0:LD (IX+ACTION),2
        LD (IX+TYPE),0:LD (IX+PHASE),0:RET

JMPINRIGHT CALL GETDATA:LD (IX+YPOS),A:LD (IX+XPOS),$08
          CALL GETDATA:LD (IX+TEMP),A
          LD (IX+ACTION),4:LD (IX+TYPE),3:LD (IX+PHASE),0
          LD (IX+COUNT),-4:SET JUMPBIT,(IX+TEMP):RET

```

```

INRIGHT      CALL GETDATA:LD  (IX+YPOS),A:LD  (IX+XPOS),$08
              CALL GETDATA:LD  (IX+TEMP),A
              LD  (IX+ACTION),1:LD  (IX+TYPE),1:LD  (IX+PHASE),0:RET

;*****
;** DODGY COLISH ROUTINES                                     **
;*****

ISHEROINBOX  LD  H,C:LD  L,E:LD  (XSI+1),HL
              LD  H,B:LD  L,D:LD  (YSI+1),HL:JR  ISHEROINBOX2

ISBULORHERO  CALL ISBULINBOX

ISHEROINBOX2 LD  A,(HEROFLASH+1):OR  A:RET  NZ
              LD  A,(GUNDIR+1):CP  $FF:RET  Z
              LD  DE,(HEROOFSET):LD  A,(HEROSIZE):LD  D,A
              LD  HL,(XSI+1):CALL HITA:RET  C
              LD  DE,(HEROOFSET+1):LD  A,(HEROSIZE+1):LD  D,A
              LD  HL,(YSI+1):CALL HITA:RET  C
              PUSH IX:CALL SETHERODIE:POP  IX:RET

ISBULINBOX   LD  IY,BULDAT
              LD  A,(SPACEBARCHEAT):OR  A:JR  Z,NOSPACEBAR
              LD  A,127:IN  A,(254):RRA  :JR  C,NOSPACEBAR
              LD  A,254:IN  A,(254):RRA  :JR  NC,NOSPACEBAR
              LD  (IX+02),0:RET

NOSPACEBAR   LD  A,1:LD  (BAGE+1),A
              LD  H,C:LD  L,E:LD  (XSI+1),HL
              LD  H,B:LD  L,D:LD  (YSI+1),HL
              LD  B,NOBUL

ISBULBLP     LD  A,(IY+BULT):AND  7:CP  4:JR  Z,NEXTIS
              LD  E,(IY+BULX):LD  D,$07
              LD  A,(IY+BULY):OR  E:JR  Z,NEXTIS

XSI           LD  HL,$001F:CALL HITA:JR  C,NEXTIS
              LD  E,(IY+BULY):LD  D,$07

YSI           LD  HL,$000F:CALL HITA:JR  C,NEXTIS
              LD  A,(IY+BULT):AND  7:LD  L,A:DB  62

WEPPPOWER    DB  0
              OR  A:JR  Z,NOSUPER:SLA  L

NOSUPER      LD  A,L:CALL BULISINBOX

NEXTIS       LD  DE,BULLEN:ADD  IY,DE:DJNZ ISBULBLP

              LD  HL,(PRTBARRIER+1):LD  A,H:OR  L:JR  Z,NOTBAR2
              LD  IY,BARRIER1:LD  C,Z

BARDODGE2    LD  E,(IY+00):LD  D,$0F
              LD  HL,(XSI+1):CALL HITA:JR  C,NEXTDZDGCY
              LD  E,(IY+01):LD  D,$0F
              LD  HL,(YSI+1):CALL HITA:JR  C,NEXTDZDGCY
              LD  A,16:CALL BULISINBOX

NEXTDZDGCY   INC  IY:INC  IY:DEC  C:JP  NZ,BARDODGE2
NOTBAR2

              LD  IY,FLAMEXYS:LD  B,NOFLAMES

DAGGEBLP3    LD  E,(IY+0):LD  D,$0F
              LD  A,(IY+1):OR  E:OR  A:JR  Z,FANZ
              LD  HL,(XSI+1):CALL HITA:JR  C,NEXTDAGGEB3
              LD  E,(IY+1):LD  D,$0F
              LD  HL,(YSI+1):CALL HITA:JR  C,NEXTDAGGEB3
              LD  A,NOFLAMES+1:SUB  B:LD  (PRTFLAMES+1),A
              LD  A,17:CALL BULISINBOX
              JR  FANZ

NEXTDAGGEB3  LD  DE,2:ADD  IY,DE:DJNZ DAGGEBLP3
FANZ         RET

BULISINBOX   PUSH AF
              PUSH IX:PUSH BC:LD  E,(IY+BULX):LD  D,(IY+BULY):CALL INITEXP
              POP  BC:POP  IX:LD  DE,0*256+1:CALL ADDSCORE
              POP  AF
              LD  HL,DAMAGETAB:CALL ADDHLA
              LD  A,(IX+02):OR  A:RET  Z
              LD  A,(IX+02):SUB  (HL):JR  NC,NOCAR:XOR  A

NOCAR        LD  (IX+02),A
              LD  (IY+XPOS),0:LD  (IY+YPOS),0:RET

ADHHLA       ADD  A,L:LD  L,A:ADC  A,H:SUB  L:LD  H,A:RET

;*****

DODGYCOLISH  LD  IX,BADDAT:LD  B,NOBAD
DODGYBLP     LD  A,(IX+ACTION):OR  A:JP  Z,NEXTDODGYBA

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CP      3:JP      Z,NEXTDODGYBA

LD      L,(IX+XPOS):LD      H,$1F:LD      (BAX+1),HL
CP      5:JR      Z,NAZ
CP      8:JR      Z,NUZ
LD      A,(IX+YPOS):SUB      $10:LD      L,A:LD      H,$1F:LD      (BAY+1),HL
JR      NAY
NAZ     LD      A,(IX+YPOS):SUB      $10:LD      L,A:LD      H,$0F:LD      (BAY+1),HL
JR      NAY
NUZ     LD      L,(IX+YPOS):LD      H,$0F:LD      (BAY+1),HL
NAY

LD      HL,(PRTBARRIER+1):LD      A,H:OR      L:JR      Z,NOTBARI
LD      IY,BARRIER1:LD      C,2
BARDODGE LD      E,(IY+00):LD      D,$0F
BAX     LD      HL,0:CALL      HITA:JR      C,NEXTDODGKY
LD      E,(IY+01):LD      D,$0F
BAY     LD      HL,0:CALL      HITA:JR      C,NEXTDODGKY
LD      DE,0*256+5:CALL      ADDSCORE
CALL      SETFALL
NEXTDODGKY INC      IY:INC      IY:DEC      C:JP      NZ,BARDODGE
NOTBARI

LD      IY,BULDAT:LD      C,NOBUL
DODGYCLP LD      A,(IY+BULT):AND      7:CP      4:JR      Z,NEXTDODGKY
LD      E,(IY+BULX):LD      A,E:OR      (IY+BULY):JR      Z,NEXTDODGKY
LD      D,7:LD      HL,(BAX+1):CALL      HITA:JR      C,NEXTDODGKY
LD      E,(IY+BULY):LD      D,$07
LD      HL,(BAY+1):CALL      HITA:JR      C,NEXTDODGKY
LD      (IY+BULX),0:LD      (IY+BULY),0
LD      DE,0*256+5:CALL      ADDSCORE:CALL      SETFALL
LD      A,(WEPTYPE+1):CP      4:JR      NZ,NEXTDODGYB
LD      E,(IX+XPOS):LD      D,(IX+YPOS)
PUSH      IX:PUSH      BC:CALL      INITEXP:POP      BC:POP      IX:JR      NEXTDODGYB
NEXTDODGKY LD      DE,BULLEN:ADD      IY,DE:DEC      C:JP      NZ,DODGYCLP
NEXTDODGYB

LD      IY,FLAMEXYS:LD      C,NOFLAMES
DADGYCLP LD      A,(PRTFLAMES+1):OR      A:JR      Z,NEXTDADGYB
LD      A,(IY+0):OR      (IY+1):JR      Z,NEXTDADGYB
LD      E,(IY+0):LD      D,8
LD      HL,(BAX+1):CALL      HITA:JR      C,NEXTDADGYB
LD      E,(IY+1):LD      D,8
LD      HL,(BAY+1):CALL      HITA:JR      C,NEXTDADGYB
LD      DE,0*256+5:CALL      ADDSCORE
CALL      SETFALL
LD      A,NOFLAMES:SUB      C:LD      (PRTFLAMES+1),A
JR      NEXTDADGYB
NEXTDADGYC LD      DE,2:ADD      IY,DE:DEC      C:JP      NZ,DADGYCLP
NEXTDADGYB

NEXTDODGYBA LD      DE,BADLEN:ADD      IX,DE:DEC      B:JP      NZ,DODGYBLP

; *****
DODGEBIG DB      6Z
ISBIGON DB      0
OR      A:JP      Z,HAR1:DB      17
BIGX1 DW      0
LD      C,D:DB      33
BIGY1 DW      0
LD      B,H:LD      D,L:PUSH      IX:LD      IX,BIGHITS-2
CALL      ISBULINBOX:POP      IX:DB      62
BIGHITS DB      0
OR      A:CALL      Z,KILLBIG
HAR1

; *****
NEXTYDODGE LD      A,(HEROFLASH+1):OR      A:JP      NZ,NEXTDUDGE
LD      A,(GUNDIR+1):CP      $FF:JP      Z,NEXTDUDGE

LD      HL,$1C0F:LD      A,(GUNDIR+1):CP      56:LD      A,$F0:JR      C,ONE
LD      HL,$0F1F:XOR      A
ONE     LD      (HEROSIZE),HL
LD      HL,(HEROX+1):ADD      A,H:LD      H,A
LD      A,L:ADD      A,8:LD      L,A
LD      (HEROOFSET),HL

```

```

LD IY,BULDAT:LD B,NOBUL
EFJM LD A,(IY+BULT):AND 7:CP 4:JR NZ,NEXTDIDGYH
LD E,(IY+BULX):LD D,$08
LD A,E:OR (IY+BULY):JR Z,NEXTDIDGYH
LD HL,(HEROOFSET):LD A,(HEROSIZE):LD H,A
CALL HITA:JR C,NEXTDIDGYH
LD E,(IY+BULY):LD D,$08
LD HL,(HEROOFSET+1):LD A,(HEROSIZE+1):LD H,A
CALL HITA:JR C,NEXTDIDGYH
LD (IY+BULX),0:LD (IY+BULY),0
CALL SETHERODIE:JR NEXTDUDGE
NEXTDIDGYH LD DE,BULLEN:ADD IY,DE:DJNZ EFJM

```

```

LD IY,BADDAT:LD B,NOBAD
EFKM LD A,(IY+ACTION):OR A:JR Z,NXTDIDGEH
CP 3:JR Z,NXTDIDGEH
LD E,(IY+XPOS):LD D,$1F
LD HL,(HEROOFSET):LD A,(HEROSIZE):LD H,A
CALL HITA:JR C,NXTDIDGEH
LD E,(IY+YPOS):LD D,$0F
LD HL,(HEROOFSET+1):LD A,(HEROSIZE+1):LD H,A
CALL HITA:JR C,NXTDIDGEH
CALL SETHERODIE:JR NEXTDUDGE
NXTDIDGEH LD DE,BADLEN:ADD IY,DE:DJNZ EFKM

```

```

HERODODGEBIG LD A,(ISBIGON):OR A:JR Z,HAR2
LD DE,(BIGX1)
LD HL,(HEROOFSET):LD A,(HEROSIZE):LD H,A
CALL HITA:JR C,HAR2
LD DE,(BIGY1)
LD HL,(HEROOFSET+1):LD A,(HEROSIZE+1):LD H,A
CALL HITA:JR C,HAR2
CALL SETHERODIE
HAR2

```

```

NEXTDUDGE
RET

```

```

HEROOFSET DW 0
HEROSIZE DW 0

```

```

SETHERODIE
; LD A,(INFLIVES):OR A:RET NZ
LD A,(GUNDIR+1):INC A:RET Z

LD A,$FF:LD (GUNDIR+1),A
LD A,(HEROP+1):AND 4:RRA :RRA :ADD A,90:LD (HEROP+1),A
LD A,-9:LD (HEROG+1),A

```

```

LD A,(KEYSCOLLECTED+1):LD B,A:LD HL,OKFES
OR A:JR Z,NODROPKEY
KDEIFTH LD A,(HL):INC HL:PUSH HL:PUSH BC
LD DE,(HEROX+1):ADD A,E:LD E,A:CALL INITKEY
POP BC:POP HL:DJNZ KDEIFTH
XOR A:LD (KEYSCOLLECTED+1),A

```

```

NODROPKEY LD IX,WAPXYS
LD A,(WEPTYPE+1):OR A:JR Z,NOWEPE

LD DE,WAPT-1:CALL STIT
LD DE,(AMMOLEFT+1):LD (WEPAMOUNT),DE
LD DE,0:LD (AMMOLEFT+1),DE:XOR A:LD (WEPTYPE+1),A

```

```

NOWEPE INC HL
LD A,(PAKTYPE+1):OR A:JR Z,NOWEPE

LD DE,BAPT-1:CALL STIT
LD A,(BACKLEFT+1):LD (PAKAMOUNT),A
XOR A:LD (BACKLEFT+1),A:LD (PAKTYPE+1),A

```

```

NOPEPE XOR A:LD (WEPPower),A
LD L,A:LD H,A:LD (PRTBARRIER+1),HL:RET

```

```

STIT PUSH DE:PUSH AF

```



```

LD DE,(HEROX+1):LD A,D:SUB 16:LD (IX+01),A
LD A,(HL):ADD A,E:RRA :RRA :RRA :AND 31:LD E,A
LD A,(LEVEL):CP 7:JR NZ,ZZ1
LD A,(HEROX+1):ADD A,(HL):LD (IX+00),A:JR ZZ2
LD A,(MAPX):ADD A,E:LD (IX+00),A
ZZ1 POP AF:POP DE:ADD A,E:LD E,A:ADC A,D:SUB E:LD D,A
ZZ2 LD A,(DE):LD (IX+02),A
LD (IX+03),-6
LD (IX+04),0
LD DE,5:ADD IX,DE:RET

```

```

OKFES DB $20,$F0,$28,$E8,$30,$E0,$38,$D8
WAPT DB 2,1,0,3
BAPT DB 5,7,6

```

```

;*****
;
; ** GRAFIX **
;*****

```

```

KEYSPRS DBH F8001F000F00F000E00707E00310C008
DBH 8010012800940021002300C400840021
DBH 801001080390C008E004072007A0E004
DBH E00407A00F40F002F8011F803F00FC00
DBH FC003F001F00F800F0030FC00720E004
DBH C0080350012880118011018801888010
DBH C008031007A0E004E004072007A0E004
DBH E00407A00F40F002F8011F803F00FC00
DBH FE007F003F00FC00F8011F800F40F002
DBH E00407A007A0E004E00407200720E004
DBH E004072007A0E004E004072007A0E004
DBH E00407A00F40F002F8011F803F00FC00
DBH FC003F001F00F800F0030FC00720E004
DBH C008035001A880108011018801088011
DBH C008031007A0E004E004072007A0E004
DBH E00407A00F40F002F8011F803F00FC00

```

```

DOORSPR DBH 408F22707C08027F7F40207F7F542A7F
DBH 7F552A7F7F552A7F7F552A7F7F552A7F
DBH 7F552A7F7F552A7F7F552A7F7F552A7F
DBH 7F552A7F7F552A7F7F552A7F7F552A7F
DBH 7F552A7F7F552A7F7F552A7F7F552A7F
DBH 1F552A8F53552AA884000042C0000000

```

```

BULMASK DBH 87000300033003300330033008700
DBH FF00E300C108811C0138037007208F00
DBH FF00810000000003C003C00008100FF00
DBH FF00C70083108138801CC00EE004F100

```

```

BLOB1X1 DB 1,1*8
DB %10000001
DB %00111100
DB %01111110
DB %01111110
DB %01111110
DB %01111110
DB %01111110
DB %00111100
DB %10000001
BLOBATR DBH 43

```

```

MISSILE DBH FE007F003F80FC01F8021F400FA0F004
DBH F0040F200750E008E00807500750E008
DBH E00807500750E008E00807500750E008
DBH E008071003A8C01080280114000A0050

```

```

MISS1 DBH 0050000A000200408038013C03C0C017
DBH 802F03E801F4005300A700DA00E2004F
DBH 803701D403E8C00BE00B07D007D0F005
DBH F0050FA01F40F802FC013F807F00FE00

```

```

MISS2 DBH 0050000A000200408038013C0320C00B
DBH C01707D00FA0E00BE00B0FA01F40F005
DBH F8023F807F00FC01FE00FF00FF00FF00
DBH FF00FF00FF00FF00FF00FF00FF00FF00

```

```

BULLET3X2 DBH FF00C300FF00FF00003CFF00FE0000C3
DBH 7F003F80001CFC01F802007F1F401F40
DBH 00BFF802F004007F0FA00FA0003FF004
DBH F004005F0FA00FA0002AF004F8020014
DBH 1F401F400000F802FC0100003F807F00
DBH 00C3FE00FF00003CFF00FF00C300FF00

```

BULLET3X1	DB 3,1*8 DBH 7FFFFE0300C09FFFFF9ADAAA955551010080C0003FEFF7F DBH 464646
FLAMESPR	DBH FF00FF00FF00FF00DD00FF00FF008822 DBH FF00FF00DD00FE00F8014520DF008F20 DBH 000AF004F80000811F0017000028E000 DBH C012007D0348170000BEE000C00100FF DBH 0B20118400FF8024C00100FF0B201B80 DBH 007FE004E00000FE31041B40005BC012 DBH EC0000123F006F000081F800F0040014 DBH C710AF000100FA00FC0109001F40BF00 DBH 8822FE00FF00DD00FF00FF00FF00FF00
FLAMESPR2	DBH FF00FF00FF00FF00FF00FF00FF00FF00 DBH FF00FF00F700FF00FF0063087F003F80 DBH 3480FE00FD0018427F006F00802DF802 DBH FD0080A507902F000042F600E009001D DBH 1F40378000BEF600F401003E23087740 DBH 005CE208F60000A27F80DF000049FD00 DBH F802C5148F20DF00E600FD00FF00C009 DBH 7F00FF008620FF00FF00DF00FF00FF00 DBH FF00FF00FF00FF00FF00FF00FF00FF00
SHOTEXP1	DBH F6004015401B3F00178002E00A9E000 DBH C008001B00850340018800A00023C004 DBH 8010008300820330037000880027C00C DBH 8017008700C001D0009400DD00EC002E DBH C77B23C2E6DD876333FBECC42FF7F96 DBH 42F3FF578A3EE16414F01CA5CA1E794C DBH 3E7BBF707E3E31FF1F9C3EFFF89D9E07 DBH A13FFAE181FE3F55609A7D064ABA4530 DBH 002200EF004603400128001E00F08010 DBH C00500E2000F03100740000700C08011 DBH C00B0009004307200F0000110013E002 DBH F000002B00C85F00FF0008749401FD00 DBH 00464600 DBH 06575746 DBH 06575746 DBH 00064600
SHOTEXP2	DBH E000122D0C203F000F0000820076C005 DBH 8013008D00090740031000840046C001 DBH 8015003000700128009000F9007C0020 DBH 000400BE00FF00EA00D000FF00FF0040 DBH 21FFFFE1F2EFBF44A7DD9FF4FA8FE04F DBH 1FB005FCFA93E41B9F62A3B0C0C3C10F DBH 4F87F5C2E8C161A7DFF360F5F233F65E DBH 97F80EF9FAD7F06FAFDDEFF0E2FEBF4F DBH C00400FE00FF03E001C8007F007F8001 DBH 002200FA00FF00040180006300FD8000 DBH 8012007900E70128039000D80030C005 DBH E0000002003F07802F0000971823FA00 DBH 00464600 DBH 06565646 DBH 06165646 DBH 00064600
SHOTEXP3	DBH F40000C200923F000F80002F00E9E001 DBH C009009C007707C0039000FF007BE002 DBH E00600FF00F7012800BC00FF007FC00A DBH C00D00FF00FF007800B00DD00F28013 DBH 3B61587FBF01015F8B4383FEFE8DB35F DBH 3E9FD93C7E708C3F1F0BB0FFFFD834AE DBH 1CF65EFF7FB81B2E7F0C603EFC0067F DBH FA0C61F8FC3118FC7D1002FCF8C2012E DBH 8016002300F107E0074000FB00CE0039 DBH 801600FD00FE03D007E000FF005FC00E

DBH C00C00AF000E07A00FC0005E005EE003
DBH F00100FC00ED1F003F0012400338FC00

DBH 00464600
DBH 06575746
DBH 06175746
DBH 00060600

SHOTEXP4 DBH F800986402981F000F80007D00BBF002
DBH E006007D00FB07A00370003000A2C00C
DBH 801C000300000138005C000400038019
DBH 00280027009000AC005C008100578010

DBH 3827840E36C0861D4FAFC1EFCDD77FC2D
DBH 78F39F9E3C6F6770E24FEE3C1A74CE50

DBH F3CD241C9E77C467DF63EFEF18CEE661
DBH 3071109D1EF03F5A2C3FE22E7EF05C1C

DBH 8018007800700074013800390072002A
DBH 801400E0001801380158000C00CD8010
DBH 801A00BF008503B007E000E3003DC00F
DBH E00700F800F70F801F00003C02E0F000

DBH 00464600
DBH 46574746
DBH 46574746
DBH 00464600

; *****

WEAPONSPRITES

SHOTGUNSPRT DBH FE007F003F00FC00F8011F800F40F002
DBH E0060F4007E0E004E00507200720E005
DBH E00507200720E005C004072003208019
DBH 0026015800B4002A002A00940024002A
DBH 002A00240004002A002E000400540020
DBH 8011006C0140C00AE00403400760C00C
DBH 8010031001080020020010801080021
DBH 801203900760C00CE1000F009F00F300

THREEWAYSPRT DBH F0000F000700E000C00F03F001188018
DBH 8014012801C88013C008031001188018
DBH 0022004400B4002D0026007400240024
DBH 0020000400440022002500240094002B
DBH 801501480110C008C008003C00448015
DBH 80150054004480158015004401188010
DBH C00A03B00740E004C00A07A00390C00A
DBH E004031007E0F003F8000F001F00FC00

FLAMESPRT DBH FE00FF006F00EC00C001070003908012
DBH 002C01680044002002400A401088010
DBH 002400A400A400248010010800A40024
DBH 002400A401088010002400A400A40024
DBH 00200108016880160026016801080020
DBH 00200310016800260026016801100020
DBH 0020009C004400280028007400840024
DBH 801000FC0180C00FE00003007F00F000

POWERUPSPRT DBH F2004F000700E000C00D03B001488012
DBH 8012014801D880168012014801F8801F
DBH C00003000300C000C00D03B001488012
DBH 8012014801D880168012014801F8801F
DBH C00003000300C000C00D03B001488012
DBH 8012014801D880168012014801F8801F
DBH 003D01F800040022002E009400940022
DBH 801A009400040022801D01F80300C200

FULLAUTOSPRT DBH F8007F003F00F000E0071F800F80E004
DBH C00D07E00720C008801D037001080020
DBH 00200108039080130020010801080020
DBH 80130390010800200020010801508010
DBH C00E003C00448010002000340024002B
DBH 00240084018800240023037007408010
DBH C00C0FC00F40C0088016072007208014
DBH 8010072007E0801FC0000F001F00E000

SCHARGESPR1 DBH FB001F000F40D000800407A00740002A
DBH 800403100780800000210F4017808000

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DBH C00423004108C00AE00483000720E100
DBH C008035001508014C009008C0002E002
DBH F001008C0150FC00EE0003500720C600
DBH 80100B801100002800446004C1000128
DBH 831083100128C1088014004401280022
DBH 80148310C700C108E300EF00FF00F700

SCHARGESPR2 DBH DF00BF000F008B000020074003100054
DBH 00200128031000200050038001080024
DBH 800A001400228011C00A001481088014
DBH 00220300072000410022035001888014
DBH C00803500720E300F6000F001B80EC00
DBH C8010140008484100228000A00148310
DBH C1080128004480140022008200440041
DBH 0022012883108014C108C700EF00E300

BARRIERSPR DBH F8000F000700F000E00703F00108C008
DBH 801100C4002080020034001600160034
DBH 00340016001600348002002000C48011
DBH C008010803F0E007F00007000F00F800
DBH FC001F000F00F800F00307E00330E006
DBH E00403900380E000C00C01580158C00C
DBH C00C01580158C00CE00003800390E004
DBH E006033007E0F003F8000F001F00FC00
DBH FE003F001F00FC00F8010FC00720F002
DBH F00207200F00F800F00307E007E0F003
DBH F00307E007E0F003F8000F000720F002
DBH F00207200FC0F801FC001F003F00FE00
DBH FC001F000F00F800F00307E00330E006
DBH E00403900380E000C00D01180118C00D
DBH C00D01180118C00DE00003800390E004
DBH E006033007E0F003F8000F001F00FC00

BACKPACKSPR DBH F8001F000F00F000C00703E001108008
DBH 003300CC00440022002B00D401288014
DBH 80120148011880180022004400C40023
DBH 002200440138801CC1008300C700E300

EXTRALIFESPR DBH 0000000000FE007F0040000200FA005F
DBH 0040000200D2005D005A005200520054
DBH 0057005200520052005A005200420052
DBH 0054002200220044005700E200020040
DBH 0040000200FE007F00000000FF00FF00

; *****

GMX EQU 25

WEAPONROOM XOR A:LD (MAPX),A:LD (MAPDIR),A
LD (ONLADDER+1),A
LD A,$FF:LD (SETUD+1),A
LD A,GMX*2-26:LD (RIGHTMAX+1),A
LD A,GMX:LD (MAPXSIZE),A
LD HL,GRCHRS:LD (DMPCHRAD+1),HL
LD HL,GRATRS:LD (DMPATRAD+1),HL
LD HL,GRBLOX:LD (BLOXAD1+1),HL:LD (BLOXAD2+1),HL
LD HL,GRMAP:LD (MAP),HL
LD A,$F0:LD (MAPY),A

LD DE,$0018
SHOWEPRM PUSH DE:CALL UPDATEX:POP DE:DEC E:DEC E:JP P,SHOWEPRM

LD HL,500:LD (WEPAMOUNT),HL:LD A,50:LD (PAKAMOUNT),A

LD DE,$6820:LD (HEROX+1),DE
LD A,D:SUB $10:LD D,A:LD (GUNX+1),DE
XOR A:LD (HEROF+1),A:LD (HEROG+1),A
CALL RESETBAD

WAPINITAD LD HL,WAPTABLE
LD IX,WAPXYS:LD DE,5:LD BC,$060C
SETWAPS LD (IX+00),C:LD A,C:ADD A,6:LD C,A:LD (IX+01),$30
LD A,(HL):INC HL:LD (IX+02),A:LD (IX+03),$80
LD A,(HL):INC HL:LD (IX+04),A:ADD IX,DE:DJNZ SETWAPS

LD A,1:LD (NOScroll+1),A
WEAPONROOMLOOP XOR A:LD (RETMODE),A

LD A,(LEVEL):PUSH AF:XOR A:LD (LEVEL),A
LD A,1:LD (WEPFLRCOL+1),A:CALL DOALLBACKBITS

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CALL READKEYS:CALL DECODE:XOR A:LD (WEPFLRCOL+1),A
POP AF:LD (LEVEL),A

LD A,(RETMODE):OR A:RET NZ
LD A,NXTLEV:LD (RETMODE),A
LD A,(HEROX+1):CP $C8:RET Z

LD A,(FUDLR):AND $40:CALL NZ,PAUSE0
JP WEAPONROOMLOOP
; LD A,BREAK:LD (RETMODE),A
; LD A,127:IN A,(254):RRA :JP C,WEAPONROOMLOOP
; LD A,254:IN A,(254):RRA :JP C,WEAPONROOMLOOP:RET
;*****

PRTWAPS LD A,(POS):AND 3:LD DE,64:LD HL,BARRIERSPR:CALL MULT
LD (BARANI),HL
LD A,(POS):AND 1:LD DE,128:LD HL,SCHARGESPR1:CALL MULT
LD (SCHANI),HL

LD IX,WAPXYS:LD B,6
PRTWAPBLP PUSH BC:LD A,(IX+02):CP $FF:JP Z,NOPWAP:LD D,(IX+01)
LD A,(IX+03):CP $80:JR Z,NOPWAPS
CP Z0:JR Z,NOPWAPS
INC A:CP 10:JR Z,NOPWAPZ:LD (IX+03),A
NOPWAPZ ADD A,(IX+01):LD D,A
JP P,NOPWAPS:CP $90:JR NC,NOPWAPS
LD (IX+02),$FF:JP NOPWAP

NOPWAPS LD E,(IX+00):LD A,(MAPY):CP $F0:JR Z,MASDA
LD A,(LEVEL):CP 7:JR Z,MAZDA
MASDA LD HL,(MAPX):LD A,E:SUB L
ADD A,A:ADD A,A:ADD A,A:LD E,A
MAZDA LD C,1:CALL TASTEFLOOR:JR NC,NSTFLS
LD (IX+03),Z0

LD A,(IX+02):SUB 11:JR C,NSTFLS
ADD A,A:ADD A,A:ADD A,A:LD (SETEE+1),A
DB 62
SAVORS DB 0
SETEE SET 0,A:LD (SAVORS),A
LD HL,SAVEDPEOPLE+1:INC (HL)
LD A,(RND1):AND 15:CP 11:JR C,ARR:SUB 11
ARR LD (IX+02),A

NSTFLS LD (IX+01),D:LD A,(MAPY):CP $F0:JR Z,ESRA
LD A,(LEVEL):CP 7:JR Z,EZRA
ESRA LD DE,(MAPX):LD A,(IX+00)
SUB E:JP C,NOPWAP:CP 30:JP NC,NOPWAP
ADD A,A:ADD A,A:ADD A,A:LD E,A
EZRA LD D,(IX+01)
LD HL,WAPYPES+3:LD A,(IX+02):ADD A,A:ADD A,A
CALL ADDHLA
LD (HEREXY+1),DE
LD A,D:ADD A,(HL):LD D,A:DEC HL:LD B,(HL):DEC HL
LD A,(HL):DEC HL:LD L,(HL):LD H,A
LD A,D:ADD A,B:ADD A,B:OR A:JP M,NOPWAP
LD C,B:LD B,2:CALL MASKCXB
HEREXY LD DE,0
LD A,(IX+3):CP $80:LD B,(IX+4):CALL Z,PRTNUMKEY

LD D,8:LD HL,(HEROX+1):LD H,32:CALL HITA:JR C,NOPWAP
LD E,(IX+01):LD D,32:LD A,(HEROX+2):SUB $10:LD L,A
LD H,32:CALL HITA:JR C,NOPWAP

LD A,(KEYSCOLLECTED+1):SUB (IX+04):JR C,NOPWAP
LD (KEYSCOLLECTED+1),A

LD A,(IX+03):CP $80:JR Z,JUMPWAP
CP Z0:JR NZ,NOPWAP

LD DE,0*256+2:CALL ADDSCORE

LD A,(IX+02):ADD A,A:LD E,A:LD D,0:LD HL,FNI
ADD HL,DE:LD E,(HL):INC HL:LD D,(HL):EX DE,HL
CALL JPHL:LD (IX+02),$FF:JR NOPWAP
LD (IX+03),-8:LD (IX+04),0
JUMPWAP POP BC:LD DE,5:ADD IX,DE:DEC B:JP NZ,PRTWAPBLP:RET
NOPWAP

```

```

PRTNUMKEY    DEC B:RET M
              PUSH BC:PUSH DE
              LD HL,SMOFDE:LD A,B:ADD A,A:ADD A,B:ADD A,L:LD L,A
              ADC A,H:SUB L:LD H,A:LD A,D:ADD A,$18:LD D,A:LD B,3
PRTNUMKEYBLP LD A,(HL):INC HL:SUB 8:PUSH HL:JR C,NOKEYCH
              LD HL,KEYCHRS:CALL ADDHLA
              CALL DMPHLCHR
NOKEYCH      LD A,E:ADD 8:LD E,A:POP HL:DJNZ PRTNUMKEYBLP
DEK
              LD A,(IX+02):ADD A,A:LD HL,WEPNAMESAD:LD E,A:LD D,0
              ADD HL,DE:LD E,(HL):INC HL:LD D,(HL):EX DE,HL
              POP DE:PUSH DE:LD A,D:SUB $20:LD D,A
              LD A,E:SUB 8:LD E,A:LD BC,$0503:CALL BAXIT:POP DE

              POP BC:INC B:LD A,(KEYSCOLLECTED+1):CP B:RET C

              PUSH DE:LD A,(POS):AND 1:JR Z,NOF
              LD D,$18:LD A,(HEROX+1):ADD A,8:LD L,A:LD H,$10
              CALL HITA:JR C,NOF:POP DE:PUSH DE:LD A,D:ADD A,$18
              LD D,A:LD A,E:SUB 8:LD E,A:CALL BATAD
              LD A,&106:LD (HL),A:INC L:LD (HL),A:INC L
              LD (HL),A:INC L:LD (HL),A:INC L:LD (HL),A
NOF           POP DE:RET

SMOFDE       DBH 001800
              DBH 001000
              DBH 081000
              DBH 081018
              DBH 101018
              DBH 101010

KEYCHRS      DB %00000000
              DB %11111111
              DB %11111000
              DB %11111000
              DB %11111101
              DB %11111101
              DB %11111111
              DB %00000000

              DB %00000000
              DB %11111111
              DB %10001000
              DB %10001000
              DB %11011101
              DB %11011101
              DB %11111111
              DB %00000000

              DB %00000000
              DB %11111111
              DB %10001111
              DB %10001111
              DB %11011111
              DB %11011111
              DB %11111111
              DB %00000000

WEPNAMESAD   DW WEPNAMES+00*30
              DW WEPNAMES+01*30
              DW WEPNAMES+02*30
              DW WEPNAMES+03*30
              DW WEPNAMES+04*30
              DW WEPNAMES+05*30
              DW WEPNAMES+06*30
              DW WEPNAMES+07*30
              DW WEPNAMES+08*30
              DW WEPNAMES+09*30
              DW WEPNAMES+10*30
              DW WEPNAMES+11*30
              DW WEPNAMES+11*30
              DW WEPNAMES+11*30
              DW WEPNAMES+11*30
              DW WEPNAMES+11*30

WEPNAMES     DBH 0EA8825720505285A8080CA887525050

```

```

DBH 5285A808086EE532200000000000
DBH 00304494000054450800001345C80000
DBH 48550800003029480000000000000
DBH 0003ACE00000802A020000032CC00000
DBH 802A020000022AE00000000000000
DBH 01A9389540C055912A02013A9115C0C0
DBH 5591AA00032910CD40000000000000
DBH 019511DCC00009115501019511888040
DBH 0811550101CDDDC980000000000000
DBH 000ABB100000A8920E00000E93280000
DBH A8920E0000A9290000000000000000
DBH 006A48BB0080A2A88A00004EA8B30080
DBH A2AA2A0000CA453A80000000000000
DBH 00522952000075555500007545740000
DBH 754555000052455300000000000000
DBH 01899976000045555501019D99660000
DBH 4555550101D5557500000000000000
DBH 030D498DC000515511040211DD958000
DBH 55551101064D554DC00000000000000
DBH 000042B00000A8C20000000042B00000
DBH A0420000000E3A0000000000000000
DBH 00000400000000A0000000002000000
DBH 0004000000000000000000040000

```

```

DMPHLCHR  PUSH DE:PUSH BC:PUSH HL:CALL BIXAD:POP DE:LD BC,32:LD A,7
AFLP      EX AF,AF:LD A,(DE):LD (HL),A:ADD HL,BC:INC DE
          EX AF,AF:DEC A:JP NZ,AFLP:LD A,(DE):LD (HL),A
          POP BC:POP DE:RET

```

```

FNI      DW SETSHOT          ; 00
          DW SETTHREE        ; 01
          DW SETFLAME        ; 02
          DW SETFULL         ; 03
          DW ADDAMMO         ; 04
          DW SETNITRO        ; 05
          DW SETSHOWER       ; 06
          DW SETHOMING       ; 07
          DW SETBARRIER     ; 08
          DW SETSUPER        ; 09
          DW SET1UP          ; 10
;         DW RETURN          ; 11
;         DW RETURN          ; 12
;         DW RETURN          ; 13
;         DW RETURN          ; 14
;         DW RETURN          ; 15
;         DW RETURN          ; 16

```

```

WEPAMOUNT DW 500
PAKAMOUNT DB 50

```

```

SETSUPER  LD A,(WEPTYPE+1):OR A:RET Z
          LD A,1:LD (WEPPPOWER),A:RET

```

```

SET1UP    LD A,(LIVES):INC A:LD (LIVES),A:RET

```

```

SETFULL   XOR A:LD (WEPPPOWER),A
          LD A,4:LD (WEPTYPE+1),A
          LD HL,(WEPAMOUNT):LD (AMMOLEFT+1),HL:RET
SETFLAME  XOR A:LD (WEPPPOWER),A
          LD A,1:LD (WEPTYPE+1),A
          LD HL,(WEPAMOUNT):LD (AMMOLEFT+1),HL:RET

```

```

SETTHREE  XOR A:LD (WEPPPOWER),A
          LD A,2:LD (WEPTYPE+1),A
          LD HL,(WEPAMOUNT):LD (AMMOLEFT+1),HL:RET

```

```

SETSHOT   XOR A:LD (WEPPPOWER),A
          LD A,3:LD (WEPTYPE+1),A
          LD HL,(WEPAMOUNT):LD (AMMOLEFT+1),HL:RET

```

```

ADDAMMO   LD A,(WEPTYPE+1):OR A:RET Z
          LD DE,(AMMOLEFT+1):LD HL,499:OR A:SBC HL,DE
          JR NC,FJE:LD DE,499

```

```

FJE       LD HL,500:ADD HL,DE:LD (AMMOLEFT+1),HL:RET

```

```

SETNITRO  LD A,1:LD (PAKTYPE+1),A
          LD A,(PAKAMOUNT):LD (BACKLEFT+1),A:RET

```

```

SETHOMING LD A,2:LD (PAKTYPE+1),A
          LD A,(PAKAMOUNT):LD (BACKLEFT+1),A:RET

```

```

SETSHOWER LD A,3:LD (PAKTYPE+1),A
          LD A,(PAKAMOUNT):LD (BACKLEFT+1),A:RET

```

```

SETBARRIER LD HL,500:LD (PRTBARRIER+1),HL:RET

```


DBH 32013334020333343232333435363738
DBH 140415060508070A2604270626043B06
DBH 31182D2D191C2E2D0001333439183A1A
DBH 191C1B1E2618271A391D3A1F261F3B1F

GRMAP

DBH 00010203040506040506040506040506
DBH 04050604051C1D0001
DBH 000708090A0B260A0B260A0B260A0B26
DBH 0A0B260A0B23240007
DBH 0001020C0D0E0F0D0E0F0D0E0F0D0E0F
DBH 0D0E0F0D0E1E1D0001
DBH 000708100D0E0F0D0E0F0D0E0F0D0E0F
DBH 0D0E0F0D0E25240007
DBH 0001020C111227111227111227111227
DBH 11122711121F1D0001
DBH 13071415161617161617161617161617
DBH 161617161620210007
DBH 18191A1A1A1A1A1A1A1A1A1A1A1A1A
DBH 1A1A1A1A1A1A1A2219
DBH 1B1B1B1B1B1B1B1B1B1B1B1B1B1B1B
DBH 1B1B1B1B1B1B1B1B1B

; ** SPRITES **
; *****

HEROARMS DBH FF00FF00FF00FF00FF00FF00FF00
DBH FF00F800F000E007C008801300270027
DBH 00238010002C005000590022801CC100
DBH FF00FF00FF00FF00FF00F300C100800C
DBH 00340050802700480013002700270023
DBH 8010C00CE002F002F801FC00F801F002
DBH E70080000018006B802500428020004C
DBH 00218017002880130027002700238010
DBH C00CE002F001F801FC00FE00FF00FF00
DBH FF00FF00FF00FF00FF00F100E000C00E
DBH 80110021002680088013002700270023
DBH 8010C00EE001F001FC00FE00FC00F801

SPRITES

HEROWALK1

DBH FF008300CF00FF00FF0087000100FF00
DBH FE00007C0330FF00FF0001480082F400
DBH E001003801A8FF00FF0001A80040C009
DBH 8016000C00ACFF007F0000920030C009
DBH 8011001200B93F001F800092008CC00B
DBH E004002000870F400F4000A30090C009
DBH 801300C800A81F803F0000A100C08013
DBH 801100A400181F801F80007A00C0C008
DBH C00B00F600321F801F800000007CC009
DBH C00800C000CF3F007F000008001FE004
DBH F00300E00048FF00FF000084000F800
DBH FC001C0000FCFF00FF000100FE00FF00

HEROWALK2

DBH FF00F0003F00FF00FF001F80E003FF00
DBH FF00C00C09409F000F0000A08010FE00
DBH FC00001300160760039000680064F801
DBH F00200920095035007A000120025F002
DBH F801000300640F400F40008900C0F801
DBH F002001800130F400F4000AB00CDE004
DBH C00900E500541F803F00000B00CAC009
DBH C008008400B07F00FF0000D00001E005
DBH C00B00FD01A8FF00FF00010800E2C009
DBH C008008D0390FF00FF0007600072E004
DBH F00300940F00FF00FF009F000108F800
DBH FC006300FF00FF00FF00F00F00FF00

HEROWALK3

DBH FF00FE000F00FF00FF000700FC00FF00
DBH FF00E00103F0FF00FF000108C002FF00
DBH FF00801C0004FF007F0000FA0022FF00
DBH FE00004000027F003F0000AD0008FC00
DBH F80100E100527F003F0000670014F002
DBH E00400C6003803800140000300E3C009
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DBH E004008200AD007A0084000300E0C009
DBH C00800FA00E101B8034000CC006DC009
DBH E0040010001307803F0000D000EEF003
DBH F800000100107F00FF0007E01000FC00
DBH FF00FE000F00FF00FF0001F00FF00FF00

HEROWALK4

DBH FF00FE001F00FF00FF000F00A800FF00
DBH FF00000107E0FF00FF0003100056FE00
DBH FC0000A80148FF00FF0000240080FC00
DBH F80100C9001A7F007F0000420024F002
DBH E00400C90054FF00FF0000E000E0C009
DBH C00900E4009A7F003F00004100CAC008
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DBH C00800C600A41F801F8000800F3C008
DBH E004005100E53F007F0000920008F003
DBH F80000C6000A7F00FF000024002FFC00
DBH FF00001600727F003F0000B9C009FF00
DBH FF00E00600441F801F80843BF100FF00

HEROWALK5

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DBH FC0000680310FF00FF00010800C0F801
DBH F00200200108FF00FF0001080040E004
DBH C00900E80108FF00FF00001000E8C009
DBH C00800C400247F003F0000C70013E004
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DBH C00800D4006F0F400F4000260049E004
DBH F002006000280F401F8000240031F801
DBH FC0000B400261F801F80002A004EFE00
DBH FE00006E00281F803F0000230045FE00
DBH FE00007A00CC7F00FF0000700000FF00

HEROCLIMB1

DBH FF000F00FF00FF00FF0000760FE00
DBH F0000390FF00FF00FF00001A8C000
DBH 800E01A8FF00FF00FF00001280031
DBH 004000887F00FF00FF003F0000480081
DBH 0081004B1F80FF00FF000F4000840042
DBH 00A4006307A0FF00FF0007A0001D0010
DBH 00A900C20760FF00FF000F4000B9006B
DBH 00F700FD0F40FF00FF001F8000FD007F
DBH 007F00B80F40FF00FF000F4000C300EE
DBH 001F00070F40FF00FF001F8000C8007F
DBH 807F00C73F00FF00FF007F000080FE3F
DBH FF000000FF00FF00FF00C700FF00

HEROCLIMB2

DBH C0007F00E700FF00FF00C3003F00800F
DBH 00301F808118FF00FF0000240F400041
DBH 008E06A00054FF00FF0001A804A00090
DBH 006100210350FF00FF0007A000C200A0
DBH 002800380F40FF00FF0007A0008400AF
DBH 005F00720350FF00FF000012800FA00FF
DBH 007F00FB0168FF00FF0000128007007F
DBH 00ED00840390FF00FF000168000F001E
DBH 007F007E0390FF00FF0007A0009E803F
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HEROCLIMB3

DBH 80007F00FF00FF00FF003F00002F
DBH 00501F80FF00FF00FF000F400080
DBH 00AF07A0FF00FF00FF00007200080
DBH 004203D0FF00FF00FF00003100081
DBH 00600370FF00FF00FF000010800BF
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DBH FF00C0000148FF00FF000300E000FF00

HEROCLIMB4

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DBH 00901F80FF00FF00FF000F4000AC
DBH 008307A0FF00FF00FF00007200040
DBH 004203D0FF00FF00FF00003900081
DBH 00600760FF00FF007F00021000BE
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DBH 007F00EA0F40FF00FF00072000D1007D
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DBH 007D00F20014FF007F00000A00F8803C
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HEROCLIMB5

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HEROCRAWL1

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HEROCRAWL2

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HEROCRAWL3

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HEROCRAWL4

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DBH FF00E0060084FF007F000002C005FF00
DBH FF00C00800213F003F0000118008FF00
DBH FF000034008E1F801F8000300048FF00
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DBH FF00FF00F000400EE000F800FF00FF00
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HEROCRAWL5

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DBH FF00800E007C0F401F8000800036FF00

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HEROCRAWL6

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HEROCRAWL7

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HEROCRAWL8

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DBH 800C008D00500F400F4000340053C000
DBH 801700240088072003100052000B801A
DBH C00000B70082031003B0009900278011
DBH C00E009001D078003B0003F00EEE000
DBH F0010076007D01380024007D0034F801
DBH FC00008800BA005C00A200850041FE00
DBH FF00002200000052006C7A00801CF000
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HEROFALL

; 1 FALL \$100 256 BYTES

DBH FF00C900FF00FF003F00FF008000F900
DBH F00000367E000F0007C020000049E006
DBH C0090082008103300148005D004CE005
DBH C008001100A300340094005D0000AE006
DBH C0080014005E004401E800BE000D8015
DBH 002B0002007401E8035000E700310026
DBH 002D007F00F303D007A000F000DF8013
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DBH C008003300D00F400F4000800007E006
DBH E00400000000F400F4000000000C008
DBH C008002100880F4007800070003EC008
DBH E004001000080380019880080120F002
DBH F8010310E00400E40044E0040108F801
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DBH E0040760C00F07C00F00E000FC0E007
DBH F0001F00F0003F00FF00F003F00F800

HEROLEG1

DBH FF00200400027F003F0000010008FC00
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DBH F002003000480720072000440058E004
DBH E00400471082072007E030020040E004

DBH E0041880780103200120F8013F00F003
DBH F8007F00F002005C0022F002F00FC00
DBH FF00FF00E004000200FEE007FF00FF00
HEROLEG2
DBH FF0080100310FF00FF0003100020FF00
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DBH FC0000800108FF00FF0001080080FC00
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DBH FE0000433F00FF00FF001F8000E0FC00
DBH F80100000F40FF00FF000F400000F002
DBH F002001D1F80FF00FF003F000022E004
DBH E00400027F00FF00FF007F0000FEE007
HEROLEG4
DBH FE0000400108FF00FF0000040080FC00
DBH FC0000800004FF00FF0001080000F801
DBH F80100020108FF00FF0003100005F801
DBH F00200090120FF00FF00001C00128002
DBH 000C002200027F007F00008208C10070
DBH 00431C00007CFF00FF0001003E000044
DBH 0044FF008300FF00FF007F000042
DBH 00613F00FF00FF00FF00FF003F00803F

HEROLEGSTAND
DBH FC0000800720FF00FF0003100000F801
DBH F80100000108FF00FF0001080000F801
DBH F80100020004FF00FF0000CC0085FC00
DBH F801001C00827F007F0000820008F002
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DBH F80107200323F001F0000220310F002
DBH F003030000250FC0072000220720E004
DBH C00802100040072007E0007F02F0C00F
HEROLEGJUMP
DBH F8010000000CFF007F0000020000F002
DBH F002000000013F001F8000800000F801
DBH FC0000E000401F803F0000210020FE00
DBH FE00004000431F800F40008E0083FC00
DBH F801000C00400F401F8000400030F002
DBH F002001C00473F007F0000380002F002
DBH F80100820000FF00FF00C700007CFC00
DBH FE000100FF00FF00FF00FF008300FF00

HEROLEGCL1
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DBH F00200000310FF00FF0003100044F801
DBH F80100380310FF00FF0007200088F002
DBH F00200A50310FF00FF00010800FAF003
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DBH F80100120108FF00FF0003100012F801
DBH F80100B10720FF00FF0003F000A9F002
DBH F00200AA0128FF00FF000001400FAF003
DBH F8000001000CFF00FF0000840400FC00
DBH FF00FE000178FF00FF000300FF00FF00
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DBH FC0000820118FF00FF0000540044FE00
DBH FC0000890054FF00FF0000FC0005F801
DBH F80100040100FF00FF000300008F801
DBH FC000390FF00FF00FF00FF0007A0FC00
DBH F80103B0FF00FF00FF0001A8F002

HEROLEGCL4 DBH F00201A8FF00FF00FF00FF0001F8F003
DBH FE0000570390FF00FF0001080080FC00
DBH F80100000004FF00FF0000440002F002
DBH F00200050084FF00FF0001080018F801
DBH F80100080188FF00FF0003500088FC00
DBH FE00004801D8FF00FF0000540065FE00
DBH FC00008D0054FF00FF0000FC0045F801
DBH F00200840100FF00FF0003000008F003
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; *****

HEROLEGCR1 DBH FC007C00F000FF00FF0060060000F800
DBH F00300830009FF00FF0000910064F002
DBH F002000400E1FF00FF0000200008F002
DBH E00400500010FF00FF00000000A3E004
DBH E00400A20080FF00FF00004000ACE004
DBH F00301980021FF00FF0080120300F800
DBH FC006700C00CFF00FF00E100FF00FF00
DBH FF00FF00F300FF00FF00FF00FF00FF00

HEROLEGCR2 DBH FF008700F300FF00FF00E0000300FF00
DBH FE000068C00CFF00FF0000130094FC00
DBH FC00008F0022FF00FF0000C20080FC00
DBH FC0000800040FF00FF0000000018F801
DBH F80100240000FF00FF0000000023F801
DBH F80100C800E3FF00FF00001C0000FC00
DBH FE0037000000FF00FF00E300FF00FF00
DBH FF00FF00FF00FF00FF00FF00FF00FF00

HEROLEGCR3 DBH FE003100E000FF00FF00C00C0000FC00
DBH F80100CE0013FF00FF0000230069F801
DBH F801001C00C2FF00FF0000800003F801
DBH F00300000080FF00FF0000000030F002
DBH F002004C0000FF00FF0000020047F002
DBH F003108000FDFF00FF0000003800F800
DBH FC007F000200FF00FF00FF00FF00FF00
DBH FF00FF00FF00FF00FF00FF00FF00FF00

; *****

BADWALK1 ; 5 RUN LEFT \$3C0 1152 BYTES

DBH FE000000FF00FF00FF007F0000FEF000
DBH E00100013F00FF00FF0010800000C00F
DBH 8010008000807F003F00008F00B48010
DBH 0021004100701F801F80008E00010022
DBH 80140000007F0F400F4000F700268014
DBH 801600DE00F707A003A000E3003F8016
DBH 8015003F008D01A8001400EA003F8015
DBH 8017001F00D2000400040011000EC008
DBH E00700E0003801F8030002000000F000
DBH F8001F00C7000700FF00FF00FF00FF00
DBH FF00FF00FF00FF00FF00FF00FF00FF00
DBH FF00FF00FF00FF00FF00FF00FF00FF00

BADWALK2 DBH FF008000FF00FF00FF007F000000FF00
DBH FE00007F3F00FF00FF001F800080FC00
DBH F80100400F40FF00FF000F400000F801
DBH F801007A0F40FF00FF001F800060F001
DBH E00100000780FF00FF0001600000C00D
DBH 8019001000187F003F0000E600E68010
DBH 8010000D00F91F800F4000FE001DC00E
DBH E004005F00EF07A007A0009F009FE005
DBH E00500CF00EF0F401F80008600CFF002
DBH F801000700613F007F00004600F0FC00
DBH FE00000000427F007F0000220F00FF00
DBH FF00FF00801CFF00FF00C100FF00FF00

BADWALK3 DBH FF00FF00FF00FF00FF00008000FF00
DBH FF0000007F00FF00FF003F00007FFE00
DBH FC0000801F80FF00FF000F400040F801
DBH F80100000F40FF00FF000F40007AF801
DBH F80100601F80FF00FF001F800000F801
DBH F80100000F40FF00FF0007A00013F801
DBH FC0000EF03D0FF00FF0003D0001FFC00
DBH F800005B01A8FF00FF0001E800ADF003
DBH E004000D00F4FF00FF0000740036E004
DBH F00200C900FAFF00FF0000E40023F801

```

DBH F80100030108FF00FF000300008CFC00
DBH FE000070F700FF00FF00F000300FF00

BADWALK4

DBH FF008000FF00FF00FF007F000000FF00
DBH FE00007F3F00FF00FF001F800080FC00
DBH F80100400F40FF00FF00F400000F801
DBH F801007A0F40FF00FF001F800060F801
DBH F80100000F80FF00FF0003400001F801
DBH F80100000B0FF007F00004C00D7F800
DBH F000002F00E33F001F8000E4002FE007
DBH C00800A700730F400F4000F300DCC008
DBH C009003E00F21F803F0000F1007CC008
DBH E006007100C27F00FF000000008F001
DBH F80000F03D00FF00FF00FF000700FE00
DBH FF000F00FF00FF00FF00FF00FF00FF00

```

```

BADWALK5

DBH FE000000FF00FF00FF007F0000FEF400
DBH E00100013F00FF00FF001F800080C00A
DBH 801200001980FF00FF00008000F40022
DBH 002200C100067F003F00001900010022
DBH 801200020661F800F40009F0001C00A
DBH C009000300CF03A001D000E3003BC00A
DBH C00B007F00E000D4000A00EB007FC009
DBH C00B00FB00F400C2002400F400C5C00B
DBH C00900DB00020118C30008000020E004
DBH F00304C0FD00E700FF00FF001F00F800
DBH FC003F00FF00FF00FF00FF00FF00FF00
DBH FF00FF00FF00FF00FF00FF00FF00FF00

```

```

*****
;

```

```

BAD1FALL ;1FALL RIGHT $140 320 BYTES

```

```

DBH FF00FC001F00FF00FF000FC0F801FF00
DBH FF00F0020F40FF0007000420E004FF00
DBH FF00E0040020030001F80043C00BFF00
DBH FF00801500840004006A0008002DFF00
DBH FF00002E00480062002200B4005DFE00
DBH FC00000F00C00022000200BE00A7F801
DBH F0020053007F0002000200FF0010F002
DBH F002003D00FB004401B800FA003DF801
DBH F80100DD00F50300470000EA002FFC00
DBH F80000C7009A7F00FF0000340000F003
DBH E00400000014FF00FF0001080000E004
DBH E00400000108FF00FF0001080000C004
DBH 800400500108FF00FF00037000300034
DBH 004C00500720FF00FF000F4000500044
DBH 004400900FC0FF00FF000F4000900020
DBH 002100080720FF00FF00031060048012
DBH C00CF0020310FF00FF000108F801E100
DBH F300FC0000C4FF007F000002F801FF00
DBH FF00F0020004FF00FF000108F002FF00
DBH FF00F80103F0FF00FF000700FC00FF00

```

```

*****
;

```

```

STAR1 DBH FF007F003F00FE00FC001F803F00FE00
DBH FC001F800F40F801D001054000308006
DBH 0028008A00308006D00105400F40F801
DBH FC001F803F00FE00FC001F803F00FE00

STAR2 DBH FF00FF00FF00FF00F700F700C300E100
DBH C00881080320E002E005035007A0F002
DBH F8010FC007A0F002E00503500320E002
DBH C0088108C300E100F700F700FF00FF00

```

```

*****
;
** CODE END LABEL **
*****
;

```

```

CODEEND

```

```

*****
;
** LEVEL STUFF **
;
*****
;

```

```

LEVELDATA
LEVELEND EQU LEVELDATA+$2000

```

```

LEVELSTARTUP DB $FF,$FF ; HERO X,Y
MAPXS DB $FF ; MAPX

```

```

MAPYS      DB  $FF          ; MAPY
MAPDIRS    DB  0            ; 0=SCROLL L/R - 1=SCROLL U/D
WEPROOMX   DB  $FF          ; WEAPON ROOM X INIT
WEPROOMY   DB  $FF          ; WEAPON ROOM Y INIT
DOORXY     DW  $FFFF        ; DOOR XY
RM          DB  $FF          ; RIGHTMAX
RDM         DB  $FF          ; DOWNMAX
UD          DB  $FF          ; SETUD
LR          DB  $FF          ; SETLR
FLOORTESTBYTES DW $FFFF    ; FLOOR BLOCKS
FLOORWALLBYTES DW $FFFF    ; WALL BLOCKS
LD1         DB  $FF          ; LADDER BLOCKS - $FF,$FF
LD2         DB  $FF          ; LADDER BLOCKS - $FF,$FF
CR1         DB  $FF          ; CRAWL ON BLOCK
SL1         DB  $FF          ; SLIDE UP
SL2         DB  $FF          ; SLIDE UP
SL3         DB  $FF          ; SLIDE DOWN
SL4         DB  $FF          ; SLIDE DOWN
BADDYINITSX DW $FFFF        ; LEVEL BADDY INITS X
BADDYINITSX2 DW $FFFF       ; LEVEL BADDY INITS X2
BADDYINITSY DW $FFFF        ; LEVEL BADDY INITS Y
CHRS        DW  $FFFF        ; CHRS
ATRS        DW  $FFFF        ; ATRS
BLOX        DW  $FFFF        ; BLOX
MAP1        DW  $FFFF        ; MAPX
MAP2        DW  $FFFF        ; MAPY
MAXMAP      DB  0            ; MAPXMAXSIZE

```

```

PRTLEVELBACK LD HL,0:LD HL,0:LD HL,0:RET
RESETLEVELBAD JP RETURN
SMODLEVEL     JP RETURN
WAPTABLE      DB  $00,$00,$00,$00,$00,$00,$00,$00,$00,$00
KILLBIG       JP RETURN
INITBIG1      JP RETURN
INITBIG2      JP RETURN
INITBIG3      JP RETURN
INITBIG4      JP RETURN

```

ENDF

```

;*****
; ** LEVEL 1 STUFF ( DATA , SPRITES AND PROGRAMMING ) **
;*****

```

```

IFLB STARTLEV=1
ORG LEVELDATA

```

LEVEL1DATA

```

DB  $70,$30+FLOROF ; HERO X,Y
DB  $00             ; MAPX
DB  $10             ; MAPY
DB  0               ; 0=SCROLL L/R - 1=SCROLL U/D
DB  $E6,$00         ; WEAPON ROOM X,Y INIT
DW  $2008           ; DOOR XY
DB  $E6,$10         ; RIGHTMAX,DOWNMAX
DB  $E6,$FF         ; SETUD,SETLR
DW  FLOOR1          ; FLOOR BLOCKS
DW  WALL1           ; WALL BLOCKS
DB  $13,$FF         ; LADDER BLOCKS - $13,$14 - $FF,$FF
DB  $FF             ; CRAWL ON BLOCK
DB  $FF,$FF         ; SLIDE UP
DB  $FF,$FF         ; SLIDE DOWN
DW  LEV1BADX,LEV1BADX2 ; LEVEL BADDY INITS X,EXTRA X
DW  LEV1BADY        ; LEVEL BADDY INITS Y
DW  L1CHRS          ; CHRS
DW  L1ATRS          ; ATRS
DW  L1BLOX          ; BLOX
DW  L1MAPX          ; MAPX
DW  L1MAPY          ; MAPY
DB  128             ; MAPXMAXSIZE

```

```

CALL L1PRTTANK:CALL PRTJEEP:LD HL,0:RET
JP RESETLEV1BAD ; RESET LEVEL
JP RETURN ; SMOD LEVEL
WAPTABLE1 DB  $03,2,$01,2,$02,2,$04,2,$06,3,$08,2
JP L1KILLTANK ; KILL BIG
JP INITTANK1 ; INIT BIG 1
JP RETURN ; INIT BIG 2
JP RETURN ; INIT BIG 3
JP RETURN ; INIT BIG 4

```

```
RESETLEV1BAD  XOR  A:LD  (ISBIGON),A
                LD   (L1PRTTANK+1),A
                LD   HL,L1TANKATRS1:LD  (TANKATRS+1),HL
                LD   HL,L1TANKTURRET1:LD  (TUR1),HL
                LD   HL,L1TANKTURRET2:LD  (TUR2),HL
                LD   HL,L1TANKTURRET3:LD  (TUR3),HL
                JP   INITJEEP
```

```
FLOOR1        DB   2+3+4+1+1+1+1+4
                DBH  0001
                DBH  020304
                DBH  06070809
                DBH  0A
                DBH  0B
                DBH  18
                DBH  0C
                DBH  0D0E0F10
```

```
WALL1         DB   2+2+4+1+1+2+2+2
                DBH  7169
                DBH  6561
                DBH  63686E76
                DBH  1B
                DBH  1A
                DBH  7F76
                DBH  B3B4
                DBH  8489
```

```
LEV1BADX      DB   $10,$00,$40,JUMP  ; BADDY
                DB   $18,$00,$40,JUMP  ; BADDY
                DB   $20,$00,$40,JUMP+KEY; BADDY
                DB   $28,$01,$54,KEY    ; BADDY
                DB   $30,$01,$54,KEY    ; BADDY
                DB   $38,$01,$54,KEY    ; BADDY
                DB   $40,$02,$40,JUMP    ; BADDY
                DB   $48,$01,$54,KEY    ; BADDY
                DB   $50,$02,$40,JUMP    ; BADDY
                DB   $58,$01,$54,KEY    ; BADDY
                DB   $60,$02,$40,JUMP    ; BADDY
                DB   $64,$01,$54,KEY    ; BADDY
                DB   $82,$04,$E0,$40    ; TANK TOP
                DB   $92,$04,$E0,$40    ; TANK TOP
                DB   $9A,$04,$E0,$60    ; TANK TOP
                DB   $A2,$04,$E0,$40    ; TANK TOP
                DB   $B8,$01,$54,KEY    ; BADDY
                DB   $C0,$01,$54,KEY    ; BADDY
                DB   $C8,$01,$54,KEY    ; BADDY
                DB   $D8,$FF,$28        ; TANK
                DB   $FF,$FF            ; END OF DATA
LEV1BADY      DB   $04,$05,$20,$30    ; TANK TOP
                DB   $FF,$FF            ; END OF DATA
LEV1BADX2     DB   $FF,$FF            ; END OF DATA
```

; ** PRT TANK **
; *****

```
L1KILLTANK    XOR  A:LD  (NOSROLL+1),A:LD  (L1PRTTANK+1),A
                LD   (ISBIGON),A:PUSH BC:PUSH IX
                LD   DE,(L1TANKX+1):LD  A,D:ADD  A,$10:LD  D,A
                PUSH DE:LD  A,E:ADD  A,$10:LD  E,A:CALL INITEXPNOEND:POP  DE
                PUSH DE:LD  A,D:ADD  A,$20:LD  D,A:CALL INITEXPNOEND:POP  DE
                LD   A,E:ADD  A,$20:LD  E,A:CALL INITEXPNOEND
                POP  IX:POP  BC:RET
```

```
L1CHTD        LD   A,(L1TANKD+1):NEG  :LD  (L1TANKD+1),A:JR  L1GTNK
```

```
INITTANK1     LD   A,1:LD  (L1PRTTANK+1),A:LD  A,-4:LD  (L1TANKD+1),A
                LD   A,$20:LD  (BIGHITS),A:LD  A,13:LD  (L1TNM+1),A
                CALL GETDATA:LD  D,A:LD  E,$D8:LD  (L1TANKX+1),DE
                LD   A,8:JP  PLAYMUSIC
```

```
L1PRTTANK     LD   A,0:OR  A:RET  Z
```

```

LD (ISBIGON),A:LD (NOSROLL+1),A

L1TANKX LD DE,$FFFF:LD A,E
L1TANKD ADD A,0:CP $D8:JP NC,L1CHTD:CP $70:JP C,L1CHTD
LD E,A:LD (L1TANKX+1),DE

L1GTNK LD A,(POS):AND $13:JR NZ,L1TANKZ

LD DE,(L1TANKX+1):LD A,E:ADD A,$18:LD E,A
PUSH DE:LD A,D:ADD A,$18:LD D,A
LD A,(HEROX+2):ADD A,$10:CP D:LD L,13:JR C,L1FHU
SUB $10:CP D:LD L,12:JR C,L1FHU:LD L,11
L1FHU LD A,L:LD (L1TNM+1),A:POP DE:LD A,D:ADD A,$08:LD D,A
LD A,L:LD B,4:CALL INITBAL

L1TANKZ LD DE,(L1TANKX+1)
LD A,3*4:LD (PRTSPRBLP-1),A
PUSH DE:LD A,E:ADD A,$10:LD E,A:PUSH DE
L1TNM LD A,0:SUB 12:NEG :INC A:LD DE,192
LD HL,L1TANKTURRET1:CALL MULT:POP DE:CALL NC,PRTSPR:POP DE

PUSH DE:LD A,E:ADD A,$10:LD E,A:LD HL,L1TANKATRS1
LD BC,$0403:CALL BAXATR:POP DE
LD A,D:ADD A,$18:LD D,A
PUSH DE:LD HL,L1TANKATRS2
LD BC,$0904:CALL BAXATR:POP DE

PUSH DE:LD A,E:ADD A,$18:LD E,A:LD HL,L1TANKMID2
LD BC,$0308:CALL NC,BAXIT:POP DE

PUSH DE:LD HL,L1TANKMID1
LD BC,$0308:CALL MASKCXB:POP DE

PUSH DE:LD A,E:ADD A,$30:LD E,A:LD HL,L1TANKMID1
LD BC,$0308:CALL NC,MASKCXB:POP DE

LD A,D:ADD A,$0F:LD D,A
PUSH DE:CALL L1PRTWHEEL:POP DE
LD A,E:ADD A,$18:LD E,A:JR C,L1FKJ
PUSH DE:CALL L1PRTWHEEL:POP DE
LD A,E:ADD A,$18:LD E,A:JR C,L1FKJ
L1PRTWHEEL LD A,(POS):AND 2:LD HL,L1TANKWHEEL1:JR Z,L1WEEL
LD HL,L1TANKWHEEL2
L1WEEL PUSH DE:LD BC,$0304:CALL BAXIT:EX DE,HL:POP DE
LD A,D:ADD A,8:LD D,A:LD BC,$0308:CALL MASKCXB
L1FKJ LD A,(L1TANKX+1):ADD 16:LD L,A:LD H,31:LD (BIGX1),HL
LD HL,(L1TANKX+2):LD H,$37:LD (BIGY1),HL:RET

L1TANKMID1 DBH FF00FF000001007EFC00FF00FF00E003
DBH 00800060001CFF00FC0000E300800080
DBH 001FF803F004007C006000F60063E009
DBH E00B001F0086004E00FCC012C01600E3
DBH 00BC006A001F8025802C00F5007C006A
DBH 00AB0043007D00550074000000000040

L1TANKMID2 DBH C400460100001FFFFE0000001FFFFE56
DBH 6B3D7FFFE4620558064CCC660002766
DBH CFCFF53255AA854F553255AA8000000

L1TANKWHEEL1 DBH 000000FCFF3F7FFFE0E007070360E8E80747A001E2C2A30
DBH C000008103000114002A802080210076
DBH 01840002007F00400041003E00820002
DBH 006D0040004100560082000200810040
DBH 8020002A0104010400008020C0100000
DBH 030807100000E008F0060000F601F80
DBH 0081F801FE00007E7F00FF008100FF00

L1TANKWHEEL2 DBH 000000FCFF3F7FFFE0E007070360E8E80747AB69EAC8032
DBH E002000007200328002AC01080200080
DBH 010C0194003C80210040005A00020042
DBH 00BD0042004000BD00020042005A0042
DBH 00400024008200020001004180200054
DBH 0104010400008020C0180000031807E0
DBH 0000E007F80000FF1F00FF000000FF00

L1TANKTURRET1 DBH FF00C00083008300017C007C803FFF00
DBH FF0080210083008600120079802EFF00
DBH FF00004E00E4008A000A0006005CFF00

```

DBH FF0000580066002A00CA000D0000C000
 DBH 803F0098003900E200E2000300CB005F
 DBH 005F009900C701B4011400DF000B0055
 DBH 004A0018006E0032005200BC000B0050
 DBH 004000180058002200A0020008803F
 DBH C000001800000052002200FE0058FF00
 DBH FF00005800FF0104010C0083005AFF00
 DBH FF000058009B0072000A00AB0042FF00
 DBH FF00007C009B0076090000008000FF00

L1TANKTURRET2

DBH FF00810083008300017C007C007EFF00
 DBH FF00004300830086001200790059FF00
 DBH FF00005C00E4008A000A0006004CFF00
 DBH FF00004E0026002A00CA000D0010C000
 DBH 803F00D6003900E200E2004300E2006F
 DBH 004700F6006701B40194007700420045
 DBH 00460086001B00320052006F00020044
 DBH 0068000600160022000A000800C2803F
 DBH C000000600000052002200FE0056FF00
 DBH FF00005600FF0104010C00830056FF00
 DBH FF000056009B0072000A00AB0060FF00
 DBH FF00803E009B007609000000C000FF00

L1TANKTURRET3

DBH FF00010083008300017C007C00FEFE00
 DBH FE000083008300860012007900B9FE00
 DBH FE00009E0024008A000A008600A7FE00
 DBH FE00009900C6002A00CA000D0006E000
 DBH C01F00E200D900E200E2004300F28033
 DBH 802100F800C301F401D4005B00508021
 DBH 802100A000DD00B20092004700008021
 DBH 8032000000D30022000A004800F0C01F
 DBH E000000000000052002200FE0082FE00
 DBH FE00008200FF0104010C00830082FE00
 DBH FE00008E009B0072000A00AB00E0FE00
 DBH FF00003E009B007609000000C000FF00

L1TANKATRS1

DBH 00444545
 DBH 44044545
 DBH 00040445

 DBH 45454400
 DBH 45450444
 DBH 45040400

L1TANKATRS2

DBH 000007444444070000
 DBH 000707040404070700
 DBH 0505050505050505
 DBH 004600004600004600

INITJEEP

XOR A:LD (JEEPACT+1),A
 INC A:LD (PRTJEEP+1),A
 LD A,8:LD (JEEPX+1),A
 RET

KILLJEEP

XOR A:LD (PRTJEEP+1),A:RET

PRTJEEP

LD A,0:OR A:RET Z
 LD A,(MAPY):CP \$F0:RET Z
 LD A,(MAPX):LD E,A

JEEPX

LD A,0:SUB E
 JP C,JEEPACT:CP 26+5:JP NC,JEEPACT

JEEPANI EJHA

SUB 3:ADD A,A:ADD A,A:ADD A,A:LD E,A:LD D,\$40
 LD A,0:AND 1:LD HL,JEEPSR1:JR Z,EJHA:LD HL,JEEPSR2

 PUSH DE:LD BC,\$0803:CALL BAXATR:EX DE,HL:POP DE:PUSH DE
 PUSH DE:LD BC,\$0804:CALL MASKCXB:POP DE
 LD A,D:ADD A,\$08:LD D,A
 PUSH DE:LD BC,\$0808:CALL BAXIT:EX DE,HL:POP DE
 LD A,D:ADD A,\$10:LD D,A
 PUSH DE:LD BC,\$0804:CALL MASKCXB:POP DE:POP DE

NXBAD

LD IX,BADDAT:LD B,NOBAD
 PUSH DE
 LD A,(IX+ACTION):OR A:JR Z,KPBAD:CP 3:JP Z,KPBAD
 PUSH DE:LD D,\$3F
 LD L,(IX+XPOS):LD H,\$1F:CALL HITA:POP DE:JR C,KPBAD
 PUSH DE:LD A,D:ADD A,8:LD E,A:LD D,\$17
 LD L,(IX+YPOS):LD H,\$10:CALL HITA:POP DE:JR C,KPBAD

```

CALL SETFALL
KPBAD LD DE,BADLEN:ADD IX,DE:POP DE:DJNZ NXBAD

XOR A:LD (ONJEEP+1),A
LD A,(GUNDIR+1):INC A:JP Z,NOTONJ
LD A,(HEROF+1):OR A:JR Z,NAJU
LD A,(HEROG+1):OR A:JP M,NOTONJ
NAJU PUSH DE:LD A,(HEROX+1):ADD A,8:LD L,A:LD H,$0F
LD A,E:AND $F8:LD E,A:LD D,$2F
CALL HITA:POP DE:JR C,NOTONJ
PUSH DE:LD A,(HEROX+2):ADD A,0:LD L,A:LD H,$0F
LD E,D:LD D,$0F:CALL HITA:POP DE:JR C,NOTONJ

LD A,E:AND $F8:ADD A,$20:LD E,A
LD A,(HEROX+1):CP E:JR C,NAIL
SUB 8:LD (HEROX+1),A:LD (GUNX+1),A
NAIL

LD A,D:SUB $04:LD (SHIM+1),A
XOR A:LD (HEROF+1),A:LD (HEROG+1),A
INC A:LD (STH+1),A:LD (ONJEEP+1),A

LD A,(GUNDIR+1):CP $FF:CALL Z,FEST

LD A,(HEROP+1):AND 7:OR 16:LD (HEROP+1),A
LD A,(GUNDIR+1):AND 7:LD (GUNDIR+1),A
LD A,(FUDLR):AND $0F:JR NZ,NOTONZJ
LD A,(HEROP+1):OR 24:LD (HEROP+1),A
NOTONZJ LD A,(HEROCRAWL+1):OR A:JR Z,NOTONJ
LD A,(GUNDIR+1):AND 7:OR 56:LD (GUNDIR+1),A
LD A,(HEROP+1):AND 7:OR 40:LD (HEROP+1),A
NOTONJ

JEEPPACT LD A,0
LD HL,JEEPACTIONS:CALL ADDHLA
LD A,(HL):INC HL:LD H,(HL):LD L,A:JP (HL)

JEEPACTIONS DW JEEPRT,JEEPWAIT,JEEPLT,JEEPWAIT

JEEPLT LD A,(POS):AND 1:RET NZ
LD HL,JEEPX+1:LD A,(HL):OR A:JP Z,KILLJEEP
XOR A:LD (JEEPWAIT+1),A
LD A,(JEEPANI+1):CPL :LD (JEEPANI+1),A
DEC (HL):RET

NEXTACT LD A,(JEEPPACT+1):ADD A,2:AND 6
SETACT LD (JEEPPACT+1),A:RET

JEEPRT LD A,(POS):AND 1:JR NZ,ONJEEP
LD HL,JEEPX+1:LD A,(HL):CP $78:JR Z,NEXTACT
LD A,(JEEPANI+1):CPL :LD (JEEPANI+1),A
LD A,40:LD (JEEPWAIT+1),A
INC (HL):RET
ONJEEP LD A,0:OR A:RET Z
LD A,(HEROX+1):ADD A,8:LD (HEROX+1),A:LD (GUNX+1),A
CP $B0:JP NC,SETSCRRIGHT
RET

JEEPWAIT LD A,0:DEC A:LD (JEEPWAIT+1),A:RET NZ
JR NEXTACT

JEEPSPR1 DBH 0000464600000000
DBH 4444444545444446
DBH 040404040440404
DBH FF00FF00801C003CF800FF00FF00FF00
DBH FF00FF007F00700000420022FF00FF00
DBH FF00FE00004900BD20073F00FE000F00
DBH 0700FC001F80000B00710056FE00FF00
DBH FF00FE00005F00C500081F00F80103F0
DBH 0310F0020FC0008500CA002FFF00FF00
DBH FF00FF00801000BD001007E0E0040350
DBH 0310E000037000280032C00EFF00FF00

DBH 1E7CE1461C7774003E1E3B1839BF8922
DBH 40F3D676C23A8D429A681D3577000048
DBH 51B7573BE21C002A82DB1C80DED6B41
DBH 41B5D71C3D9D2D02927A9CAF816B6841
DBH 4000004A075C000EF0FF9882209E3D43
DBH 424003100011FFF81C80E3768F018040
DBH 4100C0C62D46000E16038C366102004A

```

DBH 3A0001319B180008041C305698800308
DBH E00C00040042008C0028006000220114
DBH 000A005900C0000000460021000BE000
DBH E00400170091004300FF008000B008A
DBH 008400B40050000000BC00900016F002
DBH F002000B0020008300FF009000590004
DBH 0108002200080000000000410004F801
DBH FC00008300827C0000006004001C0310
DBH 07600000F003FF00FF00000C0060FE00

JEEPSR2

DBH 0000464600000000
DBH 4444444545444446
DBH 040404040440404
DBH FF00FF00F0000100FF00FF00FF00FF00
DBH FF00FF00FF00F80000BCC007FF00FF00
DBH FF00FF008008004270007F00FF00FF00
DBH 0F00FE003F00200700BD0037FF00FF00
DBH FF00FE00004F00F1000B1F80FC000700
DBH 03F0F8011F00000800E500BEFC00FF00
DBH FF00FE000047004A00850FC0F0020310
DBH 0350E00407E00010003D0038FF00FF00

DBH 00000632287000100074771C46E17C1E
DBH 2289B3F39183B1E3E428D3AC276D6F340
DBH 48000077351D689A2A001CE23B57B751
DBH 416BED00D81CDB82022D9D3D1CD7B541
DBH 41686881AF9C7A920E005C074A000040
DBH 433D9E208298FF0F8FF110010034042
DBH 4080018F76E3801C2E01462DC6240041
DBH 4A039261368C1C964822189B3149043A

DBH E008000900A1001800560030004D0108
DBH 0084009A00600028008C00500013E00C
DBH E002001300D00086000000C0009E0084
DBH 0108004D008800FF000300A10009F001
DBH F80100040045007C0000006800220128
DBH 0350001C008400FF0003008A0083FC00
DBH FE00004000040000000000020000720
DBH 0FC0008078010000FC0001180030FF00

LEVEL1END

L1CHRS

DBH FFFFFFFFF7BDF6AFFFFFFFFFFFFEBB5
DBH 00AA0055FFFFAA00FFFFFFFFBFFFD368D
DBH FF7FFDFFD7AB10408F337C4F230802
DBH 00FFFFFFFF3CFF33C40707C7F7F7F7F7F
DBH 8F220802C0F0CFF00FFFFFFFFFFFFFFF
DBH 000853204422552A00FF7FFF3F0F0388
DBH 3F0FC3F0CFFFFFFFFFFFF000FEFF0000
DBH FEFF000FEFF0000007FC0958AC07F00
DBH 00FF0055AA00FF0000FF00FE0FFFEFF
DBH 2200C0F00CFF00FF3E4FA3542A05C250
DBH 1FE719FE03FF00FF4040434F7CF2C52A
DBH 54A00000040404000FC06528206FC01
DBH FAEAF0E0D0ECD2FEFEFEFEFEFEFEFEFE
DBH 1E0E1E0E1E0E1E0E40482018E4F40A0D
DBH 7F9F0CA113000400EEFE0E0EEFE0E0E
DBH A04020180E0200002253691018650C00
DBH 29346B1D0B47220021DB7FEDB2B71200
DBH 71A870D8F4A830000CEFF7FF07FFFFF
DBH 007BBDFF7FFBFFFFFFFFFFFFFFFFFFFFF
DBH 7F7F7F7F7F7F7F7F188D53E8F4BAFC6E
DBH 40704C535C5F5F5F8040E0D0F8D4AA10
DBH 713B1F0E07030100C7AE1C3875E3C7EE
DBH 0000FF0055FFFC01CBA71E3D78E1CBA
DBH 24124824124824120000CFB06B85F2C2
DBH 0000FF0055FF00777F7070777F7070
DBH 2A150A51245626563E4FA354AA150A01
DBH 2656265626572354000202020202C2F2
DBH 0202C2F23E4FA3542A150A0100020202
DBH 142A142A142A142A7CF2C52A54A04000
DBH 004040404040434F54A8508A246A646A
DBH 646A646A64EAC42AFF4400FF4400FF44
DBH FFFF5500FFFF0000000AA000000000
DBH FAF5202F8FF00007F80671906616062
DBH 00DFE0F93E4E724C636323C300FFFF00

DBH 9F6719C6007E00026A526A5200FFFF00
DBH 0008E2F800FFFF00FA6EB8FC5E3A7CFE
DBH 00FF000000FFFF0000FF0000FF00FF00
DBH 00FF2222FFFF222243717D4F43717D4F
DBH 7F7F7070777F7070FEFE0E0E0E0E0E0E
DBH 007F0000003F7F00FFDD9999FFDD9999
DBH FEDA9292FEDA9292003F62227F3F6222
DBH FFFF2222FFFF22227F3F62227F3F6222
DBH 00FF005500000000AA5500FC0040A0
DBH 008000010204081100008C003C000054
DBH 000014101710101500002010000040
DBH 00AA5500BF40201000A04303FB0202A2
DBH 0000FDFCFD04347400FE005400010000
DBH 7F5D990107010005007F005500008000
DBH 7F5D99006590005E00AA55007F402010
DBH 400000010200FFFF22408F000000FFFF
DBH AA0045ABDDFF7FFAA0055BADFEFFFFF
DBH A800FC000000FFFF121017101000FFFF
DBH AA0045B7DBFFFFFA000FC000000FFFF
DBH 090402010000FFFF4202FA028200FFFF
DBH 357435743400FFFFA900FE000000FFFF
DBH 000003CC33CCF3FC000055EB3FCF33CC
DBH 00AA55AA55AA00002200220022002200
DBH 0000A2D1EFDEFB500002AF78FC7E7C1
DBH 00A2418A55AA000000AA55A855A80100
DBH 00AA152A5580040000002AF58FC7E7C1
DBH 0000315BEFDEFB5002A45A251AA0000
DBH 00AA458A55AA00000000FFFF00000000
DBH 0000FFFF00008A04AA000000FFFF0000
DBH 8E0E1F00FFFF0000000087CC090B0B0B
DBH 0000FF00DBA54A420B0B0B0B0B0B0B0B
DBH A5DBE7FFFF00FF000000FF00FFFF0000
DBH 00FFFFFFFFFF00FF000003FD06E2F2F2
DBH F2F2F2F2E206FC0000000000FFFF0000
DBH 00181C3EFEFC000000003F7F00000020
DBH 421408502040800100070F1E3C78F1E2
DBH 0080002050A14387C58A142850A14387
DBH 0F1E3C78F0E0C080CAE5F2793C1E0F07
DBH 3C1E8F47A351289400000000C0E0F078
DBH 3D1E8F47A3512894FFED4989DFE9F179
DBH 003F0700010101000F18111211180F
DBH 01F80651A85400FF0000FF00FF000000
DBH 0000FE00FE020202CAE5F2793B160C1F
DBH 300F78C52A5500FF28D66820A22562C0
DBH FCF2C52A55A8508001010101010101
DBH 0000000000000000000000001006510005E
DBH 0010C4F000FEFE0000FF0000007FFF00
DBH 007FC444FF7FC444FEFE4444FEFE4444
DBH FFFFFFFF000000000000000000000000
DBH FEEE0E0E0E0E0E0E0E0E0E0E0E0E0E0E
DBH 0104C1F1FCFFFFFF00FF5500000000
DBH FF00FF550000C030FF00FE5500000000
DBH 55AA55AA55AA55AA00706143070F1E3C
DBH 00F0E1C3870F1E3C78706143070F1E3C
DBH 003F212529253F00007F7F7F7F7F7F7F
DBH FFFFFFFF3F0F130055AA55AA154AB14C
DBH 3F202F2F2F203F00FF00FFFF00FF00
DBH FF07E7E7E707FF00FFFFF7F9FE739FE
DBH 000000C030CCF3FC2000200020002000
DBH 9088884A438596A63614462056265424
DBH EFFF7D3F6FF7BFD7B7EEFB74F3F77DFBF
DBH FFFFE3D951C9A3FF3714442056661582
DBH 5FF7DF7EBFFFFBF5FF7DD42196EFFBF
DBH FFFFD0A40273DFF7BFFBE04B1DEEFFF
DBH FFFFD2288C6C5CFF7F9FEFEEDF3FFEE
DBH CF951B9FBF3F3D9FFFEFD39A5DDF5FEFF
DBH FF6FFEF5BE5DAA10FFBFFFD7BA5DAA51
DBH FFFFF7DFBE6F8A10FEFFDFBBD73B5681
DBH FFFFF55FAB576488304E81A7578380A2
DBH 00773A5FFBFF77F8220004924000024
DBH 2400420010400000007ABDF7FFBFFFF
DBH 0044224002000000DDFFFFFFF0000000
DBH 4008004811400000002001004000024
DBH C3EFFFDF0000000080E3FDDFF0000000
DBH 0080C3FFFFFFF00E3FFDFF000000000
DBH 8F220802C0300C305F5F5F5F5F5F5F5F
DBH 3F3F3F3F3F3F3F3F3F3F3F3F3F3F3F3F
DBH 142AC4F20CFF00FFFEFEFEFEFE3ECE52
DBH 3F4F733C4F230802FFFFFFF3CFF33C
DBH 040C04CDC4CCC4CD000000FF005500FF

DBH C4CD450D050D05C3C5CDC5CD050D05CD
DBH 41A0F0F8DCFEFFFC5CDC5CDC5CDC5CD
DBH 030303C3005500C3C3C3C3C3C3C3C3C3
DBH C0C0C0C3C3C3C3C37F8F629800FEFE00
DBH 0F1E3C78F7EFC0800301C0E03048A054
DBH 0301004020502054C0E0F0793C1E0F07
DBH 030100000000C0F003012020783C6222
DBH 030100000000000030100000060704E
DBH 00710A84C0E4F378461AC2F20CFF00FF
DBH FEFF00007E3F8050

L1ATRS

DBH 07074507074747474747074747464645
DBH 45474707474646454646064607460507
DBH 07060507074647074707454507450707
DBH 074607070707074746464646474747
DBH 47060606470606460606460746460646
DBH 46064606474747474747474747474647
DBH 46474747070747470747474747470606
DBH 05050606050505060605054747474747
DBH 47474747474747474747474747474747
DBH 47474746474747474747474746474747
DBH 06060646470646474706060607474747
DBH 45454707454545470605050546464605
DBH 464646464646464646464646460706
DBH 060706070606464646464747474746
DBH 47470746070707074646460647474747
DBH 47464747474746

L1BLOX

DBH 00010202030402020506070809090A0B
DBH 090C09090D050E070609080F09091010
DBH 09111010121310171114101009090F10
DBH F5F610171B1C1D1E00011F2003042122
DBH 00291F20E2E3E424E8E5E6E4E2E3E725
DBH E8E5E9E728DADBDCDBDCDBDCDBDC27DD
DBH DEDF10171505160714B71010B71A101A
DBH 3605370726A4E0E14041424344404546
DBH 3E3E3F42384738193B403C4248494A4A
DBH 4B4C4B310D4D0E1D3F4B4E493B4B3C46
DBH 42484B4F48484F4F464E50514B314B31
DBH 0E1D0E1D51A53523B4D3C1D4B4F4B4F
DBH 4F4F4F4F5049500D5454555654545758
DBH 5454595A54545B5C5D4F575E4F5F6061
DBH 6263646566676865696A64656B6C6865
DBH 6D6A64656E6F70717273707472737576
DBH 7778797A7B7C7D7E7F808182838484
DBH 83808482857B867D7C337E8736358833
DBH 897B167D7C7F7E818083828480858286
DBH 4B8A8A8B8B8C8D8E8E8E4B4E4990918F90
DBH 373391351539168A8A8B8B8D8C8E8E3A
DBH EB524D94959697979A9B979815959497
DBH 968E9798159C163A999A97979B49980D
DBH 5D9D579D9E5F9F61A0A150A246A34D49
DBH 0E260E26A4A5A1A36A5371A37A5361A
DBH 3B4D3CA6A71A09A8A9A9AA9AB1AA9A9
DBH 371AAB1A26A426A4ACACACACADAEAFB0
DBH AEAEB1B0AE33AF35371A361A15261626
DBH 500D500D27B20202ACAC02B3AFB4AFAE
DBH B5B6AEAEAF09AF10091A101A1539163A
DBH 48A04F50B83370B915A5161A3B1A3C1A
DBH 4F504F50A50E1A0E51A5531A32A5341A
DBH 163A1539A54A1A52321A341A4FA54F1A
DBH 50A5501A1A521A521A421A4B481A4F1A
DBH 4F1A4F1A501A501A1A521A491A4B1A4B
DBH 2ABA2CBBBC25BD25252525252525BE25
DBH 3EBF3FBAC025BC2525BE8E2548BB4ABF
DBH C1C2BC25C3C32525C2C125BEC2C4C5C6
DBH C2C12525C3C325BE8EBA4DBBBD25C025
DBH 252525BE8E252525C72525251DBF1DBA
DBH BC25C8C9BE25C8CA2525CBCC2525C8CA
DBH BE25CBCC1DBBCDCECFD0D123CFD224D3
DBH D4D52423D4D52324CFD2D3239E9ED6D7
DBH 9E9ED8D9323334353635373337333635
DBH 1D2E2C2E3E2E482E3D3D3D3D38A5381A
DBH 061A081AA41AA41A3B313C2F36263726
DBH 381838191A091A103E3E3F3F1539163A
DBH 2A2B2C2C2D2E2F30311D2C2F2B2D2C2C
DBH 25EACAE9CFEA24E6C3EA25E925EA25E9
DBH 9E9ED9E9EB524D49EC1D981DE999497
DBH EEEF34F04BF14B943BF23C468F90F38F
DBH F4489293

[illegible]

DBH 8E928E8E9C9D9D8E8E9C9D9D69959995
DBH 999697989999697981D9C9D9C8E8E9E
DBH 8E9D9D8E9E8E15A1A2A1A2A2A4A2A2
DBH A2A2A16A6A7A89AAAAA67A9AA6A6A6
DBH 170E0F0E0F0E0F0E0F0E0F0E0F10ABAC
DBH ABACABACABAC41314ABAC8E8E8F8F8E
DBH 9C8E8EC1313148F8E8E928E8E9C9D8E
DBH C1314928E8E8E8E8E8E9C9D9D8C1314
DBH 8E8E959959996979898C2131498989C
DBH 8E9C8E8E9E9C9C313149C9C1A2A1A2
DBH A2A2A44A4C01314A1A1A6A7A89AAAAA6
DBH A7C1112A8A80E0F0E0F0E0F0E0F0E0F
DBH 0E0F0EABACABACABACABACACACACAC

[illegible]

* * * * *

```

*****
;
** END OF FILE
*****

```

```
*****
;
** LEVEL 2 STUFF ( DATA , SPRITES AND PROGRAMMING ) **
*****
```

```

RESETLEV2BAD  XOR  A: LD  (ISBIGON),A
               LD  (PRTARMYCHOC+1),A
               LD  (PRTCOGS+1),A: LD  (PRTCHOC+1),A: LD  (L2PRTTANK+1),A
               LD  HL,L2TANKATRS1: LD  (TANKATRS+1),HL
               LD  HL,L2KILLTANK: LD  (KILLBIG+1),HL
               LD  HL,L2TANKTURRET1: LD  (TUR1),HL

```

```

LD HL,L2TANKTURRET2:LD (TUR2),HL
LD HL,L2TANKTURRET3:LD (TUR3),HL

LD HL,BAR2:LD DE,BCR1:LD BC,3*5:LDIR

LD IX,COGS:LD B,24
RESPLAT LD (IX+00),8:INC IX:DJNZ RESPLAT
RET

BAR2 DW BADDYCRAWL21:DB 12,16,12; BAD CRAWL
DW BADDYCRAWL22:DB 12,16,12; BAD CRAWL
DW BADDYCRAWL23:DB 12,16,12; BAD CRAWL

;*****

FLOOR2 DB 3+2+3+2+8+2+2+4+1+4+1
DBH 840001
DBH 0203
DBH 040705
DBH 062F
DBH 3108090AZ92C0B0C
DBH 5E85
DBH 3231
DBH 24222321
DBH 20
DBH 0D0E0F10
DBH 2D

WALL2 DB 2+2+2+1+2+3+2+2+2
DBH 114D
DBH 1312
DBH 1415
DBH 28
DBH 1716
DBH 1B182E
DBH 191A
DBH 5554
DBH 7019

;*****

LEV2BADX DB $10,$01,$64,KEY ; BADDY
DB $18,$01,$64,KEY ; BADDY
DB $20,$00,$40,JUMP+KEY; BADDY
DB $38,$FF,$38 ; TANK
DB $50,$01,$64,KEY ; BADDY
DB $58,$01,$64,KEY ; BADDY
DB $60,$00,$40,JUMP+KEY; BADDY
DB $78,$02,$40,JUMP+KEY; BADDY
DB $80,$03,$64,KEY ; BADDY
DB $88,$03,$64,KEY ; BADDY
DB $94,$04,$E0,$50 ; TANK TOP
DB $96,$FB,$05 ; SCROLL
DB $FF,$FF ; END OF DATA

LEV2BADY DB $0E,$FD ; CRAWL ARMY
DB $16,$FD ; CRAWL ARMY
DB $1E,$FD ; CRAWL ARMY
DB $22,$FD ; CRAWL ARMY
DB $28,$04,$B0,$80 ; TANK TOP
DB $32,$05,$40,$30 ; TANK TOP
DB $36,$FE,1 ; PLATFORMS ON
DB $55,$FE,0 ; PLATFORMS OFF
DB $56,$FC ; CHOCOLATE BAR
DB $68,$04,$C0,$80 ; TANK TOP
DB $FF,$FF ; END OF DATA

LEV2BADX2 DB $C0,$01,$64,KEY ; BADDY
DB $C6,$01,$64,KEY ; BADDY
DB $FF,$FF ; END OF DATA

;*****
; ** PRT CHOCOLATE BAR **
;*****

SMODARMY LD A,(PRTARMYCHOC+1):OR A:RET Z
LD A,(ISSUEY+3):ADD A,H:LD (ISSUEY+3),A:OR A:RET P
XOR A:LD (PRTARMYCHOC+1),A:RET

ARMYISSUE LD A,$54:LD (ISSUEY+3),A:LD A,12:LD (ARMYCNT+1),A
LD A,1:LD (PRTARMYCHOC+1),A:RET

```

```

PRTARMYCHOC LD A,0:PUSH AF:CALL PRTCHOC:POP AF:OR A:RET Z
ARMYCNT LD A,0:INC A:LD (ARMYCNT+1),A:AND $0F:RET NZ
CALL FINDDEAD:RET NZ
ISSUEX LD A,(ARMYCNT+1):AND $10:SUB $10:AND $E0:LD (IX+XPOS),A
ISSUEY LD (IX+YPOS),$54:LD (IX+TEMP),0
LD (IX+PHASE),0:LD (IX+COUNT),$04
BIT 7,(IX+XPOS):JR Z,AFTER2
LD (IX+PHASE),4:LD (IX+COUNT),$FC
AFTER2 LD (IX+TYPE),7:LD (IX+ACTION),8:RET

INITCHOC LD A,1:LD (PRTCHOC+1),A:LD (NOScroll+1),A
LD A,4:LD (CHOCd+1),A:LD HL,$58B0:LD (CHOCX+1),HL
LD HL,KILLCHOC:LD (KILLBIG+1),HL
LD A,$60:LD (BIGHITS),A
LD A,3:JP PLAYMUSIC

KILLCHOC XOR A:LD (NOScroll+1),A:LD (PRTCHOC+1),A
LD (ISBIGON),A
PUSH BC:PUSH IX:LD DE,(CHOCX+1)
PUSH DE:LD A,E:ADD A,$20:LD E,A:CALL INITEXPNO:POP DE
PUSH DE:LD A,E:ADD A,$40:LD E,A:CALL INITEXPNO:POP DE
CALL INITEXPNO:POP IX:POP BC:RET

PRTCHOC LD A,0:OR A:RET Z:LD (ISBIGON),A
CHOCANI LD A,1:XOR $40:LD (CHOCANI+1),A

CHOCX LD DE,$58B0:LD A,E
CHOCd ADD A,4:LD E,A
CP 8-$20:JR Z,SWAPCHOC
CP $F8-$40:JR NZ,NOSWAPCH
SWAPCHOC LD A,(CHOCd+1):NEG :LD (CHOCd+1),A
NOSWAPCH LD (CHOCX+1),DE

PUSH DE:LD HL,CHOCATRS:LD BC,$0C04:CALL BAXATR:POP DE

PUSH DE:LD A,E:ADD A,$20:LD E,A:LD HL,CHOCENG
LD BC,$040C:CALL BAXIT:POP DE

LD A,(POS):AND 2:JR NZ,SKPMID:PUSH DE
LD HL,CHOCMID:LD BC,$0204:LD A,E:ADD A,$28:LD E,A
LD A,D:ADD A,$10:LD D,A:CALL BAXIT:POP DE

SKPMID LD A,D:ADD A,8:LD D,A:PUSH DE
LD A,E:ADD A,8:LD E,A
LD HL,CHOCWING:LD BC,$0308:CALL BAXIT:POP DE
PUSH DE:LD HL,CHOCWINGM:LD BC,$0108:CALL MASKCXB:POP DE
PUSH DE:LD A,E:ADD A,$40:LD E,A
LD HL,CHOCWING:LD BC,$0308:CALL BAXITMIR:POP DE
PUSH DE:LD A,E:ADD A,$58:LD E,A
LD HL,CHOCWINGM:LD BC,$0108:CALL MASKCXB:POP DE

LD A,D:ADD A,$10:LD D,A
LD HL,TRACK1:LD A,(POS):AND 1:JR Z,GOZO:LD HL,TRACK2
GOZO PUSH HL:PUSH DE:LD BC,$0404:CALL BAXIT:POP DE:POP HL
LD A,E:ADD A,$40:LD E,A:LD BC,$0404:CALL BAXITMIR

LD HL,(CHOCX+1):LD A,H:LD H,$60:LD (BIGX1),HL
LD L,A:LD H,$28:LD (BIGY1),HL

CHOCFIRE LD A,0:INC A:LD (CHOCFIRE+1),A:AND 7:RET NZ
LD DE,(CHOCX+1):LD A,(CHOCFIRE+1):AND $070
RET Z:CP $070:RET Z
CP $040:JR C,FJF:ADD A,$20
FJF ADD A,E:LD E,A:LD A,0:LD B,4:JP INITMIS

CHOCATRS DBH 000000000404040400000000
DBH 000404040404040404040400
DBH 000404040406060404040400
DBH 060606060000000006060606

CHOCWING DBH 03F8FE030D74F5E97AF4D20B6D2F4E8
DBH A5D7D7A5E81048A03F8FE01050400000
DBH 00C00F3F7FDF0F0DF7F7FDF0E4AFBF

CHOCWINGM DBH FF00FF00FF00FC00F803F006E00EC01D
DBH 803C8038007006000428045C04AE005

CHOCENG DBH 3FA5FFFC0200FF40BF007FF9F13F1C9E

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DBH 8E3E1FE101003E80847F1541A12A0082
DBH 45555542040000201FFFFFFF804000040
DBH ZAAAAA8505555152A0000A951FFFFFF90
DBH 4100008AFD2008BF7E19307E7DB7DABE
DBH 7E9B837E7DB7DABE5E19307AFC20083F

TRACK1
DBH 00000000C000D0BDF7DF76F0BEEF9B
DBH 40000002F67DDF6737DF7DF408822008

TRACK2
DBH 000000001E000060D77DF7C398EFFBCE
DBH A00000017DDFF73D1DF7DF7D82200802

CHOCMID
DBH 0000800206C0DFF6E6CFDFF606C08002

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;*****
;
; ** PRT COGS WITH PLATFORMS **
;*****
;

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SMODCOGS      CALL SMODARMY
               LD A,(PRTCOGS+1):OR A:RET Z
               LD IX,COG1:LD DE,6:LD B,6
SMODALLXBLP5  LD A,(IX+02):ADD A,H:LD (IX+02),A
               ADD IX,DE:DJNZ SMODALLXBLP5:RET

INITCONVEYOR  CALL GETDATA:LD (PRTCOGS+1),A:OR A:RET Z
               LD A,1:LD (PRTCOGS+1),A:PUSH IX:PUSH DE:PUSH BC
               LD IX,COG1:LD B,3:LD DE,6:LD A,$78
INITCONV      LD (IX+01),$18:LD (IX+02),A:ADD IX,DE
               LD (IX+01),$C8:LD (IX+02),A:ADD IX,DE
               ADD A,$28:DJNZ INITCONV:POP BC:POP DE:POP IX:RET

PRTCOGS       LD A,1:OR A:RET Z
COGNUM        LD A,0:CPL :LD (COGNUM+1),A
               LD HL,COGSP1:OR A:JR Z,FEMO:LD HL,COGSP2
FEMO

COG1          LD DE,$0818:CALL PRTCOG:LD DE,$08C8:CALL PRTCOG
               LD DE,$3018:CALL PRTCOG:LD DE,$30C8:CALL PRTCOG
               LD DE,$5818:CALL PRTCOG:LD DE,$58C8:CALL PRTCOG

               XOR A:LD (HAD1+1),A
               LD IX,COGS
               LD C,-8
               LD DE,(COG1+01):LD (PLAT1),DE:CALL PRTPLATCOGS
               LD A,(PLATX+1):XOR $18:LD (PLATX+1),A
               LD C,8
               LD DE,(COG1+13):LD (PLAT2),DE:CALL PRTPLATCOGS
               LD A,(PLATX+1):XOR $18:LD (PLATX+1),A
               LD C,-8
               LD DE,(COG1+25):LD (PLAT3),DE:CALL PRTPLATCOGS

               LD A,(POS):AND 3:CP 1:JR Z,HASBEEN:OR A:RET NZ
               LD A,(PLATX+1):SUB 8:AND $18:LD (PLATX+1),A
               CP $18:RET NZ

               LD HL,COGS+01:LD DE,COGS+00:LD BC,7
               LD A,(DE):LDIR :LD (DE),A
               LD HL,COGS+14:LD DE,COGS+15:LD BC,7
               LD A,(DE):LDDR :LD (DE),A
               LD HL,COGS+17:LD DE,COGS+16:LD BC,7
               LD A,(DE):LDIR :LD (DE),A:RET

HASBEEN       LD A,(HEROX+1)
HAD1          ADD A,0:CP $20:JR NC,OVER20:LD A,$20
OVER20        CP $C0:JR C,LESSC0:LD A,$C0
LESSC0        LD (HEROX+1),A:LD (GUNX+1),A:RET

PRTCOG        PUSH HL:PUSH DE:LD BC,$2020:CALL ISHEROINBOX:POP DE:POP HL
               LD B,4:PUSH HL
PRTCOGBLP     PUSH BC:PUSH DE:PUSH HL:LD A,D:OR A:CALL P,BAXITA
               POP HL:LD DE,2+32+4:ADD HL,DE
               POP DE:LD A,D:ADD A,8:LD D,A
               POP BC:DJNZ PRTCOGBLP:POP HL:RET

PRTPLATCOGS   LD A,D:ADD A,$20:LD D,A
PLATX         LD E,$18:LD B,8
PLATLOOP      LD A,(IX+00):OR A:JP Z,NEXTPLAT

               PUSH BC:PUSH DE:CALL PRTPLATCOG:POP DE
               LD A,D:OR A:JP M,SKPALLTHIS

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	PUSH DE	LD A,(HEROX+2):LD L,A:LD H,\$0F
	PUSH IX:DEC IX:LD BC,\$1020:CALL ISBULINBOX:POP IX	LD A,D:SUB 4:LD E,A:LD D,\$07
SKPCOLI	POP DE	CALL HITAJR C,NOITSNOT:POP DE
		PUSH DE:LD A,(HEROX+1):ADD A,8:LD L,A:LD H,\$0F
		LD D,\$1F:CALL HITAJR C,NOITSNOT:POP DE
		LD A,D:SUB \$10:LD (SHIM+1),A
		LD A,1:LD (STH+1),A
		XOR A:LD (HEROF+1),A:LD (HEROG+1),A
		POP BC:LD A,C:LD (HAD1+1),A
		LD A,(GUNDIR+1):CP \$FF:CALL Z,FEST
		LD A,(HEROP+1):AND 7:OR 16:LD (HEROP+1),A
		LD A,(GUNDIR+1):AND 7:LD (GUNDIR+1),A
		LD A,(FUDLR):AND \$0F:JR NZ,NZX
NZX		LD A,(HEROP+1):OR 24:LD (HEROP+1),A
		LD A,(HEROCRAWL+1):OR A:JR Z,NEXTPLAT
		LD A,(GUNDIR+1):AND 7:OR 56:LD (GUNDIR+1),A
		LD A,(HEROP+1):AND 7:OR 40:LD (HEROP+1),A:JR NEXTPLAT
NOITSNOT	POP DE	
SKPALLTHIS	POP BC	
NEXTPLAT	INC IX	
	LD A,E:ADD A,\$20:LD E,A:DEC B:JP NZ,PLATLOOP:RET	
PRTPLATCOG	LD A,D:OR A:RET M	
	LD HL,PLATFORMSPR:JP BAXITA	
COGS	DS 24,0	
PLAT1	DW 0	
PLAT2	DW 0	
PLAT3	DW 0	
COGSP1	DB 4,1*8	
	DBH 000000000000000000000000C01B00	
	DBH 001BC00080C31B020593C740E0E2C70B	
	DBH 46464646	
	DB 4,1*8	
	DBH 03FFFDE0C0FFFF190EF83F8000CFE306	
	DBH 00CC3770800B90016F924BF8F885216F	
	DBH 46565646	
	DB 4,1*8	
	DBH 6F2185F8F84B926F01900B800037CC00	
	DBH 02E3CF00803FF8060DFFFFC0E0F9FF1B	
	DBH 46565646	
	DB 4,1*8	
	DBH 07C7E6E040C3B30B051BC18000C01B00	
	DBH 001BC0000000000000000000000000	
	DBH 46464646	
COGSP2	DB 4,1*8	
	DBH 000000000000000000000000600000685800	
	DBH 00B8CE0000DE7C0001BC9E00E03CDE00	
	DBH 46464646	
	DB 4,1*8	
	DBH 185FF9C030FD3F3737F01EF0F8E7C76F	
	DBH 0F981BF8E08B90371B20058080852D0D	
	DBH 46565646	
	DB 4,1*8	
	DBH 0521B580C005201D33910BE0F81B980F	
	DBH 6FC7E7F8F01EF037373FFD30C0F81F14	
	DBH 46565646	
	DB 4,1*8	
	DBH 00DE3C0000DCBE01017CDE00005EB800	
	DBH 00086800000000000000000000000000	
	DBH 46464646	
PLATFORMSPR	DB 4,1*8	
	DBH 3FFFFFF0C0FFFF4F73FFFFFF0CFFFFF7C	
	DBH 3F00FF00FFFF7F0F037FFFFFFFFF7F00	
	DBH 42424242	

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;*****
; ** PRT TANK **
;*****

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L2KILLTANK  XOR A:LD (NOSROLL+1),A:LD (L2PRTTANK+1),A
              LD (ISBIGON),A:PUSH BC:PUSH IX
              LD DE,(L2TANKX+1):LD A,D:ADD A,$10:LD D,A
              PUSH DE:LD A,E:ADD A,$10:LD E,A:CALL INITEXPNOEND:POP DE
              PUSH DE:LD A,D:ADD A,$20:LD D,A:CALL INITEXPNOEND:POP DE
              LD A,E:ADD A,$20:LD E,A:CALL INITEXPNOEND
              POP IX:POP BC:RET

L2CHTD      LD A,(L2TANKD+1):NEG :LD (L2TANKD+1),A:JR L2GTNK

INITTANKZ   LD A,1:LD (L2PRTTANK+1),A:LD A,-4:LD (L2TANKD+1),A
              LD A,$20:LD (BIGHTS),A:LD A,13:LD (L2TNM+1),A
              CALL GETDATA:LD D,A:LD E,$D8:LD (L2TANKX+1),DE:RET

L2PRTTANK   LD A,0:OR A:RET Z
              LD (ISBIGON),A:LD (NOSROLL+1),A

L2TANKX     LD DE,$FFFF:LD A,E
L2TANKD     ADD A,0:CP $D8:JP NC,L2CHTD:CP $78:JP C,L2CHTD
              LD E,A:LD (L2TANKX+1),DE

L2GTNK      LD A,(POS):AND $13:JR NZ,L2TANKZ

              LD DE,(L2TANKX+1):LD A,E:ADD A,$18:LD E,A
              PUSH DE:LD A,D:ADD A,$18:LD D,A
              LD A,(HEROX+2):ADD A,$10:CP D:LD L,13:JR C,L2FHU
              SUB $10:CP D:LD L,12:JR C,L2FHU:LD L,11
L2FHU       LD A,L:LD (L2TNM+1),A:POP DE:LD A,D:ADD A,$08:LD D,A
              LD A,L:LD B,4:CALL INITBAL

L2TANKZ     LD DE,(L2TANKX+1)
              LD A,3*4:LD (PRTSPRBLP-1),A
              PUSH DE:LD A,E:ADD A,$10:LD E,A:PUSH DE

L2TNM       LD A,0:SUB 12:NEG :INC A:LD DE,192
              LD HL,L2TANKTURRET1:CALL MULT:POP DE:CALL NC,PRTSPR:POP DE

              PUSH DE:LD A,E:ADD A,$10:LD E,A:LD HL,L2TANKATRS1
              LD BC,$0403:CALL BAXATR:POP DE
              LD A,D:ADD A,$18:LD D,A
              PUSH DE:LD HL,L2TANKATRS2
              LD BC,$0904:CALL BAXATR:POP DE

              PUSH DE:LD A,E:ADD A,$18:LD E,A:LD HL,L2TANKMID2
              LD BC,$0308:CALL NC,BAXIT:POP DE

              PUSH DE:LD HL,L2TANKMID1
              LD BC,$0308:CALL MASKCXB:POP DE

              PUSH DE:LD A,E:ADD A,$30:LD E,A:LD HL,L2TANKMID1
              LD BC,$0308:CALL NC,MASKCXB:POP DE

              LD A,D:ADD A,$0F:LD D,A
              PUSH DE:CALL L2PRTWHEEL:POP DE
              LD A,E:ADD A,$18:LD E,A:JR C,L2FKJ
              PUSH DE:CALL L2PRTWHEEL:POP DE
              LD A,E:ADD A,$18:LD E,A:JR C,L2FKJ
L2PRTWHEEL  LD A,(POS):AND 2:LD HL,L2TANKWHEEL1:JR Z,L2WEEL
              LD HL,L2TANKWHEEL2
L2WEEL      PUSH DE:LD BC,$0304:CALL BAXIT:EX DE,HL:POP DE
              LD A,D:ADD A,8:LD D,A:LD BC,$0308:CALL MASKCXB
L2FKJ       LD A,(L2TANKX+1):ADD 16:LD L,A:LD H,31:LD (BIGX1),HL
              LD HL,(L2TANKX+2):LD H,$37:LD (BIGY1),HL:RET

L2TANKMID1  DBH FF00FF000001007EFC00FF00FF00E003
              DBH 00800060001CFF00FC0000E300800080
              DBH 001FF803F004007C006000F60063E009
              DBH E00B001F0086004E00FCC012C01600E3
              DBH 00BC006A001F8025802C00F5007C006A
              DBH 00AB0043007D00550074000000000040

L2TANKMID2  DBH C400460100001FFFFE0000001FFFFE56
              DBH 6B3D7FFFFE4620558064CCC660002766
              DBH CCFCFF53255AA854F553255AA8000000

L2TANKWHEEL1 DBH 000000FCFF3F7FFFFE0070360E8E80747A001E2C2A30

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	DBH	C000008103000114002A802080210076
	DBH	01840002007F00400041003E00820002
	DBH	006D0040004100560082000200810040
	DBH	8020002A0104010400008020C0100000
	DBH	030807100000E008F0060000F601F80
	DBH	0081F801FE00007E7F00FF008100FF00
L2TANKWHEEL2		
	DBH	000000FCFF3F7FFFFE0E0070360E8EB6747AB69EAC8032
	DBH	E002000007200328002AC01080200080
	DBH	010C0194003C80210040005A00020042
	DBH	00BD0042004000BD00020042005A0042
	DBH	00400024008200020001004180200054
	DBH	0104010400008020C018000031807E0
	DBH	0000E007F80000FF1F00FF000000FF00
L2TANKTURRET1		
	DBH	FF00C00083008300017C007C803FFF00
	DBH	FF0080210083008600120079802EFF00
	DBH	FF00004E00E4008A000A0006005CFF00
	DBH	FF0000580066002A00CA000D000C000
	DBH	803F0098003900E200E2000300CB005F
	DBH	005F009900C701B4011400DF000B0055
	DBH	004A0018006E0032005200BC000B0050
	DBH	0040001800580022000A00020008803F
	DBH	C000001800000052002200FE0058FF00
	DBH	FF00005800FF0104010C0083005AFF00
	DBH	FF000058009B0072000A00AB0042FF00
	DBH	FF00007C009B0076090000008000FF00
L2TANKTURRET2		
	DBH	FF00810083008300017C007C007EFF00
	DBH	FF00004300830086001200790059FF00
	DBH	FF00005C00E4008A000A0006004CFF00
	DBH	FF00004E0026002A00CA000D0010C000
	DBH	803F00D6003900E200E2004300E2006F
	DBH	004700F6006701B40194007700420045
	DBH	00460086001B00320052006F00020044
	DBH	0068000600160022000A000800C2803F
	DBH	C000000600000052002200FE0056FF00
	DBH	FF00005600FF0104010C00830056FF00
	DBH	FF000056009B0072000A00AB0060FF00
	DBH	FF00803E009B007609000000C000FF00
L2TANKTURRET3		
	DBH	FF00010083008300017C007C00FEFE00
	DBH	FE000083008300860012007900B9FE00
	DBH	FE00009E0024008A000A0008600A7FE00
	DBH	FE00009900C6002A00CA000D0006E000
	DBH	C01F00E200D900E200E2004300F28033
	DBH	802100F800C301F401D4005B00508021
	DBH	802100A000DD00B20092004700008021
	DBH	8032000000D30022000A004800F0C01F
	DBH	E000000000000052002200FE0082FE00
	DBH	FE00008200FF0104010C008300B2FE00
	DBH	FE00008E009B0072000A00AB00E0FE00
	DBH	FF00003E009B007609000000C000FF00
L2TANKATRS1		
	DBH	00444545
	DBH	44044545
	DBH	00040445
	DBH	45454400
	DBH	45450444
	DBH	45040400
L2TANKATRS2		
	DBH	000007444444070000
	DBH	000707040404070700
	DBH	050505050505050505
	DBH	004600004600004600
BADDYCRAWL21		
	DBH	FE000300FF00FF00FF00FF000100FC00
	DBH	F80100FCFF00FF00FF007F000002F002
	DBH	E00400053F00FF00FF003F000001E004
	DBH	800400BD3F00FF00FF003F00000D000A
	DBH	007C00013F00FF00FF003F00000100FE
	DBH	00DF00113F00FF00FF007F00004E009F
	DBH	002F00E04700FF00FF00030000F2007D
	DBH	00F300E701B8FF00FF00004400CF00F9
	DBH	007600060084FF00FF00017800000029
	DBH	001119800300FF00FF0087001F800010
	DBH	C00F3F00FF00FF00FF00FF007F00E000
	DBH	F000FF00FF00FF00FF00FF00FF00FF00

BADDYCRAWL22

DBH FE000000FF00FF00FF007F0000FEFC00
DBH F80100013F00FF00FF001F800002F002
DBH F00200001F80FF00FF001F80005EE002
DBH 800100061F80FF00FF001F800000001E
DBH 007C00001F80FF00FF001F80000800FF
DBH 00CF00C73F00FF00FF007F0000E000CF
DBH 009700060FF00FF00FF007F00004E001F
DBH 003E00813F00FF00FF003F00001900B8
DBH 007E00653F00FF00FF007F000012001E
DBH 000200027F00FF00FF00FF0000C40000
DBH F0000138FF00FF00FF00FF000300FF00
DBH FF00C700FF00FF00FF00FF00FF00FF00

BADDYCRAWL23

DBH FE000300FF00FF00FF00FF000100FC00
DBH F80100FCFF00FF00FF007F000002F002
DBH E00400053F00FF00FF003F000001E004
DBH 800400B03F00FF00FF003F00000D000A
DBH 007C00013F00FF00FF003F000008100FF
DBH 006700D10700FF00FF00030000CE00E7
DBH 00E300A00138FF00FF00004400F00071
DBH 001800E70004FF00FF00008400FF0084
DBH 0070007E0138FF00FF00030000380001
DBH 0C000100C700FF00FF00F00C7007E00
DBH FF00FF00FF00FF00FF00FF00FF00FF00
DBH FF00FF00FF00FF00FF00FF00FF00FF00

LEVEL2END

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L2CHRS

DBH FFEFCFCF8FCFEFF0000000000000000
DBH FEFEFCF8FAFCFEFF162D5128142A152A
DBH FEFEFEFEFEFEFE430100073FFFFF00
DBH E61FFFFFFFFF003030303030373737
DBH 0C0C0C0C0C0C0C0D00E9F5FFFFF00
DBH 00589464CA9428540168D5FFBEDBE582
DBH C0073FFFFD7F970B18A2418840880000
DBH 00280022010A0000006EDDFFFFFBF7BB
DBH 00C7BFFFFDFF7EB00A2418A55AA0000
DBH 002A45A251AA0000C09B0E244329542A
DBH 0C77DF773FFBA10C55A2912A55889522
DBH 08162F1D3F6F371FA25DFEBFFDFFF1B
DBH 22DCEFFFFFDB85007FFFFF7FFFFDF
DBH 916DFFFFFDDFFFA25DFEBFFDFFF7B
DBH B75DE8F4FAFDCE00C1F0F27CFCEAF4BE
DBH 7FFFFFFFFF7FFFD0245623412A542A
DBH 14AA96245428542AF0E3C9C5C5E3FFFF
DBH FFFFFFFFFFFFFFFF0000000000000000
DBH FFFFFFFFFF00F3E6C983060C08000
DBH 6F371B0D06030100FFFFFFFFF7FBFDF
DBH 00FFFFFFFFF00FFFFFFFFFFFFFFFF00
DBH FF7F3F9F0F8723880080C065B2181C00
DBH FEC6928A8AC6FEFE8BC4E0F0FFFFFFFF
DBH 148A542A140A0402FFC0D5CAD5CAC0FF
DBH 7FBF3F7FF83A112D110519041AA00FF
DBH 0E86CE66B61A1C00FE0252AA52AA02FE
DBH FCFCFAFEFCFAFCFC2852AC542855A911
DBH FEF6FAFAFCFEFE8A14A8522A56AA54
DBH 060606060606060606060606060606
DBH 558A11CAA45A090200AA55AA55AA0000
DBH 07EF7DAA43A60000FDF8F27CFCEAF4BE
DBH FDF8F27CFCEAF4B8542A542A542A542A
DBH 542A542A542A14AAFFE3C9C5C5E3FF00
DBH FEFEFEFEFEFEFEFFFFFFFFFFFFFFFF00
DBH FEC6928A8AC6FE00F3F3F3F3F3F3F3
DBH DFD0FD0FD0FD0FD000000152A000044
DBH 00000054A80000558E440E048E440E40
DBH AA550000AA550000000000054A800002F
DBH 033B002F033B00150A1F0818091D0F15
DBH A8FC88CC985CF8540001824182418241
DBH 007F00552A552A5500FF0055AA55AA00
DBH 5329542A140915294656464646564646
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DBH 00FFFF3F3F3F3F3F3F3F3F3F3F3F3F3F
DBH C96DED6DED6DED00FFFFFFFFFFFF55
DBH 00FEFE06664606FEC371F371F371F371
DBH FEFEFEFEFEFEFE40021088000030B0
DBH 0000000002A0446F8E0C8E0E0F1F0A1

DBH 0404290E1F3FEDBE002080008000898
DBH 100000520B0725077CF8C8E0F1E5DFFF
DBH 8F0E1FEFFFBFEDBE007F552A552A552A
DBH 00FF55AA55AA55AA552A8080808080
DBH 55AA000000000000002011AA452215AA
DBH 7F381C4046564646F81C0E40A646A646
DBH 0235303030373737810C8C0C0CCDCDCD
DBH A24D8C0C0CCDCDCDE006460606E6E6
DBH 034EBDEFFFD7FB7FFFBFEF7DFF7AFDB
DBH 7FFFFFFFFF7EFFFFFFFFF7FFFFFFFFBFF
DBH 0023550A552A1522FFDFEAF5BFEFBF7
DBH FDFBFEF7DFF7AFDBFFFFFFFF7DFFFFFFB
DBH FEFEF4F8E0F1F7EF801F032B032F1500
DBH 007F7F606060606060FFFFF0C0C0CED
DBH 00E0004000F0580000FC06E666E66600
DBH 00FFFF01010101FD00FFFF80808080BF
DBH 017C88AC88FCA80000FFFF606060606F
DBH 00FEFE06060606E61020002010253633
DBH 00FF00406F2F00008A150000C06F2F00
DBH 46E60606F6E606068646860606F6E606
DBH 00FF0000FFFF0000AA55000000FFFF00
DBH 00FFFF93FF9393FFFF9393FFFF9393FF
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DBH 7F7F60606060F7FEFEF0C0C0CEDEF
DBH 7F7F20002002F7FFD001010101DFD
DBH FFFF80808080BFFE6E606060606E6E6
DBH FF93FF93FF93FF93FE92FE92FE92FE92
DBH FFFFFFFFFFFFFFFFFF6DFCFA7DDFFF
DBH 28518B578347AD5600FE56AE56AE56AE
DBH 56AE010101010101000000004040414C
DBH 0000000000004086FE3F3F3F00005400
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DBH 0B150B170A0000005500152A10220122
DBH 540154AA04F278FA05220520102A1500
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DBH 14081408140814000040024102410241
DBH 0604F674F674F6740241024102410200
DBH F674F674F674F60040704C53C5F5F5F
DBH 8F220802C030C305F5F5F5F5F5F5F5F
DBH 3F3F3F3F3F3F3F3F1F8F53A88442C000
DBH 3F3F3F3F3F0F1300FF0055AA55AA00FF
DBH 0000060E1E3E7E7E001D2D1D2D1D2D1D
DBH 7E7E7E7E7E7E7E7E2D1D2D1D2D1D2D1D
DBH 0E060E060E060E06007F002A152A152A
DBH 00FF00AA55AA55AA152A152A15007F00
DBH 00FE02AA52AA52AA52AA52AA5202FE00
DBH 7E7E7E7E7E7E00000E060C0000000000
DBH 000000000E060E06000000000004060
DBH 8040E0D0F8D4AA10005F2F170B050200
DBH 0080C0E0F0F8FC0000FFFFFFFFFFFF00
DBH 04CDE3FFFFFFFFF00040C04CDC4CCC4CD
DBH 000000FF005500FFC5DC5DC5DC5DC5CD
DBH FFFFFFFFFFFFFFFFFF00000C0005500F0
DBH C5DC5CD050D0SCDF0F0F0F0F0F0F0F0
DBH 70F070F070F070F000000004050D050D
DBH 92265424100A040055AA55AA5500FF00
DBH 00000040205028545522512A15080502
DBH 805FE5F2F9FCE0000DDB298AED0E018
DBH 005500AA00FF0000005003A70300FF00
DBH 0000C893C80000FF000013C9130000FF
DBH 0005E0F2E000FF00003B0D9E3AF50B70
DBH 3F4F733C4F230802FFFFFFFFF3CFF33C

L2ATRS

DBH 47474707474747474747074545070745
DBH 45070705470507474707470747070706
DBH 064545454505454547474745470546
DBH 474647464707470747070507070706
DBH 064545454545070747070747474707
DBH 454507064606460646464646050545
DBH 45050545454747074707470646474747
DBH 45454545474545454506464606464646
DBH 46464647460606064606464606064646
DBH 46464646060647070747070646464606
DBH 46064606460606064606464747474747
DBH 474607470747474747050507474707
DBH 45474747474707470707470707070647
DBH 450507474707070707474747

L2BLOX

DBH 05069696090A34350F1011120B0C0D0E
DBH 131415161B1C191D1B1B1E1E1718191A

DBH C3C32222C3C32321C3C32224C3C32627
DBH C3282222A2D2E2F302931B1292DB1B1
DBH 3032313334353637153915393A393B3C
DBH 1E3D191D1E3E0D3C3F223F2220213F22
DBH 3F2220212242222C2242434420212221
DBH 9D9D010101019D9DADAEDAEDABABAC
DBH AFB022C0C3C2222C4C32221C3C42221
DBH C1C30121C5C6C7C8C9CABC703045204
DBH 1539D139D3D42501D5D6CD01D7D801CD
DBH D4D901011FC3CE214022CE4118D2191D
DBH 000102011FC32021282B222C70717273
DBH 746667686666A6B7576777870797A7B
DBH 7C7D7E7F807181828308070808840885
DBH 86548754888889898A8A8B8B8A8C8B8D
DBH 8E8F908F919291928E938E9308380838
DBH 94959495666968688B8B8B8B8D8B8D
DBH 8E8F8E8F8E9390939696969665846785
DBH 1E97191A349836111E970D3C6699689A
DBH 9B9C535422222222222434123222322
DBH 22452245014601462321232222212222
DBH 9E9FA001A1A2A3A40101A0010101A3A4
DBH 9EA5A0A6A7A8A9AAC3C322210101B4B6
DBH B2B3B4B5B7B8B9CF0101B4B50101B9CF
DBH B4B6BCB6B4B5B4B5B8B5B8B5B4B5B8B5
DBH 0101B8B5B4B8DB4014748494AB4BEB4B6
DBH BF01B4B54D4E4F4F0101494A50515051
DBH C22122210101494C01014F4F01015051
DBH 010101019ECCA0CC47CC49CC69666868
DBH 65666768D00150515354535466666868
DBH 555657585D5E5F60595A5B5C61626364
DBH 474B494C6E6F08386A6B53546C6D0708
DBH 00019696C3C32221C5C6C7C8

L2MAPX

DBH 302774747A74747474747474747474
DBH 74747474747474747C7E7A7474747474
DBH 74747474747474747C7E747474747474
DBH 74747474827474747C7E747474747474
DBH 747474747474747474747474747474
DBH 827474741851515119747474185E5E09
DBH 0A292A2B2C0B095E5E5E095E5E5E095E
DBH 5E5E
DBH 30277D7F7A7D78777B7B827D7F7D7F7D
DBH 7D7F7D7F827D787B7B7A7D7F7D7F7D
DBH 7D827D7F7F7D78777B7B4F7D7F7D7F7D
DBH 827D7D7F7A7D78777B77827D7F7D7F7D
DBH 83817D7F7D7D78777B7B4F7D7F7D7F7D
DBH 7A7D7D7F18515151197B827D16515153
DBH 54752526595553515151535151515351
DBH 5151
DBH 302783817A3334357B7B7A3E3F373839
DBH 333683817A3378357B457A3336373839
DBH 337A81813633347B7B7B4F3336373839
DBH 7A3383817A33347B7B7A3336373839
DBH 3A4383818233347B7B7B4F3336373839
DBH 7A3383812E5252521A7B7A3317575756
DBH 547525265D5556575757565757575657
DBH 5757
DBH 30273A3B3C3D3D3C3D3D3C3D3D3D3D3D
DBH 3D3D3D3D3C3D3D3C3D3D3C3D3D3D3D3D
DBH 3D3C040707062F457B7B4F3E3F404142
DBH 7A3D3D040707062F777B7A3E3F404142
DBH 8243040707062F7B7B04070706054142
DBH 7A3F3A3B3C3D3D3C3D3D3C3F185A5B5A
DBH 5B752526595A5B5A5B5A5B5A5B5A5B5A
DBH 5B5A
DBH 840001437A44787A457B7A4647484149
DBH 464783437A44787A7B7B7A4647484149
DBH 467A284C4C4C147B457B4F4647484149
DBH 7A4783284C4C4C14457B7A4647484149
DBH 7A43284C4C4C147B45284C4C4C144142
DBH 7A473A437A44787A7B7B7A47165C5D5C
DBH 5D7525265D5C5D5C5D5C5D5C5D5C5D5C
DBH 5D1F
DBH 4A4A11437A444B3C3D3D3C3D3D3D3D3D
DBH 46473A3B3C3D3D3C3D3D3C3D3D3D3D3D
DBH 467A43504450347B7B7B4F4604070542
DBH 7A473A435044504B3D3D3C3D3D3D3D3D
DBH 7A4383504450347B7B7B504450404142
DBH 7A3108090A292A2B2C0B090C1B585958
DBH 59752526595859585958595859585958

```

DBH 591E
DBH 4A4A11437A44787A7B7B7A46124C1442
DBH 464783437A44347A457B7A3D124C143D
DBH 3D3C437A447A347B7B454F46124C1442
DBH 7A473A437A447A347B7B7A46124C1442
DBH 7A433A7A447A34457B7B7A447A404142
DBH 7A1651535476252680555351515C5D5C
DBH 5D242223215C5D5C5D5C5D5C5D5C5D5C
DBH 5D1E
DBH 4A4A4D0303020302030203134E1503
DBH 0302030303020302030203134E1503
DBH 0302030303020302030203134E1503
DBH 0203020303020302030203134E1503
DBH 02030303030203020302030302030303
DBH 03175156547625266A55565157080808
DBH 08705151190808080808080808080808
DBH 0820

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L2MAPY

```

DBH 827474741851515119747474187A7D7D
DBH 7F18515151197B827D167A3383812E52
DBH 52521A7B7A33177A3F3A3B3C3D3D3C3D
DBH 3D3C3F187A473A437A44787A7B7B7A47
DBH 167A3108090A292A2B2C0B090C1B7A16
DBH 51535476252680555351510317515654
DBH 7625266A555651570818515354762526
DBH 805553515151575156547625266A5556
DBH 51575151515354762526805553515157
DBH 575756547625266A555657576E717271
DBH 6E768626806E71726E858585855E22
DBH 235E326A6D31515151515151515119
DBH 806D185252525252525252521A6A6D2E
DBH 6E7172716E6E7172716E806D6E85326A
DBH 6D3185858585855E5E855119806D1851
DBH 51515151515151521A6A6D2E52525252
DBH 525252527271806D6E7172716E6E7172
DBH 7185855E5E8585858585326A6D2D6E71
DBH 72716E6E7172716E806D6E85326A6D2D
DBH 85858585855E5E855F6061665F626368
DBH 5F6263685F6465616664656166646561
DBH 66646467616664656166646761666464
DBH 676166646561666467616664690D0E0F
DBH 10656166690D0E0F10686C63685F6761
DBH 666B6C63685F64656166646761666465
DBH 61666464656166690D0E0F1065616664
DBH 646561666B6C63685F67616664646561
DBH 666467616664676166641C1C1C1C1C
DBH 1C1C1C1C1C1C1C7474747474747474
DBH 747474741D1D1D1D1D1D1D1D1D1D1D
DBH 1D7474747474747474747474747474
DBH 747474747474747474747474747474
DBH 1C1C1C1C1C1C1C7474747474747474
DBH 747474741D1D1D1D1D1D1D1D1D1D1D
DBH 1D1D74747474747474747474747474
DBH 747474747474747474747474747474
DBH 2D5E5E5E5E5E5E5E73736F6F797373
DBH 7373737373736F2D5E326F6F6F6F6F
DBH 6F6F6F6F7973736F6F6F6F6F2D5E5E5E
DBH 5E326F6F6F6F6F6F6F79737373736F
DBH 6F6F6F6F6F6F6F6F6F6F6F2D5E5E5E
DBH 5E5E5E5E5E5E736F79737373737373
DBH 737373736F6F6F6F6F6F6F6F6F6F6F
DBH 6F5E5E090A292A2B2C0B095E5E5E5151
DBH 53547525265955535151515757565475
DBH 25265D55565757575A5B5A5B75252659
DBH 5A5B5A5B5A5C5D5C5D7525265D5C5D5C
DBH 5D5C585958597586265958595859585C
DBH 5D5C5D242223215C5D5C5D0808080808
DBH 705151190808080808080808080808

```

L2END

ENDF

```

;
;*****
; ** END OF FILE **
;*****
;
;*****
; ** LEVEL 3 STUFF ( DATA , SPRITES AND PROGRAMMING ) **
;*****
;

```

```

IFLB STARTLEV=3
ORG LEVELDATA

LEVEL3DATA
DB $20,$30+FLOROF ; HERO X,Y
DB $00 ; MAPX
DB $68 ; MAPY
DB 0 ; 0=SCROLL L/R - 1=SCROLL U/D
DB $86,$00 ; WEAPON ROOM X,Y INIT
DW $48D8 ; DOOR XY
DB $86,$68 ; RIGHTMAX,DOWNMAX
DB $54,$00 ; SETUD,SETLR
DW FLOOR3 ; FLOOR BLOCKS
DW WALL3 ; WALL BLOCKS
DB $FF,$FF ; LADDER BLOCKS - $FF,$FF - $FF,$FF
DB $FF ; CRAWL ON BLOCK
DB $96,$FF ; SLIDE UP
DB $FF,$FF ; SLIDE DOWN
DW LEV3BADX,LEV3BADX2 ; LEVEL BADDY INITS X,EXTRA X
DW LEV3BADY ; LEVEL BADDY INITS Y
DW L3CHRS ; CHRS
DW L3ATRS ; ATRS
DW L3BLOX ; BLOX
DW L3MAPX ; MAPX
DW L3MAPY ; MAPY
DB 80 ; MAPXMAXSIZE

CALL PRTLIFTS:CALL PRTLASER:CALL PRTLEV3COGS:RET
JP RESETLEV3BAD
JP SMDOLIFTS
WAPTABLE3 DB $03,2,$01,2,$07,3,$06,3,$09,3,$0A,2
JP KILLLASER ; KILL BIG
JP INITLASER ; INIT BIG 1
JP INITBIGCOG ; INIT BIG 2
JP INITTRECOCG ; INIT BIG 3
JP COLOURBEE3 ; INIT BIG 4

;*****
RESETLEV3BAD XOR A:LD (ISBIGON),A
LD (PRTBIGCOGS+1),A:LD (PRTLEV3COGS+1),A
LD (PRTLASER+1),A

LD HL,BADBEE3:LD (BEE1),HL

LD HL,L1+1:LD B,4:LD DE,6-1:LD A,$30
RESLIF LD (HL),A:INC HL:LD (HL),$70:ADD HL,DE:ADD A,$30
DJNZ RESLIF
RET

;*****
FLOOR3 DB 3+4+3+2+1+2+2
DBH 170102
DBH 0C120813
DBH 030405
DBH 1496
DBH 0C
DBH 090E
DBH 0607

WALL3 DB 2+2+2
DBH 1110
DBH 0A66
DBH 6768

;*****
LEV3BADX DB $02,$06 ; BEE
DB $06,$00,$44,JUMP+KEY; BADDY
DB $10,$07 ; BEE
DB $18,$00,$64,KEY ; BADDY
DB $1C,$00,$64,KEY ; BADDY
DB $26,$FF ; LASER GUN
DB $30,$01,$24,KEY ; BADDY
DB $32,$01,$64,KEY ; BADDY
DB $38,$01,$24,KEY ; BADDY
DB $3A,$01,$64,KEY ; BADDY
DB $40,$01,$24,KEY ; BADDY
DB $42,$01,$64,KEY ; BADDY

```

```

DB $48,$01,$24,KEY ; BADDY
DB $4A,$01,$64,KEY ; BADDY
DB $50,$01,$24,KEY ; BADDY
DB $52,$01,$64,KEY ; BADDY
DB $FF,$FF ; END OF DATA
LEV3BADDY DB $60,$06 ; BEE
DB $5C,$07 ; BEE
DB $58,$06 ; BEE
DB $54,$06 ; BEE
DB $50,$06 ; BEE
DB $4C,$07 ; BEE
DB $48,$07 ; BEE
DB $44,$06 ; BEE
DB $40,$07 ; BEE
DB $3E,$07 ; BEE
DB $3C,$06 ; BEE
DB $3A,$06 ; BEE
DB $38,$07 ; BEE
DB $36,$07 ; BEE
DB $34,$06 ; BEE
DB $32,$06 ; BEE
DB $30,$07 ; BEE
DB $2E,$07 ; BEE
DB $2C,$06 ; BEE
DB $2A,$06 ; BEE
DB $28,$07 ; BEE
DB $26,$07 ; BEE
DB $24,$06 ; BEE
DB $1C,$FB,$06 ; SCROLL
DB $16,$FD ; LITTLE COGS
DB $00,$FE ; BIG COGS
DB $FF,$FF ; END OF DATA
LEV3BADX2 DB $70,$01,$64,KEY ; BADDY
DB $74,$01,$64,KEY ; BADDY
DB $78,$01,$64,KEY ; BADDY
DB $7C,$01,$64,KEY ; BADDY
DB $80,$01,$64,KEY ; BADDY
DB $FF,$FF ; END OF DATA

;*****
; ** PRT LASER **
;*****

INITLASER LD A,1:LD (PRTLASER+1),A:LD DE,$20E0:LD (LASERX+1),DE
LD A,$60:LD (BIGHITS),A:RET

KILLLASER XOR A:LD (NOScroll+1),A:LD (PRTLASER+1),A
LD (ISBIGON),A:PUSH BC:PUSH IX:LD DE,(LASERX+1)
PUSH DE:LD A,D:ADD A,$20:LD D,A:CALL INITEXPNO:POP DE
PUSH DE:LD A,D:ADD A,$40:LD D,A:CALL INITEXPNO:POP DE
CALL INITEXPNO:POP IX:POP BC:RET

PRTLASER LD A,1:OR A:RET Z:LD (ISBIGON),A

LASERX LD DE,$2000:LD A,E:CP $C0:JR NC,FJOE
LD A,1:LD (NOScroll+1),A
FJOE PUSH DE:LD HL,LASERHOLD:LD BC,$0410:CALL BAXIT:POP DE
PUSH DE:LD A,D:ADD A,$20:LD D,A
LD HL,LASERHOLD+$60:LD BC,$0404:CALL BAXIT
POP DE:PUSH DE:LD A,D:ADD A,$28:LD D,A
LD HL,LASERHOLD+$60:LD BC,$0404:CALL BAXIT
POP DE:PUSH DE:LD A,D:ADD A,$30:LD D,A
LD HL,LASERHOLD+$60:LD BC,$0414:CALL BAXIT
POP DE:PUSH DE:LD HL,LASERATTR:LD BC,$0458:CALL ATRIT
POP DE:LD A,E:SUB 8:LD E,A

LASERANI LD A,$2C
LASERD ADD A,2:LD (LASERANI+1),A:LD D,A
CP $2C:JR Z,SWAPLAS:CP $5E:JR NZ,NOSWAPLAS
SWAPLAS LD A,(LASERD+1):NEG :LD (LASERD+1),A
NOSWAPLAS LD HL,LASER:PUSH DE:LD BC,$0208:CALL MASKCXB:POP DE

LD HL,(LASERX+1):LD H,$20:LD (BIGX1),HL
LD HL,(LASERX+2):LD H,$60:LD (BIGY1),HL

LASERFIRE LD A,0:INC A:LD (LASERFIRE+1),A:CP 20:RET C
XOR A:LD (LASERFIRE+1),A
LD A,(LASERANI+1):ADD A,4:LD D,A
LD A,E:SUB $10:LD E,A
LD A,12:LD B,4:JP INITLAS

```

LASER DBH F80007B00FA0F006E00807B007B0C014
DBH 802E030801F4005D00BB008200020097
DBH 00AE0002011C00A40048031007108028
DBH C01407100710E00AF00407100FE0F803

LASERHOLD DBH FFFFFFFF7F1818C099C1C1BDFEAEAAAC
DBH B674756FB7BA02B8BDBB5D5B010000BE
DBH BEFF8E4DAD8E819EAE9E8D5D990CAF96
DBH 8AB00C3AF20FB5A4B21280057500C5A1
DBH B04020B5750854A4B24BE8B5752854A1
DBH B0482CF5E1E74FA0B040100E40A842A4
DBH B24400369B544EA1B057004D25FE5AA0
DBH B05D024D9B564DA0B0450236ACFE41A4
DBH B24000182CF5FA1B05001160BA152A0
DBH B0555005ADA252A0B055500102A252A4
DBH B255500A02A252A1B05000A02FA5FA0
DBH B04000A02FA5FA0B04000A023256A4
DBH B25B180A02025CB5BA5D980A029A5D5D
DBH 2E4D980A029A85572B79980225008051
DBH B04000712DFFDF988DB5550D0D0170A7
DBH 92FFFFFFDFFFF492000001FFFFFFF1F

LASERATTR DBH 46454545
DBH 464D4D45
DBH 5643434C
DBH 560E434F
DBH 560E434F
DBH 560E434F
DBH 560E434F
DBH 56060606
DBH 56060E45
DBH 46454D45
DBH 454D4D45

; ** PRT COGS **

INITTREECOG LD HL,COGS1XB:LD DE,COGS1X:LD BC,4*5:LDIR
LD A,1:LD (NOSROLL+1),A:LD (PRTLEV3COGS+1),A
LD A,3:LD (COGNUMB+1),A:CALL INCCOGNUM
LD A,31:LD (LEV3DEL+1),A
LD A,3:JP PLAYMUSIC

PRTLEV3COGS LD A,1:PUSH AF:CALL PRTBIGCOGS:POP AF:OR A:RET Z
LEV3DEL LD A,31:DEC A:JP M,NAL:LD (LEV3DEL+1),A
NAL

COGON LD A,0:XOR \$92:LD (COGON+1),A
LD HL,COGSPRTREE:CALL ADDHLA
LD (NAFTER+1),HL

COGNUMB LD C,0:LD B,4:LD IX,COGS1X
PRTL3COGBLP PUSH BC:LD A,4:SUB B:LD (HARRY+1),A
LD A,(IX+04):OR A:JR Z,GONEXTCOG

PUSH BC
NAFTER LD HL,0:LD E,(IX+00):LD D,(IX+01):CALL BAXITA
LD E,(IX+00):LD D,(IX+01):INC IX:INC IX
LD BC,\$2020:CALL ISBULORHERO:DEC IX:DEC IX
POP BC
LD A,(IX+04):OR A:JR NZ,GANXTCOG
LD E,(IX+00):LD D,(IX+01)
PUSH IX:PUSH BC:CALL INITEXPNOEND:POP BC:POP IX

LD A,(COGNUMB+1)
HARRY CP 0:JR Z,NACUM

GANXTCOG LD A,(LEV3DEL+1):OR A:JR NZ,NACUM
LD A,4:SUB B:CP C:JR NZ,NDOSWAP
LD A,(IX+00):ADD A,(IX+02):LD (IX+00),A
LD A,(IX+01):ADD A,(IX+03):LD (IX+01),A
JR Z,DOSWAP:CP \$40:JR NZ,NDOSWAP

DOSWAP LD A,(IX+02):NEG :LD (IX+02),A
LD A,(IX+03):NEG :LD (IX+03),A:JP M,NDOSWAP
NACUM CALL INCCOGNUM
NDOSWAP

GONEXTCOG POP BC:LD DE,5:ADD IX,DE:DEC B:JP NZ,PRTL3COGBLP:RET

```

INCCOGNUM      LD  B,4
GONXTCOG       LD  A,(COGNUMB+1):INC A:AND 3:LD  (COGNUMB+1),A
                PUSH HL:PUSH DE:LD  HL,COGS1X+4:LD  DE,5:CALL MULT
                LD  A,(HL):OR  A:JR  NZ,NIOSWAP
                POP  DE:POP  HL:DJNZ GONXTCOG
                LD  A,$16:LD  (CONTSCROLL+1),A:RET

NIOSWAP        DEC  HL:DEC  HL:DEC  HL:DEC  HL
                LD  E,(HL):INC  HL:INC  HL
                LD  A,(HEROX+1):SUB  E:JR  NC,COR

COL            NEG  :SRL  A:SRL  A:SRL  A:NEG  :LD  (HL),A:JR  ZAKS
COR            SRL  A:SRL  A:SRL  A:LD  (HL),A
ZAKS           POP  DE:POP  HL:RET

COGS1X         DS  4*5,0
COGS1XB        DW  $0020
                DB  0,8                ; XY DIR
                DB  16                ; ENERGY
                DW  $0058
                DB  0,8                ; XY DIR
                DB  16                ; ENERGY
                DW  $0090
                DB  0,8                ; XY DIR
                DB  16                ; ENERGY
                DW  $00C8
                DB  0,8                ; XY DIR
                DB  16                ; ENERGY

COGSPRTREE     DB  4,4*8
                DBH  030000001CE003466404103913D089B1
                DBH  C24BA1C520A24B45485B9DD1E8C3270B
                DBH  0BDFFFC8B0FFFF0B05F83F4040CFE302
                DBH  32CC3778840B904D53924BF2FA85215F
                DBH  5F2185FACA4B924F21900BB24C37CC1E
                DBH  02E3CF40A03FF8021DFFFFD0D0FBFF23
                DBH  2FC7E5D0A0DABB176845D24683D185C7
                DBH  100B90180D2008346607C02600000003
                DBH  44474744
                DBH  47575747
                DBH  47575747
                DBH  44474744

                DB  4,4*8
                DBH  0C000030781818062664266408599A08
                DBH  017A5E8682BE740D337BB2B0C878BC14
                DBH  16DFFB28F4FC7F2E2DF83FF4DACFE35F
                DBH  5FCC37DAA48B90271B900BD8A0852D05
                DBH  0521B5A0D80B901D25910BE4FA37CC5B
                DBH  5FE3CFFAB43FF82F2F3FFC74A8F81F14
                DBH  0A5F7C54203DAEA4617E0E849A2E7D01
                DBH  2C9A590C6246629A231C386B300000006
                DBH  44474744
                DBH  47575747
                DBH  47575747
                DBH  44474744

;*****
; ** PRT BIG COGS **
;*****

EYE            LD  A,0:OR  A:JR  NZ,KILLEYE
EYEENG         LD  IX,EYEENG-1:LD  DE,$0090:LD  BC,$0F0F:CALL ISBULINBOX
                LD  A,$20:OR  A:JR  Z,KILEYE
                LD  A,(POS):AND 15:RET  NZ
                LD  A,(HEROX+1):LD  DE,$0A90:CP  $60:JR  C,FILT
                LD  DE,$0888:CP  $A0:JR  C,FILT:LD  DE,$0680
FILT           LD  A,D:LD  D,0:LD  B,4:JP  INITBAL

KILEYE         LD  A,1:LD  (EYE+1),A:RET

KILLEYE        INC  A:LD  (EYE+1),A:CP  26+2:JR  NC,DEADEYE
                SUB  2:LD  E,A:AND 1:RET  NZ
                SRL  E:RES  0,E:LD  D,0:CALL ZAX
                LD  A,24:SUB  E:LD  E,A:CALL ZAX

ZAX            PUSH DE:CALL UPDATAX:POP  DE:PUSH DE
                LD  A,E:ADD  A,A:ADD  A,A:ADD  A,A:ADD  A,$10:LD  E,A
                PUSH DE:CALL INITEXPNOEND:POP  DE:LD  A,D:ADD  A,$20:LD  D,A
                LD  A,E:ADD  A,$08:LD  E,A

```

```

PUSH DE:CALL INITEXPORND:POP DE:LD A,D:ADD A,$20:LD D,A
LD A,E:ADD A,$08:LD E,A
PUSH DE:CALL INITEXPORND:POP DE:LD A,D:ADD A,$20:LD D,A
LD A,E:SUB $08:LD E,A
CALL INITEXPORND:POP DE:RET

DEADEYE XOR A:LD (PRTBIGCOGS+1),A:LD (NOSROLL+1),A:RET

INITBIGCOG LD HL,COGINIT1:LD DE,COG1X:LD BC,7*2:LDIR
XOR A:LD (EYE+1),A
LD A,$20:LD (EYEENG+1),A
LD A,1:LD (PRTBIGCOGS+1),A:LD (NOSROLL+1),A:RET

PRTBIGCOGS LD A,1:OR A:RET Z
DEC A:JP NZ,EYE

COGNM LD A,0:XOR 1:LD (COGNM+1),A
LD HL,COGATTR1:JR Z,HEAS:LD HL,COGATTR2

HEAS LD (COGATTR+1),HL
LD HL,BIGCOG:LD DE,$90:CALL MULT

PUSH HL:LD IX,COG1X:CALL PRTBIGCOG1
POP HL:LD IX,COG2X

PRTBIGCOG1 LD A,(IX+02):OR A:RET Z
LD E,(IX+00):LD D,(IX+01):LD A,D:AND $F8:LD D,A
PUSH HL:PUSH DE:LD BC,$030C:CALL MASKCXBIR:POP DE:POP HL
LD A,E:ADD A,$18:LD E,A
PUSH HL:PUSH DE:LD BC,$030C:CALL MASKCXB:POP DE:POP HL
LD A,D:ADD A,$2F:LD D,A
PUSH HL:PUSH DE:LD BC,$030C:CALL MASKCXBINV:POP DE:POP HL
LD A,E:SUB $18:LD E,A
PUSH HL:PUSH DE:LD BC,$030C:CALL MASKCXBMINV:POP DE:POP HL
LD A,D:SUB $2F:LD D,A

PUSH DE
LD A,E:ADD A,$08:LD E,A:LD A,D:ADD A,$08:LD D,A
LD HL,0:LD BC,$0404:CALL BAXATR:POP DE

PUSH DE:LD A,E:ADD A,8:LD E,A:LD A,D:ADD A,8:LD D,A
LD BC,$2020:CALL ISBULORHERO:POP DE

LD A,(IX+02):OR A:JR NZ,NOKILIT
PUSH IX
LD A,E:SUB $08:LD E,A:PUSH DE:CALL INITEXPORND:POP DE
LD A,E:ADD $20:LD E,A:PUSH DE:CALL INITEXPORND:POP DE
LD A,D:ADD $20:LD D,A:PUSH DE:CALL INITEXPORND:POP DE
LD A,E:SUB $20:LD E,A:PUSH DE:CALL INITEXPORND:POP DE
POP IX

LD A,(COG1X+2):OR A:JR NZ,NOKILIT
LD A,(COG2X+2):OR A:JR NZ,NOKILIT

LD A,2:LD (PRTBIGCOGS+1),A

NOKILIT LD A,(IX+00):ADD A,(IX+03):LD (IX+00),A
LD A,(IX+01):ADD A,(IX+04):LD (IX+01),A
DEC (IX+05):RET NZ

CDEC LD A,(IX+06):CP 8:JR C,CINC
SUB 2:AND 6:OR 8:LD (IX+06),A:JR CDEG
CINC ADD A,2:AND 6:LD (IX+06),A
CDEG LD DE,COGDIRS:ADD A,E:LD E,A:ADC A,D:SUB E:LD D,A
LD A,(DE):LD (IX+03),A:INC DE:LD C,A
LD A,(DE):LD (IX+04),A:LD (IX+05),15
LD A,C:OR A:RET Z:LD (IX+05),28:RET

COGATTR1 DBH 47474747
DBH 47424247
DBH 47424247
DBH 47474747

COGATTR2 DBH 00474700
DBH 47424247
DBH 47424247
DBH 00474700

COG1X DS 7,0
COG2X DS 7,0
COGINIT1 DW $0420
DB $20

```


DW \$0400,\$000F
 DW \$0480
 DB \$20
 DW \$0000,\$102E

BIGCOG

DBH 7F00FF00FF00FF00FF003F001F80FF00
 DBH FF00FF00FF000F400F40FE007F003F00
 DBH FC000F400720F0011F800F40E0020720
 DBH 0120C00C0F401F8000100010001E0020
 DBH 1F803F0000C10003000000027F007F00
 DBH 000200000000004FF00FF0000040000
 DBH 00C00004FF007F00000200200C00002
 DBH 7F001F00000200B00008000107800360
 DBH 0000004A00E500000118000400000CD

BIGCOG2

DBH FE003F00FF00FF001F80FC00F8010F40
 DBH FF00FF000F40F801F0020F40FF00F00
 DBH 0F40F00200040F40FF00FF000F400004
 DBH 00E80F40FF00FF000F40001000000F40
 DBH FF00FF00072000000000031087000300
 DBH 00100000000000801780084000F0000
 DBH 00000000000401180000003000C80000
 DBH 0360078000010034003A00021F007F00
 DBH 0002009A008400013F003F00000100E4

COGDIRS

DW \$0400,\$0004,\$FC00,\$00FC
 DW \$0004,\$FC00,\$00FC,\$0400
 DW \$0000

 ;** PRT LIFTS**
 ;*****

SMODLIFTS LD A,(PRTLASER+1):OR A:JR Z,NOLAS
 LD A,(LASERX+1):ADD A,L:LD (LASERX+1),A
 NOLAS
 LD A,(PRTLIFTS+1):OR A:RET Z
 LD IX,L1+1:LD DE,6:LD B,4
 SMODALLXBLP4 LD A,(IX+00):CP \$E8:JR NC,NFZ:ADD A,L:LD (IX+00),A
 LD A,(IX+01):ADD A,H:CP \$71:JR NC,NFZ:LD (IX+01),A
 NFZ ADD IX,DE:DJNZ SMODALLXBLP4:RET
 PRTLIFTS LD A,0
 XOR A:LD (PRTLIFTS+1),A
 LD A,(MAPX):CP \$54:RET C:LD (PRTLIFTS+1),A
 CALL DOLIF
 L1 LD DE,\$7030:CALL PRTLIFT; DONT CHANGE
 L2 LD DE,\$7060:CALL PRTLIFT; DONT CHANGE
 L3 LD DE,\$7090:CALL PRTLIFT; DONT CHANGE
 L4 LD DE,\$70C0:JP PRTLIFT; DONT CHANGE
 DOLIF LD A,(MAPY):CP \$1A:RET C
 LD A,(POS):AND 1:RET NZ
 LN LD A,0
 LD HL,L1+2:CALL ADDHLA
 LD A,(HL):SUB 8:LD (HL),A
 LD A,(POS):AND 7:RET NZ
 LD A,(LN+1):ADD A,6:LD (LN+1),A:CP 24:RET C
 XOR A:LD (LN+1),A:RET
 PRTLIFT LD A,E:CP \$E8:RET NC
 LD A,D:AND \$F8:LD D,A
 LD A,D:CP \$78:RET NC:XOR 127:AND \$78:LD B,A
 PUSH BC:PUSH DE:LD HL,BASE2:LD A,E:SUB \$10:LD E,A
 LD BC,\$0108:CALL MASKCXB:POP DE
 PUSH DE:LD HL,BASE3:LD A,E:ADD A,\$18:LD E,A
 LD BC,\$0108:CALL MASKCXB:POP DE
 PUSH DE:LD A,E:SUB \$08:LD E,A
 LD HL,BASE:CALL BAXITA:POP DE:POP BC
 PUSH DE:LD A,E:SUB \$10:LD E,A
 PUSH DE:LD A,(HEROX+1):ADD A,8:LD L,A:LD H,\$0F
 LD D,\$2F:CALL HITA:POP DE:JR C,NOTONL
 PUSH DE:LD A,(HEROX+2):ADD A,0:LD L,A:LD H,\$0F
 LD E,D:LD D,\$0F:CALL HITA:POP DE:JR C,NOTONL
 LD A,D:SUB \$0C:LD (SHIM+1),A

```

XOR A:LD (HEROF+1),A:LD (HEROG+1),A
INC A:LD (STH+1),A

LD A,(GUNDIR+1):CP $FF:CALL Z,FEST

LD A,(HEROP+1):AND 7:OR 16:LD (HEROP+1),A
LD A,(GUNDIR+1):AND 7:LD (GUNDIR+1),A
LD A,(FUDLR):AND $0F:JR NZ,NOTONZ
LD A,(HEROP+1):OR 24:LD (HEROP+1),A
LD A,(HEROCRAWL+1):OR A:JR Z,NOTONL
LD A,(GUNDIR+1):AND 7:OR 56:LD (GUNDIR+1),A
LD A,(HEROP+1):AND 7:OR 40:LD (HEROP+1),A:JR NOTONL

NOTONZ

NOTONL POP DE

LD A,B:SUB 8:RET C:RET Z:LD B,A
LD A,D:ADD A,$10:LD D,A
PUSH DE:PUSH BC:CALL BIXAD:LD IX,LIFTBASE
LD A,16:LD (CCNT+1),A
XOR A:LD (IXOF1+2),A:INC A:LD (IXOF2+2),A:LD DE,32-1
LD A,(IX+00):LD (HL),A:INC HL
LD A,(IX+01):LD (HL),A:ADD HL,DE
LD A,0:DEC A:LD (CCNT+1),A:JR NZ,NOFS:LD IX,LIFTBASE2
LD A,(IXOF1+2):ADD A,2:AND 30:LD (IXOF1+2),A
INC A:LD (IXOF2+2),A:DJNZ IXOF1:POP BC:POP DE:LD A,B
RRA :RRA :RRA :AND 31:LD B,A:CALL BATAD:LD DE,32-1
BISD LD (HL),&006:INC HL:LD (HL),&106:ADD HL,DE:DJNZ BISD
RET

BASE DB 4,2*8
DBH 00000000DDFFFFFFFEE0000000
DBH 99999999CCCCCCC0000000FFFFFFEF
DBH 7FFFFFFF00000007FFFFFFF88888848
DBH 48888888CCCCC6EEEEEEE00000000
DBH 06060606
DBH 07070707

BASE2 DBH 0000007B007D003E0051006800640063
DBH 00658026C017E00FF007F803FC01FE00

BASE3 DBH FF007F003F801F400F20079003080174
DBH 00BA000000FE008A008A00CA00FE0000

LIFTBASE DBH 00000000000000000000006A07E65FC
DBH 4BF845E14B84440D403C40DD417C62DD

LIFTBASE2 DBH A17CA2DCA17AA2D2A146A21EA07E65FC
DBH 4BF845E14B80440D403C40DD617CA2DD

BADBEE3 DBH C0007000F00FF00FF0003000008000
DBH 003F008F01F0FF00FF00000C00300020
DBH 0026004100F27F003F00000D00860020
DBH 0024008800021F801F80002800080025
DBH 00250010001C0FC00720000800500025
DBH 0022000000003500128000200300024
DBH 0024001A000C0108010800F200010024
DBH 0024000000B0024000A001400300028
DBH 0028001800000620062000C00000028
DBH 00240018002C0044003A009800050028
DBH 00280003007A003A0012007C000B0028
DBH 00240001003A004600BC009C00000023
DBH 002000C00000014003A0000100040024
DBH 00250001003007A00720001000000021
DBH 00240080000007200F4000000600038
DBH 8300001000021F800F400000022C700
DBH FF000021000007A003500020040FE00
DBH FC0000C00010031007200000080FC00
DBH FE000078000F0FC01F0000F00007FF00
DBH FF0080000003F00FF00F00F800FF00

BADBEEATR31 DBH 43054500
DBH 43054500
DBH 43054607
DBH 03054500
DBH 00054500

BADBEEATR32 DBH 00450543
DBH 00450543
DBH 07460543
DBH 00450503
DBH 00450500

COLOURBEE3 LD A,(IX+PHASE):LD HL,BADBEEATR31:INC A:AND 4:JR Z,PTZ

```

```

PTZ      LD      HL,BADBEATR32
          LD      E,(IX+XPOS):LD      A,(IX+YPOS):SUB $10:AND $F8:LD      D,A
          OR      A:RET      M:LD      BC,$0405:CP      $60:JP      C,BAXATR
          LD      A,$80:SUB      D:RRA      :RRA      :RRA      :AND      7:LD      C,A
          JP      BAXATR

```

LEVEL3END

L3CHRS

```

DBH      FFFFFFFFECFDFE0000000000000000
DBH      FEFEFCF8FAFCFEFF162D5128142A152A
DBH      FEFEFEFEFEFEFE430100073FFFFF00
DBH      E61FFFFFFFFF00C1CE9836EBF7BF5D
DBH      3DD7FFFFFE7FFF900589464CA942854
DBH      18275DBA87BB9D8F0CF35FEBF6ADDB5B
DBH      438080A041404040ED360122152C5138
DBH      0FE0557AD7A840A0803D57EA77EB77AE
DBH      D5ABFE01168DDEDDF58E57A89F5DBE7F
DBH      1C4177B85DBB77E00CF259ACD4AC5874
DBH      CBDD3FFDEF77EBF789DCBAFDFE8BF4BE
DBH      03031E2C1A614CD5070A1D4F3334DAA9
DBH      42F478C0400A8C040201808001030607
DBH      0D5AA76B9633EEDD400400512B8F17AF
DBH      046CD6FFBEDBE5820A034D9FED7F970B
DBH      00486EE775577A30048C46F2E97A603
DBH      0411B8DDEFFFFEF0221D86DFE7FFFFF
DBH      F144880448005500C62A440801005500
DBH      0116A3B399190B02CB9EB5B5DB67DBA
DBH      55BF6AD5B0000000EA42C18800080000
DBH      808040404080400078B4FDFB7E2D963C
DBH      1B3C563FDEACD6BF8BD5EBFFF7FFFFDF
DBH      FDF8F47EFCFAF1BDDFF7DEEDFFD76AB54
DBH      95CCE68A058A05025428542A94881428
DBH      0C1800306148100000001020000C1008
DBH      00228090311080E00010000201000000
DBH      040E240009068400008002400020C044
DBH      00060C010029100010389000C0400998
DBH      811002502080C0A00020000400100002
DBH      42008001001000080020000200040000
DBH      00000200021000000008041C0A064400
DBH      000048600248C00020040E04011C0901
DBH      C280144204A8801090102A198851040D
DBH      002000808420000801D2220104000000
DBH      2240AA0409000000000100440800844C
DBH      400A211A6910000C8A2542000000000
DBH      00903810049040002100428100880100
DBH      08220002100004001306000220010800
DBH      00000040C0A040C020148805281D5FBF
DBH      2040AAE4F9FFFFFFFFFECF9F2E5E0C3
DBH      FFFF7F9FEFF4E8710000850A0D05850C
DBH      0000000441AFAFF160609050A060E1C
DBH      FFFFFFFFFFFFFFFFFF89DCBAFD7EAB74BE
DBH      7D38747E3C6A713D4800000441A4FAFF
DBH      14A10A5F2D0FFFFFFFFF9F2F77AB51
DBH      0D8E150E048A05098F479B2D1E4BBFFF
DBH      0408020402080604FAF4E24040000000
DBH      FFFF5EB414280000FC58A84020000000
DBH      AF55A20000000000E2CF7EFFDFBF5B1
DBH      FFFFFFFFFFFFFFFFFF0002040305020000
DBH      0000000008040001C2B9F2B07090200
DBH      80008000C06C96027ABDDABFDE6ABC4B
DBH      FF6DFF4FA75DFF6F376B9762B5409668
DBH      B77BD7EB55CDDFBF13AB319812BB1204
DBH      1426B3B399190B022166CD77FFFB71A
DBH      8CC6AFFFFDFFB7301AB319812BB1204
DBH      7DBD3D1E7EBC7000000A170B80801700
DBH      00FEFEFC0101FE04811C22222221C81
DBH      0B270B270B001580F6F6F6F6F606FC02
DBH      000E160E160E1600801F372830333736
DBH      00FFFF0000FF882200FFC30000C3E766
DBH      01FCF60A06E676363636363636363636
DBH      3918013E5F5E3901DD800B970F970F96
DBH      DD00FFE0CA952893DD00FF0329540AE4
DBH      DD01F9DFFDFD7D3DD002A547E023818
DBH      38183818381838180D92099209920C96
DBH      44A85090588245310093415040812E5
DBH      9D4DAD4DAD4D1D3D0F970B970A800080
DBH      2895CAF0FF000000A542907FF000000

```

DBH 7DFDFDF90101031020102010201020
DBH 6424642464266226022A522A522A522A
DBH C08080C0404040C0080100030B070B05
DBH BCFAEDFAF4BAF4B80B170B070B050307
DBH 7DE8B458F0E8F0685E3B5E3D5A3D7E77
DBH 1F2D1A4D1E2D164DEE86EAD6E8D5E994
DBH 6AA64634562A7CF8C0406040C080C080
DBH 80D060B060A0605095CCE68A058A0502
DBH 020100010C100814B478BC5ABCFABCF8
DBH 3E5D3A1C3A1D1A2DAED2ECD46ED4CDF4
DBH 80C060A0204080C0E9D0021002042000
DBH BF641005AE0520020004200800020010
DBH FF7FFF23052B810A5AB0140010480001
DBH FFFFFFFF0E842A00800608009300200
DBH E2CB965BFFFFFADD9E375E367DFEFEF5
DBH 76EA52299080C0F0F8D0844080000001
DBH B250200000010103071F3F7F7FFFFF
DBH 03070F1F7FFFFF9EFABCD9A3CD17BF
DBH FFFFFFFFEFCFAF1C6070F0F1F3F7F7FFF
DBH 26683455CBA6D6C2B066332081C2A8D8
DBH E1E0C08287471733CBC39D3E3E3E188C
DBH 810004202337DBFFCEC6801008C9CD9F
DBH CEC6801008010000C6B67A624024EE8E
DBH 00842E6E67C31331C60C99DC5C183084
DBH 7879732797C7C7E3389CCECE8E1D1993
DBH FCE1D8EDF6C4331B46889DD98A6733B1
DBH 3FD9FA79A0D2999FFFFF3ED3692A64D
DBH E8FCF1EAFFF3EDD2408281C3836131B0
DBH 9924666667421131883693C44C181084
DBH AC9123472245014123442193AED0E0F0
DBH 010004202337DB7FCEC6801008010000
DBH C0FEFFFFFFFFFFFF9918240000000000
DBH 0000F0FFFFFFFFFFFF0000000C0F0FCFE
DBH 0822000210000400FFFFFFFFCF9F4C88000
DBH FFC02F80000000000570000000000000
DBH FF1F43150200000036363636008100
DBH 64246424642464243637333028371F80
DBH 36F7C10000C1633E36F5E6060AF6FC01
DBH 0000808082C3E5E3000A058301408080
DBH F0E0C0808001030180020542E7428000
DBH 00C08080020305030000008040810301
DBH 40704C535C5F5F5F8F220802C0300C30
DBH 5F5F5F5F5F5F5F5F3F3F3F3F3F3F3F3F
DBH 5F5F5C5B5A585C5F3F3F3F0F6747070F
DBH 1F8F53A88442C0003F3F3F3F0F1300
DBH 0000000080C0F0FE5329542A14091529
DBH 0011032787C7C7E30080C2C0881D1993
DBH 81000420000000000000FFFFFFFFFFFF00
DBH 3F4F733C4F230802FFFFFFFFF3FCFF33C
DBH 0048069345004281004802000800400
DBH 00100040041020000008400200020088
DBH 1028008800000204002000004800800

L3ATRS

DBH 47474707474747474545470706460707
DBH 0646074646464444406444544440606
DBH 474745450646460646464646460607
DBH 44444444444444444444444444444444
DBH 44454545444444444545454545454545
DBH 45454545454646454545454547454545
DBH 454547474746460646064606444406
DBH 46575707575747464646464647065656
DBH 46474706565646064646460707470606
DBH 46064606064646060646064606460645
DBH 45444545454446464746454545464545
DBH 44464444454544444444444445444545
DBH 45444444454545454545454545454545
DBH 45460746464645074507050547474747
DBH 47474747450744440647474706060606
DBH 0606

L3BLOX

DBH 0201000105066262E90962E50A0B0C0D
DBH 0E0F10111213141501161718191A1718
DBH 1C1D1E1F2021222319252627EAEBCDD
DBH 1C1DECEDEDFEDFE2E3220103042F04
DBH 62E5622462E562E51C1D6B6C6D6E6F24
DBH 6D6E70247D7E83847F80858600016262
DBH 4E1B4F50515253540C5528564E1B5454
DBH 515753545854545454545458544F50
DBH 545459545A5B5C5D19550C5554545E5F
DBH 5A545C5D545605D07085E5F615B605D

DBH 626262636401012856195519650101
DBH 660101016768696A4B4C494D01010101
DBH 2E2501703D3E3F4001014E1B8F909192
DBH 932A9425696A2E252B952D9697019801
DBH 91999A9B940D9C291011676814952B9D
DBH 8E019E019FA001A1A254CCA3A49FA501
DBH A6A7A8A9AAABAC542B952DADAE7A7A9
DBH AA54AF542B802DB1B2B3B4B5B2B3B6B5
DBH 14952B87B8B9BABB5454BCBD5454BEBF
DBH 545454C0BCBDB8B9BEBFB8B954C454C5
DBH BABBB2B3B4C65454E4C754C8C9C7CACB
DBH CDCE54C8CFD0CACB5454777854547878
DBH 54547A54D1547B544142014301014401
DBH 738273798BD18B7DD177808C7A768D73
DBH 548176828B838B83868C868C8D548D76
DBH D6D7D8D9DAD7DBD92829192A2B2C2B15
DBH 2D2E2701303132010101013334353637
DBH 38393A0154547172014546474849494A
DBH 547379787475787887887878898A7878
DBH 73547978737C767C737D738780738A73
DBH 817C8273D154D378D154D47876797878
DBH 8B8778788AD278788D767878D154D554
DBH 73737676C3B6C2C1E6E7B2B3013B013C
DBH C3B64445BAB4A47C3B64949C3B64B4A
DBH BABB4A4B4449494AE83B4A3CE83B013C
DBH 013BE83CC134013CE8A1A1E88F4991B7
DBH 0101B9334A4AB452013B4A3C57C65454
DBH DEDFE0E1EEEEFF0F118EFEEEE

L3MAPX

DBH 000F692F2F6A6B692F2F6A6B692F2F6A
DBH 6B692F2F6A6B692F2F6A6B692F222E6B
DBH 692E322F326E6F2E322F326E6F2E3C2F
DBH 333434366E6F2E1E1E1E1E1E1E1E1E
DBH 1E1E1E1E1E1E1E1E1E1E1E1E1E6465

DBH 000F6C2F2F83316C2F2F83316C2F2F83
DBH 316C2F2F83316C2F2F8331316C2A1D1B
DBH 1C1D1E1A1E1B1C1D1E1A1E1B1C1D372F
DBH 38393A3B1B1C1D1E1E1E1E1E1E1E1E
DBH 1E1E1E1E1E1E1E1E1E1E1E1E1E6465

DBH 000F5A5B2F6E6F2E322F6E6F2E322F6E
DBH 6F2E322F6E6F2E322F322E6E6F222325
DBH 24232522232524232522252524233C2F
DBH 333435362524251E1E1E1E1E1E1E1E
DBH 1E1E1E1E1E1E1E1E1E1E1E1E1E6465

DBH 000F18191A1B1C1D1E1A1B1C1F201A1B
DBH 1C1F201A1B1C1D1E1A1E1D1B1C1A060C
DBH 0C0C0C0C0C0C0C0C0C0C0C0C0C0C0C0C
DBH 0C0C0C0C0C0C0C1E1E1E1E1E1E1E1E
DBH 1E1E1E1E1E1E1E1E1E1E1E1E1E6465

DBH 17010221222324232522232126272223
DBH 21262722232423252223252324079695
DBH 959595959595959595959595959595
DBH 959595959595951E1E1E1E1E1E1E1E
DBH 1E1E1E1E1E1E1E1E1E1E1E1E1E640B

DBH 282811292A2F292F2F2A2F290304052F
DBH 292F2F2A2F292F2F2A2F2F2F06969595
DBH 959595959595959595959595959595
DBH 959595959595951E1E1E1E1E1E1E1E
DBH 1E1E1E1E1E1E1E1E1E1E1E1E1E6494

DBH 2828112F2B2C2F2F2F2B2C2F662D672C
DBH 2F2F2F2B2C2F2F2F2B2C2F0696959595
DBH 959595959595959595959595959595
DBH 959595959595951E1E1E1E1E1E1E1E
DBH 801E1E1E1E1E1E1E1E1E1E1E1E1E640D

DBH 2828100C0C1208080C0813130A306814
DBH 080C12080C0C1208080C089608080808
DBH 080808080808080808080808080808
DBH 080808080808081E1E1E1E1E1E1E1E
DBH 480909090909090909090909090909

L3MAPY

DBH 1E1E1E1E1E6D15166D1E1E1E1E1E56
DBH 5770717273717457581E1E1E591E5975
DBH 767778591E591E1E1E591E595C5D5E5F

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DBH 591E591E1E1E591E5960616263591E59
DBH 1E1E1E79577A7B7C7D7E7A577F1E1E1E
DBH 1E1E8080808080801E1E1E1E1E1E3C
DBH 2F333435480909091E1E1E1E3C2F3334
DBH 35481E1E1E1E1E1E3C2F333435481E
DBH 1E1E3D3E3F3E3C2F333435453F3E3F6E
DBH 3181316E313181688131318181828289
DBH 81825082815081825081816889815081
DBH 5050508281818888818889866F878881
DBH 82508189848A898E896F8E848D898589
DBH 8B8C8C8A8B8B838B8C8C8B8C8E918B8B
DBH 8A838E8F6B6B6F91926F1E1B931B3C2F
DBH 333435361E1B931E1E1E1E3C2F333435
DBH 481E1E1E1E1E4C4D8E2F38393A451E1E
DBH 1E1E1E4F50692F333435364A4B4A1E1E
DBH 1E51692F3334354849491E1E1E1E3C
DBH 2F38393A454647461E1E54552F2F3334
DBH 354243441E1E1E1E1E3C2F38393A4041
DBH 1E1E4C4D4E4D3C2F333435361E1E1E4F
DBH 505050902F38393A481E1E1E1E515253
DBH 692F333435451E1E1E1E1E1E3C2F38
DBH 393A3B1E1E1E1E1E1E372F33343536
DBH 1E1E1E1E1E5455692F333435484A4B
DBH 1E1E1E1E372F38393A454646461E1E1E
DBH 1E372F333435361E1E1E1E1E4C4D6C2F
DBH 38393A3B1E1E1E1E1E4F506C2F333435
DBH 364A4B4A1E1E1E51372F333435484949
DBH 491E1E1E1E3C2F38393A454647461E1E
DBH 54552F2F3334354243441E1E1E1E3C
DBH 2F38393A40411E1E1E1E1E372F3334
DBH 35361E1E1E1E1E1E1E3C2F38393A3B1E
DBH 1E1E4C4D4E4D6C2F333435361E1E1E4F
DBH 5050506B2F38393A3B4A4B4A1E515253
DBH 6C2F3334354849491E1E1E1E3C2F38
DBH 393A454647461E1E1E1E372F33343542
DBH 43441E1E1E1E3C2F38393A40411E1E
DBH 1E1E1E1E372F333435361E1E1E3F3D3E
DBH 3F3C2F38393A3B3E3F3D6B833183372F
DBH 333435366C6B83696A316E3C2F38393A
DBH 3B696B6C326E6F2E3C2F333434366E6F
DBH 2E1E1B1C1D372F38393A3B1B1C1D2525
DBH 24233C2F333435362524250C0C0C0C
DBH 0C0C0C0C0C0C0C9595959595959595
DBH 959595959595959595959595959595
DBH 959595959595959595959595959508
DBH 080808080808080808080808080808

```

L3END

ENDF

```

;*****
; ** END OF FILE **
;*****

;*****
; ** LEVEL 4 STUFF ( DATA , SPRITES AND PROGRAMMING ) **
;*****

```

```

IFLB STARTLEV=4
ORG LEVELDATA

```

LEVEL4DATA

```

DB $20,$40+FLOROF ; HERO X,Y
DB $00 ; MAPX
DB $10 ; MAPY
DB 0 ; 0=SCROLL L/R - 1=SCROLL U/D
DB $DE,$00 ; WEAPON ROOM X,Y INIT
DW $48D8 ; DOOR XY
DB $DE,$10 ; RIGHTMAX,DOWNMAY
DB $AE,$00 ; SETUD,SETLR
DW FLOOR4 ; FLOOR BLOCKS
DW WALL4 ; WALL BLOCKS
DB $17,$FF ; LADDER BLOCKS - $16,$17 - $FF,$FF
DB $FF ; CRAWL ON BLOCK
DB $2B,$29 ; SLIDE UP
DB $04,$0D ; SLIDE DOWN
DW LEV4BADX,LEV4BADX2 ; LEVEL BADDY INITS X,EXTRA X
DW LEV4BADY ; LEVEL BADDY INITS Y
DW L4CHRS ; CHRS
DW L4ATRS ; ATRS

```

```

        DW L4BLOX          ; BLOX
        DW L4MAPX          ; MAPX
        DW L4MAPY          ; MAPY
        DB 128             ; MAPXMAXSIZE

        CALL PRTPLANES:CALL PRTWATER:CALL L4PRTTANK:RET
        JP RESETLEV4BAD
        JP SMODWATER
WAPTABLE4 DB $02,3,$03,3,$04,3,$06,3,$09,3,$0A,2
        JP KILLPLANE        ; KILL BIG
        JP INITTANK4        ; INIT BIG 1
        JP INITPLANES      ; INIT BIG 2
        JP INITWATER        ; INIT BIG 3
        JP RETURN           ; INIT BIG 4

;*****

RESETLEV4BAD XOR A:LD (ISBIGON),A
              LD (PRTWATER+1),A:LD (PRTPLANES+1),A
              LD (L4PRTTANK+1),A
              LD HL,L4TANKATRS1:LD (TANKATRS+1),HL
              LD HL,L4KILLTANK:LD (KILLBIG+1),HL
              LD HL,L4TANKTURRET1:LD (TUR1),HL
              LD HL,L4TANKTURRET2:LD (TUR2),HL
              LD HL,L4TANKTURRET3:LD (TUR3),HL

              RET

;*****

FLOOR4       DB 3+2+3+2+3+1+1+1+2+2+3
              DBH 010215
              DBH 040D
              DBH 06070C
              DBH 2B29
              DBH 110809
              DBH 0E
              DBH 10
              DBH 0B
              DBH 1C1D
              DBH 1819
              DBH 1B1A14

WALL4        DB 1
              DBH FF

;*****

LEV4BADX     DB $04,$FD,$00      ; WATER
              DB $0E,$01,$44,KEY ; BADDY
              DB $18,$01,$54,KEY ; BADDY
              DB $20,$01,$54,KEY ; BADDY
              DB $28,$01,$64,KEY ; BADDY
              DB $30,$01,$54,KEY ; BADDY
              DB $3C,$01,$64,KEY ; BADDY
              DB $40,$FF,$28      ; TANK
              DB $50,$01,$54,KEY ; BADDY
              DB $54,$FD,$01      ; WATER
              DB $64,$01,$64,KEY ; BADDY
              DB $8C,$FF,$28      ; TANK
              DB $90,$FD,$02      ; WATER
              DB $A4,$01,$64,KEY ; BADDY
              DB $A8,$01,$64,KEY ; BADDY
              DB $AA,$05,$E0,$68 ; TANK TOP
              DB $FF,$FF          ; END OF DATA
LEV4BADY     DB $06,$FB,$06      ; SCROLL
              DB $00,$FE          ; PLANES
              DB $FF,$FF          ; END OF DATA
LEV4BADX2    DB $FF,$FF          ; END OF DATA

;*****
; ** PRT PLANES ON SCREEN **
;*****

SMODWATER    LD A,(PRTWATER+1):OR A:RET Z
              LD A,(WATERX+1):ADD A,L:LD (WATERX+1),A:CP $E8:RET C
              XOR A:LD (PRTWATER+1),A:RET

INITWATER    CALL GETDATA:LD (WATERNUM+1),A
              LD A,1:LD (PRTWATER+1),A:LD (FISHON+1),A

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```

LD DE,$00E8:LD (WATERX+1),DE
LD A,63:LD (FISHY+1),A
RET

PRTWATER LD A,1:OR A:RET Z
LD A,(POS):AND 3:JR Z,FISHON
LD DE,128:LD HL,WATERSPR-128:CALL MULT
WATERX LD DE,$0088
WATERNUM LD A,2:OR A:JR Z,WATER1
WATER2 CALL WATER:CALL WATER:CALL WATER
LD A,D:ADD A,$18:LD D,A:LD A,L:ADD A,$20:LD L,A
ADC A,H:SUB L:LD H,A:LD BC,$0404:CALL BAXIT:JP FISHON
WATER1 CALL WATER:CALL WATER:LD BC,$0408:CALL WATER+3
LD A,D:ADD A,$08:LD D,A:LD A,L:ADD A,$20:LD L,A
ADC A,H:SUB L:LD H,A:LD BC,$040C:CALL BAXIT
FISHON LD A,0:OR A:RET Z
FISHY LD A,63:DEC A:AND 31:LD (FISHY+1),A:RRA :CP 4:RET NC
LD HL,FISHSPR:LD DE,1+2+16+2:CALL MULT
LD A,(WATERX+1):ADD A,8:LD E,A:LD D,(HL):INC HL
PUSH DE:CALL BAXITA:POP DE:LD IX,FISHON-1:LD BC,$0810
CALL ISBULINBOX:LD A,(FISHON+1):OR A:RET NZ
LD A,(LIVES):INC A:LD (LIVES),A:RET

WATER LD BC,$0410:PUSH HL:PUSH DE:CALL BAXIT:POP DE:POP HL
LD A,D:ADD A,$20:LD D,A:RET

FISHSPR DB $30,1,2*8
DBH 080008000280E2F7F3E181818924439
DBH 4747

DB $28,1,2*8
DBH 4061733F1E1C3978FCFCFEFEDA7A3400
DBH 4747

DB $20,1,2*8
DBH 1042E67E3C18383C1E3F7FD6F6542800
DBH 4747

DB $20,1,2*8
DBH 5C82B97D55742A010A04A381A8366742
DBH 4745

WATERSPR DBH FB16A893071D5BF5FA636D27072616FC
DBH FA1AB503419A29F4E82D5600004DAD30
DBH 00D21001030255C2E1204007051029A0
DBH 624AA30703A954C2045400102040A504
DBH 00CA422010682402C0A320012392C1F0
DBH FA68A94707D636FDFE275B0F0F1242FC
DBH EAAD309F5F6944FFFB064C1F4FA496FF
DBH FFB0B40F27D199FFED29D41753A856F6

DBH FBAD3081056A44F5FA064D010BA496FC
DBH FAB0B50321D099F4E829D40000A81630
DBH 0156AA01031C2BC1E0A36D07852686A0
DBH 604AB507039A19C2008D5680404DAD00
DBH 00521400006D500C1204281031129F1
DBH F80AA38727A994FCFE14008F4F4025FC
DBH EA0A429F1F6804FFFB3201F1F9281FF
DBH FFA8A98F8FD636FFEE675CCF4F16C2F6

DBH FB2A4287476824F5FA33200F079211FC
DBH FA2BA91301D636F4E8675C2000164232
DBH 00AD3009036A44C5E1864D0785A496B2
DBH 6230B50703D019C10529D40040A89600
DBH 02D6A820001DSB00C2236C91032656F1
DBH F81AB487C79949FCFE6D548F0F4DADFC
DBH EA92109FDF0215FFFB20405F0F1029FF
DBH FF8AA3A793A914FFEE54009B0B40A5F4

;*****

INITPLANES LD HL,PLANESB:LD DE,PLANES:LD BC,10*4:LDIR
LD HL,TRAINSB:LD DE,TRAINS:LD BC,10*3:LDIR
LD A,10:LD (PLANENUM),A
XOR A:LD (CNTP+1),A
INC A:LD (NOSROLL+1),A:LD (PRTPLANES+1),A
LD A,(PLANESB+3):LD (BIGHTS),A
LD HL,KILLPLANE:LD (KILLBIG+1),HL

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LD A,8:JP PLAYMUSIC

GOSMALLPLANES LD A,(POS):AND 1:LD DE,6:LD HL,TRAILSPR:CALL MULT
LD (TRAILAD+1),HL
LD IY,PLANES:LD IX,TRAINS:LD B,10
TRAINBLP PUSH BC:LD A,(IY+03):OR A:JR Z,SKPTRAIN
LD A,(IX+00):ADD A,(IX+02):LD (IX+00),A:LD E,A
LD D,(IX+01):LD HL,SMALLPLANESPR
LD BC,$0208:LD A,(IX+02):OR A:JP P,RIT
LIT PUSH DE:CALL MASKCXB:POP DE
LD A,E:ADD A,$10:LD E,A:LD A,D:ADD A,$07:LD D,A
TRAILAD LD HL,0:LD BC,$0301:CALL MASKCXB:JR SKPTRAIN
RIT PUSH DE:CALL MASKCXB:POP DE
LD A,E:SUB $18:LD E,A:LD A,D:ADD A,$07:LD D,A
LD HL,(TRAILAD+1):LD BC,$0301:CALL MASKCXB
SKPTRAIN POP BC:LD DE,3:ADD IX,DE:INC E:ADD IY,DE:DJNZ TRAINBLP
CNT LD A,0:INC A:AND 31:LD (CNT+1),A:JP Z,CHBLB
XOR A:LD (ISBIGON),A:RET

PRTPLANES LD A,1:OR A:RET Z:LD (NOSROLL+1),A
CALL PRYSMOKE
LD A,(PLANENUM):CP 10:JP Z,GOSMALLPLANES
LD IX,PLANES:LD B,10
PRTPLANEPLP PUSH BC:LD A,(IX+03):OR A:JP Z,SKPPLANE
LD A,(IX+02):OR A:JP Z,SKPPLANE
OR A:JP P,PLANERIGHT
PLANELEFT LD E,(IX+00):LD D,(IX+01):PUSH DE
PUSH DE:LD HL,PLANEATR:LD BC,$0705:CALL BAXATR:POP DE
PUSH DE:LD A,D:ADD A,$08:LD D,A:LD HL,PLANETIP
LD BC,$0308:CALL MASKCXB:POP DE
LD A,E:ADD A,$18:LD E,A:PUSH DE:LD HL,PLANETOP
LD BC,$0404:CALL MASKCXB:POP DE
LD A,D:ADD A,8:LD D,A:PUSH DE:LD HL,PLANEMID
LD BC,$040C:CALL BAXIT:POP DE
LD A,E:ADD A,8:LD E,A:LD A,D:ADD A,$18:LD D,A
LD HL,PLANEBOT:LD BC,$0304:CALL BAXIT
POP DE:LD A,E:ADD A,$28:LD E,A
CP $18:JR NC,TRYSMOKE:JR MOVEPLANE

PLANERIGHT LD E,(IX+00):LD D,(IX+01):PUSH DE
PUSH DE:LD HL,PLANEATRMIR:LD BC,$0705:CALL BAXATR:POP DE
PUSH DE:LD HL,PLANETOP:LD BC,$0404:CALL MASKCXB:POP DE

LD A,D:ADD A,8:LD D,A:PUSH DE:LD HL,PLANEMID
LD BC,$040C:CALL BAXITMIR:POP DE

PUSH DE:LD A,D:ADD A,$18:LD D,A:LD HL,PLANEBOT
LD BC,$0304:CALL BAXITMIR:POP DE

LD A,E:ADD A,$20:LD E,A:LD HL,PLANETIP
LD BC,$0308:CALL MASKCXB:POP DE

POP DE

TRYSMOKE LD A,E:AND $08:JR NZ,MOVEPLANE
LD IY,SMOKES:LD B,8
TRYSLP LD A,(IY+02):CP 6:JR NC,GOTSMOKE:INC IY:INC IY:INC IY
DJNZ TRYSLP:JR MOVEPLANE
GOTSMOKE LD A,E:LD (IY+00),A:LD A,D:LD (IY+01),A:LD (IY+02),0
MOVEPLANE

DROP LD A,0:OR A:JR NZ,NAMI

LD A,(IX+02):ADD A,A:ADD A,A:ADD A,A
ADD A,(IX+00):ADD A,$10:LD E,A:LD D,$07
LD A,(HEROX+1):ADD A,8:LD L,A:LD H,$0F
CALL HITA:JR NC,NUMI

LD A,(IX+00):ADD A,$10:LD E,A
CALL HITA:JR C,NAMI
LD A,8:JR AMK

NUMI LD A,(IX+00):ADD A,$10:LD E,A
LD A,(IX+02):OR A:LD A,6:JP P,AMK:LD A,10
AMK LD (DROP+1),A:LD D,(IX+01):LD B,4
PUSH IX:CALL INITMIS:POP IX

NAMI LD A,(IX+00):ADD A,(IX+02):LD (IX+00),A
AND $F0:CP $E0:JR Z,NEXTPLANE
LD L,(IX+00):LD H,$38:LD (BIGX1),HL

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LD L,(IX+01):LD H,$18:LD (BIGY1),HL
LD A,1:LD (ISBIGON),A:JR SKPLANE

NEXTPLANE LD A,(IX+00):ADD A,(IX+02):LD (IX+00),A
LD (IX+02),0:CALL CHANGEPLANE

SKPLANE POP BC:LD DE,4:ADD IX,DE:DEC B:JP NZ,PRTPLANEBLP:RET

KILLPLANE LD A,(PLANENUM):LD DE,4:LD HL,PLANES+3:CALL MULT
XOR A:LD (HL),A:DEC HL:LD (HL),A:LD (ISBIGON),A
DEC HL:LD D,(HL):DEC HL:LD E,(HL):PUSH IX
PUSH DE:LD A,E:ADD A,$20:LD E,A:CALL INITEXPNO:POP DE
PUSH DE:LD A,D:ADD A,$18:LD D,A:CALL INITEXPNO:POP DE
CALL INITEXPNO:POP IX

CHANGEPLANE LD A,(BIGHITS):LD (IX+03),A
CHBLB LD B,10
CHBL LD A,(PLANENUM):INC A:CP 11:JR C,CHPL:XOR A
CHPL LD (PLANENUM),A:LD C,A:CP 10:JR Z,NOBION
LD HL,PLANES+3:LD DE,4:CALL MULT
LD A,(HL):OR A:JR NZ,SHBL:DJNZ CHBL
KILPLAN XOR A:LD (NOSCROLL+1),A:LD (PRTPLANES+1),A:RET
SHBL LD (BIGHITS),A:DEC HL:LD A,C:CP 1:AND 1
ADD A,A:ADD A,A:ADD A,A:ADD A,A
SUB 8
; ADD A,A:SUB 16
LD (HL),A
XOR A:LD (DROP+1),A:RET
NOBION XOR A:LD (ISBIGON),A:LD (CNT+1),A
LD HL,PLANES+3:LD DE,4:LD B,10
NALD LD A,(HL):OR A:RET NZ:ADD HL,DE:DJNZ NALD:JR KILPLAN

PRTSMOKE LD IX,SMOKES:LD B,8
PRTSMOKEBLP LD A,(IX+02):CP 6:JR NC,NOSMOKE
LD HL,SMOKECLOUD:LD DE,$40:CALL MULT
PUSH BC:LD E,(IX+00):LD D,(IX+01)
PUSH HL:PUSH DE:LD BC,$0208:CALL MASKCXB:POP DE:POP HL
LD A,D:ADD A,$18:LD D,A:LD BC,$0208:CALL MASKCXB
POP BC:LD A,(POS):AND 1:JR NZ,NOSMOKE:INC (IX+02)
NOSMOKE LD DE,3:ADD IX,DE:DJNZ PRTSMOKEBLP:RET

SMOKES DS 8*3,$FF

TRAINS DS 10*3,0
TRAINS DB $F0,$10,-8
DB $00,$18,08
DB $E8,$20,-8
DB $08,$28,08
DB $E0,$30,-8
DB $10,$38,08
DB $E8,$40,-8
DB $08,$48,08
DB $F0,$50,-8
DB $00,$58,08

PLANENUM DB 0
PLANES DS 10*4,0
PLANESB DW $08E8,$1008
DW $10E0,$1000
DW $20E8,$1000
DW $10E0,$1000
DW $20E8,$1000
DW $10E0,$1000
DW $08E8,$1000
DW $10E0,$1000
DW $20E8,$1000
DW $10E0,$1000

PLANETIP DBH FF00FF008100007EFE00FF00FF000401
DBH 0081006000FAF800E007000400400000
DBH 00F4C018802700F40000000000FA0057
DBH 004A00FD0081007E00548021C018000A
DBH 008100540000E006F80100E000000000
DBH 001FFE00FF00E00000FF0000FF00FF00

PLANETOP DBH FF00FF00007B037C01820084FE00FF00
DBH E00000010053013A016200A700FFC01F
DBH 8020000000F001D005D009F002F004F
DBH 0055002A003F007D004D007F00008000

PLANEMID

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DBH 4000FF1D027E9EC249FFC7D01F84FAA
 DBH 540001F905F0FF4140000001020300B4
 DBH 75FFF4FD010300E8D020077901CF4FC2
 DBH 649F9F31053F9F3C193E7F0102FF3C89
 DBH 4000001DDDF2F8F952AAABD0D000080
 DBH C000001DC1FFFF4740003FE1E11FFF3F
 PLANEBOT
 DBH 408FF2F147809A23F9F9118D8E0C05FD0398C08003FE7F7F

PLANEATR
 DBH 00000005050705
 DBH 47470707070706
 DBH 47470707070706
 DBH 00000045454505
 DBH 0000000054545

PLANEATRMIR
 DBH 05070505000000
 DBH 06070707074747
 DBH 06070707074747
 DBH 05454545000000
 DBH 45450500000000

SMALLPLANESPR
 DBH FF00E700C318FF00FF00012400E6FA00
 DBH F00501040002E002801C010400020060
 DBH 001C00020104E002F80100020104F005
 DBH F80000820174FF00FF00811CE300FF00

SMOKECLOUD
 DBH FF00FF00FF00F600E0095F0007A0C013
 DBH E00703D807F0C003802E0328019CC00D
 DBH C01A03D8015CC019C01403B00368E00A
 DBH F00401D42B00E00BF400FF00FF00FF00
 DBH B700E500401A0148A01601BC0328C003
 DBH 8010011C00AE0059803200C6016C8024
 DBH 005403A0012C80328029004E011CC018
 DBH 8004012403580057A80227807F00FD00
 DBH D900E300811C88268013004A01240440
 DBH 8F20000A00C2823003640022C1140348
 DBH 8300E300D100812408628022014C1D40
 DBH 883480020128C00F802607609F00D900
 DBH E900F300E10CC0168021400281208010
 DBH 0046C11AE10C810C8320F104E3088F20
 DBH C710F700F500C3088328E00AC100C10C
 DBH C114813400628338C0168128D700E900
 DBH AF00BF00174007508F20A308D104DF00
 DBH EF008920D802C710CF00FD00F8028F20
 DBH DF00F104F900EF00C710F802FD00CF00
 DBH 8F20EB00C114D700E308E308F700F700
 DBH DF00F700E3088F20DF00F700FF00FF00
 DBH FF00FD00F802BF001F40FD00FF00BF00
 DBH FF00FF00FF00FF00FF00FF00FD00FF00
 DBH BF00F802F9001F408F20F104FB00DF00

TRAILSPR
 DBH 2EFBB0
 DBH DC6D17
 DBH D56FE8
 DBH F5B72B

 ;
 ;** PRT TANK **
 ;
 ;*****

L4KILLTANK XOR A:LD (NOScroll+1),A:LD (L4PRTTANK+1),A
 LD (ISBIGON),A:PUSH BC:PUSH IX
 LD DE,(L4TANKX+1):LD A,D:ADD A,\$10:LD D,A
 PUSH DE:LD A,E:ADD A,\$10:LD E,A:CALL INITEXPNOEND:POP DE
 PUSH DE:LD A,D:ADD A,\$20:LD D,A:CALL INITEXPNOEND:POP DE
 LD A,E:ADD A,\$20:LD E,A:CALL INITEXPNOEND
 POP IX:POP BC:RET

L4CHTD LD A,(L4TANKD+1):NEG :LD (L4TANKD+1),A:JR L4GTNK

```

INITTANK4    LD A,1:LD (L4PRTTANK+1),A:LD A,-4:LD (L4TANKD+1),A
              LD A,$20:LD (BIGHTS),A:LD A,13:LD (L4TNM+1),A
              CALL GETDATA:LD D,A:LD E,$D8:LD (L4TANKX+1),DE:RET

L4PRTTANK    LD A,0:OR A:RET Z
              LD (ISBIGON),A:LD (NOSROLL+1),A

L4TANKX      LD DE,$FFFF:LD A,E
L4TANKD      ADD A,0:CP $D8:JP NC,L4CHTD:CP $70:JP C,L4CHTD
              LD E,A:LD (L4TANKX+1),DE

L4GTNK       LD A,(POS):AND $13:JR NZ,L4TANKZ

              LD DE,(L4TANKX+1):LD A,E:ADD A,$18:LD E,A
              PUSH DE:LD A,D:ADD A,$18:LD D,A
              LD A,(HEROX+2):ADD A,$10:CP D:LD L,13:JR C,L4FHU
              SUB $10:CP D:LD L,12:JR C,L4FHU:LD L,11

L4FHU        LD A,L:LD (L4TNM+1),A:POP DE:LD A,D:ADD A,$08:LD D,A
              LD A,L:LD B,4:CALL INITBAL

L4TANKZ      LD DE,(L4TANKX+1)
              LD A,3*4:LD (PRTSPRBLP-1),A
              PUSH DE:LD A,E:ADD A,$10:LD E,A:PUSH DE

L4TNM        LD A,0:SUB 12:NEG :INC A:LD DE,192
              LD HL,L4TANKTURRET1:CALL MULT:POP DE:CALL NC,PRTSPR:POP DE

              PUSH DE:LD A,E:ADD A,$10:LD E,A:LD HL,L4TANKATRS1
              LD BC,$0403:CALL BAXATR:POP DE
              LD A,D:ADD A,$18:LD D,A:PUSH DE:LD HL,L4TANKATRS2
              LD BC,$0904:CALL BAXATR:POP DE

              PUSH DE:LD A,E:ADD A,$18:LD E,A:LD HL,L4TANKMID2
              LD BC,$0308:CALL NC,BAXIT:POP DE

              PUSH DE:LD HL,L4TANKMID1
              LD BC,$0308:CALL MASKCXB:POP DE

              PUSH DE:LD A,E:ADD A,$30:LD E,A:LD HL,L4TANKMID1
              LD BC,$0308:CALL NC,MASKCXBMR:POP DE

              LD A,D:ADD A,$0F:LD D,A
              PUSH DE:CALL L4PRTWHEEL:POP DE
              LD A,E:ADD A,$18:LD E,A:JR C,L4FKJ
              PUSH DE:CALL L4PRTWHEEL:POP DE
              LD A,E:ADD A,$18:LD E,A:JR C,L4FKJ

L4PRTWHEEL   LD A,(POS):AND 2:LD HL,L4TANKWHEEL1:JR Z,L4WEEL
              LD HL,L4TANKWHEEL2

L4WEEL       PUSH DE:LD BC,$0304:CALL BAXIT:EX DE,HL:POP DE
              LD A,D:ADD A,8:LD D,A:LD BC,$0308:CALL MASKCXB

L4FKJ        LD A,(L4TANKX+1):ADD 16:LD L,A:LD H,31:LD (BIGX1),HL
              LD HL,(L4TANKX+2):LD H,$37:LD (BIGY1),HL:RET

L4TANKMID1   DBH FF00FF000001007EFC00FF00FF00E003
              DBH 00800060001CFF00FC0000E300800080
              DBH 001FF803F004007C006000F60063E009
              DBH E00B001F0086004E00FCC012C01600E3
              DBH 00BC006A001F8025802C00F5007C006A
              DBH 00AB0043007D00550074000000000040

L4TANKMID2   DBH C400460100001FFFFE0000001FFFFE56
              DBH 6B3D7FFFFE4620558064CCC660002766
              DBH CCFCFF53255AA854F553255AA8000000

L4TANKWHEEL1 DBH 000000FCFF3F7FFFFE0E007070360E8E80747A001E2C2A30
              DBH C000008103000114002A802080210076
              DBH 01840002007F00400041003E00820002
              DBH 006D0040004100560082000200810040
              DBH 8020002A0104010400008020C0100000
              DBH 030807100000E008F00600000F601F80
              DBH 0081F801FE00007E7F00FF008100FF00

L4TANKWHEEL2 DBH 000000FCFF3F7FFFFE0E007070360E8E80747A001E2C2A30
              DBH E002000007200328002AC01080200080
              DBH 010C0194003C80210040005A00020042
              DBH 00BD0042004000BD00020042005A0042
              DBH 00400024008200020001004180200054
              DBH 0104010400008020C0180000031807E0
              DBH 0000E007F80000FF1F00FF000000FF00

L4TANKTURRET1

```

DBH FF00C0083008300017C007C803FFF00
DBH FF0080210083008600120079802EFF00
DBH FF00004E00E4008A000A0006005CFF00
DBH FF0000580066002A00CA000D0000C000
DBH 803F0098003900E200E2000300CB005F
DBH 005F009900C701B4011400DF000B0055
DBH 004A0018006E0032005200BC000B0050
DBH 0040001800580022000A00200088803F
DBH C000001800000052002200FE0058FF00
DBH FF00005800FF0104010C0083005AFF00
DBH FF00005800980072000A00AB0042FF00
DBH FF00007C009B0076090000008000FF00

L4TANKTURRET2

DBH FF00810083008300017C007C007EFF00
DBH FF00004300830086001200790059FF00
DBH FF00005C00E4008A000A0006004CFF00
DBH FF00004E0026002A00CA000D0010C000
DBH 803F00D6003900E200E2004300E2006F
DBH 004700F6006701B40194007700420045
DBH 00460086001B00320052006F00020044
DBH 0068000600160022000A000800C2803F
DBH C000000600000052002200FE0056FF00
DBH FF00005600FF0104010C00830056FF00
DBH FF000056009B0072000A00AB0060FF00
DBH FF00803E009B007609000000C000FF00

L4TANKTURRET3

DBH FF00010083008300017C007C00FEFE00
DBH FE000083008300860012007900B9FE00
DBH FE00009E0024008A000A0008600A7FE00
DBH FE00009900C6002A00CA000D0006E000
DBH C01F00E200D900E200E2004300F28033
DBH 802100F800C301F401D4005B00508021
DBH 802100A000DD00B20092004700008021
DBH 8032000000D30022000A004800F0C01F
DBH E000000000000052002200FE0082FE00
DBH FE00008200FF0104010C00830082FE00
DBH FE00008E009B0072000A00AB00E0FE00
DBH FF00003E009B007609000000C000FF00

L4TANKATRS1

DBH 00444545
DBH 44044545
DBH 00040445

DBH 45454400
DBH 45450444
DBH 45040400

L4TANKATRS2

DBH 000007444444070000
DBH 000707040404070700
DBH 050505050505050505
DBH 004600004600004600

LEVEL4END

L4CHRS

DBH 552B8245A050B271FFFFF07AB1583C8
DBH A367CBD78B970B05F7FFFFF7FFB5CA
DBH FBF5FAFCFAF4E83284002E57BE7F7FFF
DBH 81306B6579BCD800C31D2E86D68C11C0
DBH 0583458A158B150AFFFFFFFFF7FFF
DBH 4299BCSE4A24184212AB56AB7DAEDBFF
DBH 030B15230913050F408F1D3F371E3739
DBH 23AAD5ABDDFBFF7208DDFCFEFF7F00
DBH 0279DCCE7AE6BE6CB55AB47AF45AF4E8
DBH 9C3E1F4EA6C4A4CC02593C7DFAF1ED3C
DBH 9CBA367E7C7870387E3E3C1A1C1A0C1E
DBH 007CFAFDFAF4E8F2E00002152F5F2FDF
DBH E5D3E5CA85CB950A5201C2F5F8FCFEFC
DBH FAD4A0478B150F1FEAFFBFF7FFFEF7
DBH 172F1F2F178F958A172B152F150F172B
DBH 2E343A1E3E2C1A1C1E0C3C1A2C3C3A1C
DBH FFFFFFFF7F0279DCEA7EEEBE6C
DBH F4EAF458F468F4D83E7C7C69311D3CBE
DBH BE9C5DCDA9C4A258A367CBD78B170B05
DBH 3B1F2D333D1B0E80B55AB47AF45AF4EA
DBH 7CFAFCEE6FCE801F45AF468F4D8B458
DBH FFBFBDEEFB752000022854AA5A5508
DBH 0308274F5DDF9F310B80C977FBF7FA3

DBH 00D42A542A142000400954A854AA4400
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DBH FFFFFFFF2B15C2E1E1F4D8A1C3962C51
DBH 0000000000060F03F1F0E00000080C0
DBH 3D7E7F7F3E1C00000080C0E4FEFFB5CA
DBH 468D073A7DFEFEFEF0F0C78F1F3E7C08
DBH 7C390101010000C0F0F9FBFBFBF30100
DBH 140083C74F1F3E7C3B14C0E3A70F1E3C
DBH 18E8F1F3F3F3E3017811E3F3F3F3F1E0
DBH A250078FDF3F7EFC1400C0E78F1F3E7C
DBH 18E0F1F3F3F3E301F809E3F3F3F3F1E0
DBH B54B1582C11C3E7E38D1E3E7E1EEDF3F
DBH 001079F347AF1E3C066CD8B34727F7FB
DBH 7831C3E3F3F1E0C00005CA942B67CF0F
DBH 893D7E7E7FBEDCC0EFF7F8F8F8F0E000
DBH C0800002162C78380000000080140F1F
DBH 3F1F0E00000060F080C0E4F8CFEFFFFF
DBH 7C390101010088F6C0810103271F1F3F
DBH F8F0E000001053A000000078B150F1F
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DBH 000A0583014080800810204040818381
DBH 80020542E742800000C0808002030503
DBH 000000804081030140704C535C5F5F5F
DBH 5F5F5F5F5F5F5F5F3F3F3F3F3F3F3F3F
DBH 679946A1B078FEFF3F3F3F4F330C1300
DBH 8040A01008A41200006FFCF3C7BF7FC3
DBH 0279DCEE7AE6E6CC5CDC5CDC4CCC4CD
DBH FFFFFFFF05500FF040C04CDC5CDC5CD
DBH 000000FFFFFFFFF3C3C3C3005500C3
DBH C5CDC5CD050D05CD030303C3C3C3C3
DBH C5CDC5CDC5CDCA367CB078B970B05
DBH F7FFFFFFFFF7FB5CA007CFAFDFAF4E8F2
DBH E00002152F5F2FDF0583458A158B150A
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DBH 0A04A381A836674210024010A3A90040
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DBH 306A4DA4B5D0D4A90040210307072F0F
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DBH 000080C0E0F0F8F8F478F1000000846
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DBH 00000000000608200000010204040808
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DBH FFFFFFFFFFFFFFFFFF2894E8F0E8F0E8D0
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DBH 52290400005000077DD6031EE00000
DBH BF772B376EF7FEDE050A04080408000
DBH 7EFCB0C000000004020180700000000
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DBH 47F7E3D1A080033C000000000C1A3DFC
DBH FAF4A04000227DE200000008041E23C
DBH 7061221C000000003F4F733C4F230802
DBH FFFFFFFF3CFF33C8F220802C0300C30

L4ATRS

DBH 0646464646460444646070505470547
DBH 470544440444464646464646050747
DBH 454705444464647054705050547470505
DBH 47470707460746474746470747470707
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DBH 07470707474747474747474745474707
DBH 474547474545474747474747

L4BLOX

DBH 7D7E7F7E7D4F7F2B2C2D2E2F30173132
DBH 37380239191A33343A3B3C3D3E3F4041
DBH 4243444546014732040533340448494A
DBH 4B4C4D4E503818513A3B523D271E0F28
DBH 4B4C4D535657494AE9EA5FEB60616061
DBH 62632E64652D2E2B6B6C6D6E6768696A
DBH 862D2E2F65862E2B2C2D2E882C2D882F
DBH 4243448B8C438D4595969798999A9B9C
DBH 9D9E1B9FA0A1A2A37E7E97987E7E9B9C
DBH 8889696A898A6D6E000125031D1E0C26
DBH 2901270354551B1C0A2A180958360809
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DBH 7EACADAEAFB0B1B2B3B4B5B6B77EB87E
DBH 7E7EAB9BA7E7E7E7EBB87EBCBDBEBF
DBH C0C1C2C3C4C5C6C77EC87EBAC9CA7EB4
DBH CB7EB77EA4A57E7EA87EA9CCB97EA87E
DBH 7EB97E7E7EBB7E7ECDCE7ECFD0D1D2D3

;

DBH D4D5D6BBABD77EB9D8CA7EFFCB7E7E
DBH D4D5D6BBABD77EB9D8CA7E7ECBCA7E7E

DBH CBD97EB97E7EA6DA7E7EDBDAA9DCDDDE
DBH DF7EE07E7E7EE1E27E7EE3E4E5E2E6E7
DBH 7E7ECBD9E87E7E7E

L4MAPX

DBH 2E414446583150323B5144314446441E
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DBH 4431503D3B5144314446443144464431
DBH 50323B514431441E1F31444644315032
DBH 3B514431444644314446593150333B51
DBH 44314446441E1F4A4B4A4D4E4F4A4B4A
DBH 4C24254A616254546364656667545454
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DBH 5556555655202156555F5B475D565556
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DBH 28314431443144312631593134352831
DBH 44314431261E1F314431270F28314431
DBH 48171631717273747576777868797A7B
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DBH 55562A2F305655565556555655565556
DBH 2A2F3056555655202156555655562A2F
DBH 3056555655565556555658562A2F3056
DBH 555655565520215655562A2F30565556
DBH 491716567D7E7F8054545454545454
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DBH 481716315454545454545454545454
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DBH 02150215021502150215151454545454

L4MAPY

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DBH 845454545454545454548554545454
DBH 545454545454545454541502150215
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DBH 31443144314817163156555655565556
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L4END

ENDF

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; ** END OF FILE **
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;
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;
*****
; ** LEVEL 5 STUFF ( DATA , SPRITES AND PROGRAMMING ) **
;
*****
```



```
IFLB STARTLEV=5
ORG LEVELDATA
```

LEVELSDATA

```
DB $C0,$20+FLOROF ; HERO X,Y
DB $66 ; MAPX
DB $2C ; MAPY
DB 0 ; 0=SCROLL L/R - 1=SCROLL U/D
DB $01,$00 ; WEAPON ROOM X,Y INIT
DW $28D8 ; DOOR XY
DB $82,$6C ; RIGHTMAX,DOWNMAX
DB $00,$FF ; SETUD,SETLR
DW FLOOR5 ; FLOOR BLOCKS
DW WALL5 ; WALL BLOCKS
DB $1B,$07 ; LADDER BLOCKS - $1B,$1C - $07,$08
DB $FF ; CRAWL ON BLOCK
DB $FF,$FF ; SLIDE UP
DB $FF,$FF ; SLIDE DOWN
DW LEVSBADX,LEVSBADX2 ; LEVEL BADDY INITS X,EXTRA X
DW LEVSBADY ; LEVEL BADDY INITS Y
DW L5CHRS ; CHRS
DW L5ATRS ; ATRS
DW L5BLOX ; BLOX
DW L5MAPX ; MAPX
DW L5MAPY ; MAPY
DB 82 ; MAPXMAXSIZE
```

```
CALL PRTPARKS:CALL PRTIVAN:CALL PRTHELI:RET
JP RESETLEVSBAD
JP SMOLECCY
```

```
WAPTABLES DB $00,3,$02,3,$04,3,$08,3,$0A,6,$08,2
JP KILLIVAN ; KILL BIG
JP INITIVAN ; INIT BIG 1
JP INITLECCY ; INIT BIG 2
JP INITHELI ; INIT BIG 3
JP RETURN ; INIT BIG 4
```

```
RESETLEVSBAD XOR A:LD (ISBIGON),A:LD (PRTIVAN+1),A
LD (PRTHELI+1),A
LD HL,L5TANKATRS1:LD (TANKATRS+1),HL
LD HL,L5TANKTURRET1:LD (TUR1),HL
LD HL,L5TANKTURRET2:LD (TUR2),HL
LD HL,L5TANKTURRET3:LD (TUR3),HL

LD HL,BADDY5CLIMBS:LD DE,BC1:LD BC,4*5:LDIR

LD IX,LECY5:LD DE,4:LD B,6
RESLEC LD (IX+02),0:LD (IX+03),0:ADD IX,DE:DJNZ RESLEC:RET

BADDY5CLIMBS DW BADDYCLIMB51:DB 11,0,-6; BAD CLIMB
DW BADDYCLIMB52:DB 10,0,-4; BAD CLIMB
DW BADDYCLIMB53:DB 11,0,-6; BAD CLIMB
DW BADDYCLIMB54:DB 10,0,-4; BAD CLIMB
```

```
FLOOR5 DB 3+1+3+6+3+2+7+3
DBH 000203
DBH 04
DBH ADAFB1
DBH 121516171819
DBH 06050C
DBH 9C9D
DBH 11ABC5C4C3CZAA
DBH 691D1E
```

```
WALL5 DB 3+1+1+1+1
DBH 0D0F10
DBH 41
DBH 40
DBH A9
DBH A3
```

```
LEVSBADX DB $FF,$FF ; END OF DATA
LEVSBADY DB $38,$09,$FC,KEY ; CLIMBER
DB $40,$09,$FC,KEY ; CLIMBER
```

```

DB $48,$09,$FC,KEY ; CLIMBER
DB $50,$09,$FC,KEY ; CLIMBER
DB $58,$09,$FC,KEY ; CLIMBER
DB $60,$09,$FC,KEY ; CLIMBER
DB $6C,$FF ; IVAN
DB $08,$04,$C0,$10 ; TANK TOP
DB $FF,$FF ; END OF DATA
LEV5BADX2 DB $60,$03,$64,KEY ; BADDY
DB $58,$03,$64,KEY ; BADDY
DB $50,$03,$64,KEY ; BADDY
DB $48,$04,$00,$68 ; TANK TOP
DB $40,$04,$00,$68 ; TANK TOP
DB $3A,$FD ; HELICOPTER
DB $34,$FE ; ELECTRICITY
DB $30,$FE ; ELECTRICITY
DB $2C,$FE ; ELECTRICITY
DB $28,$FE ; ELECTRICITY
DB $24,$FE ; ELECTRICITY
DB $20,$FE ; ELECTRICITY
DB $10,$FB,$08 ; SCROLL
DB $0A,$04,$00,$58 ; TANK TOP
DB $FF,$FF ; END OF DATA

```

```

;*****
; ** PRT IVAN SPRITE BITS **
;*****

```

```

LECXYS DS 6*4,0

INITIVAN LD A,1:LD (PRTIVAN+1),A:LD (NOScroll+1),A
LD A,$40:LD (BIGHITS),A
LD HL,LECXYS:LD DE,IVANLECS:LD B,4
INITIVBLP LD A,(DE):LD (HL),A:INC HL:INC DE
LD (HL),$10:INC HL
LD (HL),$10:INC HL
LD (HL),$10:INC HL:DJNZ INITIVBLP
LD HL,KILLIVAN:LD (KILLBIG+1),HL
LD A,6:JP PLAYMUSIC

IVANLECS DBH 30406070

PRTIVAN LD A,0:OR A:RET Z
CALL IVANXY
PUSH DE:LD HL,IVANSR:LD BC,$0310:CALL MASKCXB:POP DE

CALL BATAD:LD A,(POS):AND 1:ADD A,$46
LD DE,32-2:LD B,4
BIV LD (HL),A:INC HL:LD (HL),A:INC HL:LD (HL),A
ADD HL,DE:DJNZ BIV

LD A,(NOLEC+1):OR A:JR NZ,IVANCNT:CALL IVANXY
LD HL,(IVANXY+1):LD A,H:LD H,$17:LD (BIGX1),HL
LD L,A:LD H,$1F:LD (BIGY1),HL:LD A,1:LD (ISBIGON),A
LD A,0:INC A:LD (IVANCNT+1),A
LD C,A:AND 8007:RET NZ
LD A,C:AND 8070:CP 8050:RET NC
LD A,(IVANXY+2):ADD A,$08:LD D,A:LD E,$48
LD A,4:LD B,4:JP INITLAS

IVANXY LD DE,$0048:LD A,D
IVAND ADD A,4:LD (IVANXY+2),A:LD D,A:JR Z,SWAPI
CP $40:RET NZ
SWAPI LD A,(IVAND+1):NEG :LD (IVAND+1),A:RET

KILLIVAN XOR A:LD (NOScroll+1),A:LD (PRTIVAN+1),A
LD (ISBIGON),A:PUSH BC:PUSH IX
LD DE,(IVANXY+1):PUSH DE:CALL INITEXPNO:POP DE
LD A,D:ADD A,$20:LD D,A:CALL INITEXPNO:POP IX:POP BC
LD A,1:LD (MAPX),A:RET

LEGIN LD A,0:LD (LECN0+1),A:XOR $20:LD (LEGIN+1),A:RET

PRTSPARKS LD IX,LECXYS:LD B,6
XOR A:LD (NOLEC+1),A
PRTSPARKBLP PUSH BC

LD A,(IX+02):OR (IX+03):JR Z,BOTHOFF

LD E,(IX+00):LD D,(IX+01):CALL PRTLECCY
NOLEC LD A,0:INC A:LD (NOLEC+1),A

```

```

LD A,(IX+02):OR A:JR Z,TOPOFF
LD E,(IX+00):LD A,(IX+01):SUB $18:LD D,A:JR NC,TD1
LD D,0:PUSH DE:LD HL,POLESPR2:CALL BAXITA:POP DE
LD BC,$1008:JR TAPOFF
TDT1 PUSH DE:LD HL,POLESPR:CALL BAXITA:POP DE
LD BC,$1808
TAPOFF CALL ISBULINBOX
TOPOFF LD A,(IX+03):OR A:JR Z,BOTOFF
LD E,(IX+00):LD A,(IX+01):ADD A,$40:LD D,A
PUSH DE:LD HL,POLESPR:LD BC,$010C:CALL BAXITA:POP DE
LD BC,$1808:INC IX:CALL ISBULINBOX:DEC IX
BOTOFF

BOTHOFF POP BC:LD DE,4:ADD IX,DE:DJNZ PRTSPARKBLP
LD A,(LECCOLOUR+1):XOR Z:LD (LECCOLOUR+1),A
SDL LD A,$00:XOR $20:LD (SDL+1),A:LD (LECNO+1),A:RET

INITLECCY LD IX,LECCYS:LD DE,4:LD B,6
GETLECCY LD A,(IX+02):OR (IX+03):JR Z,GOTLECCY
ADD IX,DE:DJNZ GETLECCY:RET
GOTLECCY LD (IX+00),$10:LD (IX+01),$18
LD (IX+02),$10:LD (IX+03),$10:RET

SMODLECCY LD IX,LECCYS:LD DE,4:LD B,6
SMODLECCY1 LD A,(IX+02):OR (IX+03):JR Z,SMNL
LD A,(IX+00):ADD A,L:LD (IX+00),A:CP $E8:JR C,SMNL
LD (IX+02),0:LD (IX+03),0
SMNL ADD IX,DE:DJNZ SMODLECCY1
RET

PRTLECCY LD A,E:OR A:RET Z
LECNO LD A,0:XOR $20:LD (LECNO+1),A:LD HL,ELECTRICITYSPR
CALL ADDHLA
PUSH HL:PUSH DE:LD BC,$0110:CALL BAXIT:POP DE:POP HL
PUSH DE:LD A,D:ADD A,$20:LD D,A:LD BC,$0110
CALL BAXITFLIP:POP DE
PUSH DE:LD BC,$4008:CALL ISHEROINBOX:POP DE
CALL BATAD:LD DE,32:LD B,8
LECCOLOUR LD (HL),7:ADD HL,DE:DJNZ LECCOLOUR:JP RAND

ELECTRICITYSPR
DBH 3E3E7C78F0E0D0E070381C0E07030706
DBH 0E1C381C3870E0C060D060C06030180C
DBH 7C3C1C0E070E1C381C0E070E1834180C
DBH 060B0303170F0E1C1E0F030F172E3C78

IVANSR
DBH 8138FF00813C0042FF00004600994600
DBH 0099006D00B900B6009A004500590082
DBH 00AA0080005B001D01B40368007C004D
DBH 004E007C03E807D00039802780270083
DBH 07D00FA000B8C013E00800FE1F401F40
DBH 00FFE009F00400EE3F803F800010F004
DBH F802003C3F803F80005AF802F00400BE
DBH 1F401F40009BF005E00900C71F400FA0
DBH 00E7E00BC01300D30FA0075000A9C011
DBH C017104407D0075038828026802D7C01
DBH 036801447C010045009E3882007A002A
DBH 7C0100AD0042FE001840378FF00813C

POLESPR DB 1,3*8
DBH 003E5E3E5E01802D002C002C812C81AD
DBH 802D803E5E3E5E00
DBH 444444
POLESPR2 DB 1,2*8
DBH 002C002C812C81AD802D803E5E3E5E00
DBH 4444

```

```

KILLHELI XOR A:LD (PRTHELI+1),A:LD (NOScroll+1),A:LD (ISBIGON),A
LD DE,(IVANXY+1):PUSH IX:PUSH BC
PUSH DE:CALL INITEXPNOEND:POP DE:LD A,E:ADD A,$20:LD E,A
PUSH DE:CALL INITEXPNOEND:POP DE:LD A,D:ADD A,$20:LD D,A
PUSH DE:CALL INITEXPNOEND:POP DE:LD A,E:SUB $20:LD E,A
PUSH DE:CALL INITEXPNOEND:POP DE
POP BC:POP IX:RET

INITHELI LD A,1:LD (PRTHELI+1),A:LD (NOScroll+1),A

```

```

LD A,4:LD (HELID+1),A
LD A,12:LD (HELICNT+1),A
LD DE,$08E8:LD (HELIX),DE
LD HL,KILLHELI:LD (KILLBIG+1),HL
LD A,$40:LD (BIGHITS),A
RET

PRTHELI LD A,1:OR A:RET Z

HELIBLP LD IX,HELIDATA:LD HL,H1:LD B,10
PUSH BC:LD DE,(HELIX)
LD A,E:ADD A,(IX+00):LD E,A
LD A,D:ADD A,(IX+01):LD D,A
CALL BAXITA:EX DE,HL
INC IX:INC IX:POP BC:DJNZ HELIBLP

BLADE LD A,0:ADD A,2:LD (BLADE+1),A:CP 10:JR C,NOBLA:XOR A
NOBLA LD (BLADE+1),A:CALL ADDHLA
LD A,(HL):INC HL:LD H,(HL):LD L,A:LD DE,(HELIX)
LD A,E:ADD A,(HL):LD E,A:INC HL:CALL BAXITA

HELICNT LD A,11:SUB 1:LD (HELICNT+1),A:JR NC,NOFIHELI
LD A,11:LD (HELICNT+1),A

CADDY LD DE,(HELIX):LD A,E:ADD A,$20
ADD A,$00:LD E,A
LD A,(CADDY+1):XOR $28:LD (CADDY+1),A
LD A,D:ADD A,$30:AND $F8:LD D,A
LD A,4:LD B,4:CALL INITLAS

NOFIHELI LD HL,(HELIX):LD A,H:LD H,$4F:LD (BIGX1),HL
ADD A,$10:LD H,$37:LD (BIGY1),HL
LD A,1:LD (ISBIGON),A

HELIX DB 17
DW $0800
LD A,E:ADD A,4:CP $38:JR Z,OVEE
LD (HELIX),A:RET

OVEE LD A,D
HELID ADD A,4:LD D,A:LD (HELIX),DE
CP $08:JR Z,SWZ:CP $34:JR NZ,NSWZ

SWZ LD A,(HELID+1):NEG :LD (HELID+1),A
NSWZ

RET

```

;*****

```

HELIDATA DW $0008
          DW $0830
          DW $1020
          DW $1808
          DW $2000
          DW $2808
          DW $3018
          DW $3810
          DW $3838
          DW $4008

H1 DB 1,3*8
   DBH 7EC3998D8D9D8D9D8D9D8D9D8D9D8D9D
   DBH 8D9D8D9D8D9D8D9D
   DBH 444444

H2 DB 2,1*8
   DBH 2568B44B97BA0280600C028097BAB44B
   DBH 0444

H3 DB 5,1*8
   DBH 0000256800F01020F800030423D30C32
   DBH D4215A0408BD23D15DBED2A15E1170BF
   DBH 63D17F0000000080
   DBH 0646044446

H4 DB 9,1*8
   DBH 8CFFFC3FFFFFFFFFEB008000000786007
   DBH 008E43FAA86007FFFFFFFF8C800000706
   DBH C054E559BDC000C00607002ECCC40280
   DBH 730480FDCFB6AAD801800C1180028484
   DBH 05C0090C00FB63AA

```

```

DBH 440C0C444444444444
H5    DB 10,1*8
      DBH 7FAA7FF3001800E00186020160041800
      DBH F67F00C097FFFFE60030007001020203
      DBH 38003000ECBFFFB780003FEC00600018
      DBH 030301021C00E0FFDFFF0080C02DCDF
      DBH FFF0000E0601190606003800DED3997F
      DBH 44440404040444444444
H6    DB 9,1*8
      DBH 8288CF001C0007FFF9F1FF7F000E802F
      DBH 02452000CFC00707FE0003F23FFDF03
      DBH E037C01F003007F00357FA2012D227F5
      DBH AF02F0030C00000303F7FF5FEA3FF202
      DBH 00D5EF03E0C70000
      DBH 44440404040444444444
H7    DB 8,1*8
      DBH 24DFBDFC007E23FE03249F00F842302D
      DBH 2A209908D8C000395D38DF6C68ADA052
      DBH 5420B50424DF006D3900DF241099A0A5
      DBH A930427424DF1403FE63DF24FA3C9FAA
      DBH 440E4E0446460E4E
H8    DB 2,1*8
      DBH 0002BC376F7E7A6F6F7E2A054A040020
      DBH 0505
H9    DB 2,1*8
      DBH 24DFDF246C800CDA002653D58AA10180
      DBH 4646
H10   DB 10,1*8
      DBH 7FDCED7FFE1FFFFFFFFFE03000003003
      DBH 00FD1FC0955FFD15392555555399DAA
      DBH AAAA2A9D0AFA8FAA954000151D255555
      DBH 551DB9AAAAAA22B90A00A0AAC0000000
      DBH 033000000003FEFFFFFFFFF1FFEFFFFFFFFF
      DBH 06464606460606060646
HTAB  DW H11,H12,H13,H14,H15
H11   DB $18,8,1*8
      DBH 0000001FF0000000FCFF3F0E60FCFF3F
      DBH 40000285E1400002FDFBFBEDB5FDFBFB
      DBH 9FFF8185E181FFF906007E0E607E0040
      DBH 3FFF80200801FFF80000000C60000000
      DBH 4646460444464646
H12   DB $20,6,1*8
      DBH 00001FF00000FC3F0C20FF3F400082E2
      DBH 4002FD5FEA4AFE8E9C0042E247F90238
      DBH 0480FF403F80200807FC00000C600000
      DBH 464604444646
H13   DB $30,3,1*8
      DBH 3DF000FC0942B57402FD749181747902
      DBH 05423C08FC000C60
      DBH 464446
H14   DB $28,3,1*8
      DBH 001F7C82203F405D59119DBE9C9D0181
      DBH 40403E207E0C6000
      DBH 464446
H15   DB $20,6,1*8
      DBH 00001FF00000FC3F0C20F83F40044BC2
      DBH 4002E19EDA8BF2BF9FC28BC28071027F
      DBH 0C403C403FC0200801FC00000C600000
      DBH 464604444646

```

L5TANKTURRET1

```

DBH FF00C00083008300017C007C803FFF00
DBH FF0080210083008600120079802EFF00
DBH FF00004E00E4008A000A0006005CFF00
DBH FF0000580066002A00CA000D000C000
DBH 803F0098003900E200E2000300CB005F

```

DBH 005F009900C701B4011400DF000B0055
DBH 004A0018006E0032005200BC000B0050
DBH 0040001800580022000A0020008803F
DBH C000001800000052002200FE0058FF00
DBH FF00005800FF0104010C0083005AFF00
DBH FF000058009B0072000A00AB0042FF00
DBH FF00007C009B0076090000008000FF00

LSTANKTURRET2

DBH FF00810083008300017C007C007EFF00
DBH FF00004300830086001200790059FF00
DBH FF00005C00E4008A000A0006004CFF00
DBH FF00004E0026002A00CA000D0010C000
DBH 803F00D6003900E200E2004300E2006F
DBH 004700F6006701B40194007700420045
DBH 00460086001B00320052006F00020044
DBH 0068000600160022000A000800C2803F
DBH C000000600000052002200FE0056FF00
DBH FF00005600FF0104010C00830056FF00
DBH FF000056009B0072000A00AB0060FF00
DBH FF00803E009B007609000000C000FF00

LSTANKTURRET3

DBH FF00010083008300017C007C00FEFE00
DBH FE000083008300860012007900B9FE00
DBH FE00009E0024008A000A008600A7FE00
DBH FE00009900C6002A00CA000D0006E000
DBH C01F00E200D900E200E2004300F28033
DBH 802100F800C301F401D4005B00508021
DBH 802100A000DD00B20092004700008021
DBH 8032000000D30022000A004800F0C01F
DBH E000000000000052002200FE0082FE00
DBH FE00008200FF0104010C008300B2FE00
DBH FE00008E009B0072000A00AB00E0FE00
DBH FF00003E009B007609000000C000FF00

LSTANKATRS1

DBH 00444545
DBH 44044545
DBH 00040445

DBH 45454400
DBH 45450444
DBH 45040400

;*****

BADDYCLIMB51

DBH FF00FF00FF00FF00FF00F900FF00FF00
DBH FF00FF00C0007F003F008006F100FF00
DBH FF00C00000351F803F000029801FFF00
DBH FF00002000901F803F0000410040FE00
DBH FC00004000481F803F0000410040FC00
DBH F8000040007A7F003F0000C50021F000
DBH E00700BF00327F003F0000B900E3C008
DBH 8013007F00F93F003F0000F100FF0027
DBH 0027007F00827F00FF0000C4007F0023
DBH 801000EE01E8FF00FF000310001F002C
DBH 0022007F03D0FF00FF0007200080801D

BADDYCLIMB52

DBH FF00FF00FF00FF00FF00FF00F100FF00
DBH FF00C000FF00FF00FF007F00803EFF00
DBH F30000413300FF00FF0000800080C000
DBH 800C0080008C7F003F00008B00800034
DBH 0050008000821F803F00003900418026
DBH 0048003E00441F803F0000B200A30013
DBH 0027007F00F93F003F0000F900FF0027
DBH 0023007F00B13F007F0000C2007F8010
DBH C00C00EE00ECFF00FF000110001FE002
DBH F001007F03D0FF00FF0003000000FC00

BADDYCLIMB53

DBH FF00FF00FF00FF00FF00FF00F00E700
DBH 8000FF00FF00FF00FF00FF0071000018
DBH 006B0000FF00FF00FF007F00007C8025
DBH 004200823F00FF00FF001F0000018021
DBH 004500010F00FF00FF000F0000010021
DBH 801700010700FF00FF00030000820028
DBH 8013007E0178FF00FF00008400A20027
DBH 0027007F00B27F003F0000F900FF0023
DBH 8010007F00F93F003F0000B1007FC00C
DBH E00200EE00C27F003F00000D001FF002
DBH F801007F00D13F007F00000E0080FC00

BADDYCLIMB54

DBH FF00FF00FF00FF00FF00FF00F100FF00
DBH FF00C000FF00FF00FF007F00803EFF00
DBH F10000412300FF00FF000180080E000
DBH C00E0080009CFF007F0000A200808011
DBH 0021008000A13F003F00005900410026
DBH 8008003E00047F007F0000B200A38013
DBH 0027007F00F93F003F0000F900FF0027
DBH 0023007F00B13F007F0000C2007F8010
DBH C00C00EE00ECFF00FF000110001FE002
DBH F001007F03A0FF00FF000F00080FC00

LEVELSEND

LSCHRS

DBH 47407F00552A5500E202FE0055AA5500
DBH FFFFFFFFFFFFFFFF8181FF0055AA5500
DBH F9FCFCFEFFFFFFFF7FBFB5F2F974BA1
DBH 69696F6072727279797C7C7E7F7F7F7F
DBH FFFFFFFFFFFFFFFF00FFFF000055AA55
DBH 00BEC2EAF2FAFCFEFE0ECE0ECE0ECE0
DBH 00FFFFFFFFFFFFFFF003F5F6F773B150A
DBH 050000201028142A7FBF5FAF773B1D0A
DBH 0000000000000000FFFF0055AA00FF
DBH FFFFFFFFFFFFFFFF6799C6E1F0F8FEFF
DBH 3F3F3F4F330C030080C0E0F08FCFEFC
DBH 5F5F5F5F5F5F5F5F3F3F3F3F3F3F3F
DBH 40704C535C5F5F5F7F7F7F7F7F7F7F
DBH FFFFFFFFFFFFFFFF405C40005500FF00
DBH FFFFFFFF005500FF00A55A55A55A5540
DBH 00FAAFAAFAFAFAFAFAFAFAFAFAFAFE
DBH 803F5A2F5E2D5E2D007F405F50505050
DBH 00FE02FA0A0A0A0A00000000AA5500FF
DBH 00000E2E4E2E4E2E784B299A1B9B1B9
DBH 5325140905020100B1B9B1B95121928C
DBH 375D7B7E7C7C797908152F5FBF957F00
DBH 7A7272606F69696955AA55007F404744
DBH 7F7F7F7F7F7F7F7F6F6F6F6F6F6F6F
DBH 7FBF5FAF57AB55AAD5EAF5EAF5FAFDFE
DBH 76B656A656AA54AA006C6D2524012400
DBH 0000007F0000000000FFFF0055AA00FF
DBH 80808080808080804E2E4E2E4E2E4E2E
DBH 5050505050505050A0A0A0A0A0A0A0A0
DBH ECE0ECE0ECE0ECE05E2D5E2D5E2D5E2D
DBH 5E2D5F2F552A1580AA55FFFF55AA5500
DBH B6FEB6FEB6FEB6FEB6F6F6F6F6F6F6F
DBH 0055FFFFF55FF0055AA5500FE02E222
DBH 55AA5500FF81818155AA55007F404744
DBH 0055FFFEFC54F9016098E4FAFA1AE29E
DBH 0101010101C1310D505050505F407F00
DBH 0A0A0A0AFA02FE00001F101512101F00
DBH 00FE025A202FE008080808C83808080
DBH F8CB858485CAF4F11FD3AD21A1532F8F
DBH FF837D010183FFF00AAFFFF0000AA00
DBH 006C6C6C6C6C00809C80FF00FF0000
DBH 007E4242427FE0C08D264320412141
DBH 00FFFF7F00FC9C2C0F178BC500FE82B2
DBH F2F2F2F202F30000F2E5CA9412141214
DBH 007FD5F5FBFFFBFF01FE55FFBFBFBFC
DBH FFFF7F3F3F5FAF003E2A3E2A3E2A00
DBH 2141204327402A00C08D264320412141
DBH 0C9CFC00FF6D606E8A92FE00FEC015C1
DBH FB172F1F3F7FFFFF121412141214121
DBH BFFBFFBFFBFFD57FECF9D9F2B3E567CA
DBH 0000F823111108080CAD16A6D3CBE5E9
DBH EF57F7EBFBC50D42A641A3520F3FFFFE
DBH FF7F7FBFBF5FDF2F152A152A152A152A
DBH 54AA54AA54AA54AA00FEFE0054A800FC
DBH FCFCFCFCFCFCFC00EEEE0000558855
DBH 00EAF5FAFDFFFFF84C4E2E1F1F0F8
DBH 4402013A1D1C8E8EF8FCFCFEFEFFFFF
DBH 44403D04050402E16F17378B1B957DFA
DBH 571F579F579A4F00FEFAFEFAFEAAFC01
DBH FF0000000000FFFF414D414D414D414D
DBH 000000030C33CE350C32CE36EA56AA56
DBH 3048B4B4B4B448306D2D0D0DCD310D03
DBH B1B9B1B95121120C2A152A152A152A15

DBH AA56AA56AA56AA562A15ZA172C300000
DBH AC70C0000000000C19EAE9E80CD414D
DBH 203F202020203F02FE0050281000FE
DBH 01010101C1310D030101010100010100
DBH C0300C73886444880000000C0300C03
DBH 00FF81BDBD81FF0070000C030000000
DBH 1E214D99859D8D9D8D9D8D8A844830
DBH FF8080958A908795FE000054AA00F250
DBH 86958690809543FA250A2000254AAFE
DBH 3F7F3F542050210041444A4240603F00
DBH FF00AAA0000FF00FC0692A21A02DA42
DBH 5A425A425A4299C3E0E0E0E0F0F8FFFF
DBH F8F2656A35B2589952AA5200EFA9A9A9
DBH 69696969696969697F7F7F7F7F7F7F7F
DBH A9A9E90949A94909E9E9E9E0F2F2F2F9
DBH 0000000000FEFF001818181818181818
DBH 00000000007FFF0000000000FFFFF000
DBH 008240A050A854AA152A150A05020100
DBH 542A140A040200000000000000030C13
DBH 0000001FE01FFFFF2F5FBFBFBFBF9F8F
DBH 1818DB00E7FFFFF00FF00FFFFF00FFFF
DBH FF00FFFFF00000000000000000000000
DBH 47404443A3D0EFFF0FA020EC8A808F802
DBH 068646A646A6462686C6E0FFFFF0000
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DBH 0000000000C030C8F4FADFDFDFDF9F1
DBH 8390949095915521FFFFF1F0040544454
DBH 110C03000000000000445404E01F00000
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DBH A995A91500FF000020232F1F3F7FFF00
DBH FFFFFFFF0000871B0B87FFF0000
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DBH 54A454A454A400FFFFF0000000000A4
DBH FFFFFFFF000015A954A454A45400FF00
DBH 95A995A800FF0000FFFFF800022A222A
DBH C1090989A989AA841A1A181BD8181818
DBH 8830C0000000000003070F1F1F100F00
DBH FCF9F2E48830C000958A85A291A894AA
DBH 00FF80BF9F8F4748158A45A2D1E8F402
DBH 404C414D424E444C494A55522128544A
DBH 000080E0781E060630CC330C03000000
DBH 000000C030CC338DC0300C030000000
DBH 010101010101014E2E4E2E4E2E8EC0
DBH FFFFFFFF00002A252A252A2500FF00
DBH 188B9BC7FFFFF0000000000000E0FF
DBH 5D5DADD1EFF0FEFF7060706070603090
DBH 54AA54AA54AA5400F572F572F572F500
DBH 0D940D940D8057000D940D940D805700
DBH FAF6EDDB37EF1FFF00C3CBCBE3FFFFF
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DBH 706070607060706000FF000000AA54AA
DBH 00FF000000C30D94F572F572F572F572
DBH 0D940D940D940D940D940D940D940D94
DBH 00FF000000C30D94D212E2021AF2FAF2
DBH FAF2FAF2FAF2FAF27F60504C53D5D5D
DBH C020100CFFC3BD6200000000FF00FFFF
DBH C39B8B9B8B9B8B9B8B00AECEE0F0F9CFE
DBH 00FF00FF0000000000000000FF00FF00
DBH 00FF00000000000000FF00000073F572
DBH 3F4F733C4F230802FFFFF3FCFF33C
DBH 8F220802C0300C30

LSATRS

DBH 47470747070747474746470747470547
DBH 4745454747474747474E4E4E4E074545
DBH 05064607074607464707470747474747
DBH 4745424D470706460705050545450707
DBH 070707464706460646470707074E4746
DBH 4F44464506054646454F040446464505
DBH 4646060645464505054D454647450645
DBH 05454646454547474647464747474745
DBH 47474747464746474646454545454645
DBH 45454545460747074707474647470505
DBH 05474747474747474707464747474747
DBH 07470707474707464747460707474707
DBH 07470746074646074607450746474747
DBH 47074707474547070505074747474F07
DBH 0705070507474747474F474707474646
DBH 0505474747

LSBLOX

DBH 02024D4D0202020204054D4D07052C2D

DBH 080809090C0C08080D0C0E0F1111EC12
DBH 111112EC11111212F2F318F416171617
DBH 131408152C2D2C2D28292A2B2C2D2E2D
DBH 2F30090931323132B0B1B2B3A4A50808
DBH A6A70808B4B5B6B7B8B9BABBBB8B8CBB
DBH B9B8BCBBDBEBFC0C1C2C3C49B9C9B10
DBH 9A9B109B0CD4333D40C333345464748
DBH 0838380B201E39121E1F123C43104944
DBH 2122363702024A4B3A3B4C4C3B3D4C4C
DBH 2510271036374546020247484E4E4E4E
DBH 4F4F50514F4F52534F5412554F4F5657
DBH 4F4F58501C1C2324191A1B1C0B0B3838
DBH 0B023802595A125B5C5D525E125F12D5
DBH 60616263645965666B6B0C0C6B6B0C6C
DBH 125A12125D121212121212126D6E6F70
DBH 67686768126A126A1212090947480909
DBH 745E0909107F10751010767710751075
DBH 7878787825107A101075767F76757B7F
DBH 7B7C7D7E101078780811010CF821083
DBH 101084857B757D757D75767576777B7C
DBH 101080811010CF82767F7B757B7F7D75
DBH 7D7E1010878510107D75107F1075107F
DBH 88108910CF822510101088107A10CF82
DBH 8910101010107810101084827D751075
DBH 8C8D1010107810108A8B8C8D08080808
DBH 102410350C0C33337D75767F7B757D8F
DBH 7D759075101090901010909109090808
DBH 909108921A1A1C1C25262710108E108E
DBH 1C1C101D1B1C0B02129309094F541212
DBH 94717273960006970103020200010202
DBH 9800999738020B023E3E3F409F9E10A0
DBH 434434D043D0494425D07AD01C1C1E1F
DBH 1B1C201E1C1C0B0B1B1C2122AAA6AB08
DBH A5AC0808ADAE08AFA1A2A308A8A90808
DBH 35103510103510351010101036373637
DBH 38380B0BC5C68A8B10C7C8C9AA10AA10
DBH 10CA10CBCC78AA86CDCECF9BCF791010
DBH 1010CDCECDCECF79A18FA308A6A60808
DBH B4D2B6D3B8B9BCBB39123A3B123C3B3D
DBH 3E3E413F4229954143443410D6D73333
DBH 10D83333D9DA3333DADB3333DDB33333
DBH DCD03333D0C3333DEDFDEE0E78EE88E
DBH 1010E9EA08ED3369020B0A3808083333
DBH 10359DD10E0F679E1010D0C1B1C2423
DBH 3510D19D1010107521EE3610EE221037
DBH 3610361010371037361045EF1010EFEF
DBH 1037EF461B1C21EE1C1CEEE1B1CEE22
DBH 1B1C232310109D9DF0E11068F1E2E3E4
DBH E2E2E4E5E6E6E5E1010AE1010EFEB

L5MAPX

DBH 5B5B468E1B1C47488E9799498E72B3C0
DBH 31C031C031C031C031C031858483BD8E
DBH BEBEBEBEBF8586858483758586858483
DBH 75858483758586858483757432713271
DBH 32713271327132713271327132718E8E
DBH 8E8E
DBH 4A4B4C8E1B1C5B4D4E99984F508E8C8E
DBH 8D8E8D8E8D8E8D8E8D8E8D2A9E9FB88E
DBH 8E8E8E8EB97D8F2A9E9FB6B78F909E9F
DBH 7D2A9E9F7D2A8F909E9F7D0E7EA0A17E
DBH A0A17EA0A17EA0A17EA0A17EA0A18E8E
DBH 8E8E
DBH 5152538E1B1C5B4D5498975559A28C8E
DBH 8D8E8D8E8D8E8D8E8D8E8D202020B88E
DBH 8E8E8E8EB97D1F202020B8B91F202122
DBH B6B721227D201F2021227D797A7B7C7A
DBH 7B7C7A7B7C7A7B7C7A7B7C7A7B7C8E8E
DBH 8E8E
DBH 5657588E1B1C94958E9799498E238C8E
DBH 8D8E8D8E8D8E8D8E8D8E8D242122B88E
DBH 8E8E8E8EB92122252122B8B924252627
DBH B8B92627252424252627250300000200
DBH 00020000020000020000020000028E8E
DBH 8E8E
DBH 5A5B5C8E1B1C92934E99985D99288C8E
DBH 8D8E8D8E8D8E8D8E8D8E8D299E9FB88E
DBH 8E8E8E8EB99E9F2A9E9FB8B9292A2B2B
DBH B8B92B2B2A29292A2B2B2A0D2C2D2E2F
DBH 30772C2D2E2F30772C2D2E2F30778E8E
DBH 8E8E

```

DBH 47475E8A13148B878889975F98B2B4C1
DBH B0C1B0C1B0C1B0C1B0C1B0AE0101BABB
DBH B8B8B8B8B8C0101330101BABC01332A2A
DBH BABC3301010134332401340D35363738
DBH 393E35363738393E35363738393E8E8E
DBH 8E8E
DBH 4545601215161718191A964997B1AFAF
DBH AFAFAFAFAFAFAFAFAFAFAFAFAFAD3A3A3A
DBH 3A3A3A3A3A3A3A3A3A3A3A3A3A3A3A
DBH 3A3A3A3A3A3A3A3A3A3A3B0F3C3D3E3F
DBH 783E3C3D3E3F783E3C3D3E3F783E8E8E
DBH 8E8E
DBH 5B5B5C4691618E4D8E1B1C4F62403E3E
DBH 3E3E3E3E3E3E3E3E3E3E4104040404
DBH 040404040404040404040404040404
DBH 0404040404040404040404042434376
DBH 44424242427644434243437644438E8E
DBH 8E8E

```

L5MAPY

```

DBH 4545464C644D8E488E979968674A4B4C
DBH 46664D8E4D4E99988D675152534C6548
DBH 8E4D8E8E978D0A5657588E664D8E488E
DBH 8E8E8D0B5A5B5C8E654D8E4D4E9998E8D
DBH 0B5B5B460605050505050505050C4A4B
DBH 4C7F07080909090909090951635C8E1B
DBH 1CB5618E8E8E8E8E45455C8E1B1C4748
DBH 8E9799498E4545468E1B1C47488E8E8E
DBH 4F504A4B4C8E1B1C5B4D4E9998495951
DBH 52538E1B1C5B4D549897558E5657588E
DBH 1B1C47488E9799498E5A5B5C8E1B1C5B
DBH 4D54988E4F995B5B468E1B1C47488E97
DBH 99498E4A4B4C8E1B1C5B4D4E99984F50
DBH 51635C8E1B1C5B4D5498975559454546
DBH 8E1B1C47488E9799498E4A4B4C8E1B1C
DBH 5B4D4E99984F505152538E1B1C5B4D54
DBH 989755595657588E1B1C47488E979949
DBH 8E5A5B5C8E1B1C5B4D54988E4F995B5B
DBH 468E1B1C47488E9799498E4A4B4C8E1B
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DBH 54989755595657588E1B1C94958E9799
DBH 498E5A5B5C8E1B1C92934E99985D9947
DBH 475E8A13148B878889975F9845456012
DBH 15161718191A9649975B5B5C4691618E
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DBH 5152534C65488E4D8E1B1C5F97565758
DBH 46664D8E4D8E1B1C49625A5B534C654D
DBH 8E488E1B1C5D594A4B4C5C664D8E488E
DBH 1B1C5F985152538E65488E4D8E1B1C49
DBH 975657585C664D8E4D8E1B1C4F625A5B
DBH 538E654D8E488E1B1CA259564B4C4666
DBH 4D8E488E1B1C23985152534C65488E4D
DBH 8E1B1C5D9756575846664D8E4D8E1B1C
DBH 5F625A45534C654D8E4D8E1B1CA25956
DBH 4B4C46664D8E488E1B1C5D985152534C
DBH 65488E4D8E1B1C5F9756575846664D8E
DBH 4D8E1B1C49625A5B534C654D8E488E1B
DBH 1C5D594A4B4C5C664D8E488E1B1C5F98
DBH 5152538E65488E4D8E1B1C499756574C
DBH 5C664D8E4D8E1B1C4F626A4B8E8E654D
DBH 8E4D8E1B1CA2596B6C6D6E8E658E4D8E
DBH 1B1C23988E9A6F6F709B88898E1B1C49
DBH 9753129C9D1718191A8E1B1C4F624C8E
DBH 8E8E8E8E73118E1B1C8059538E8E8E8E
DBH 8E8E8E8E1B1C81984C8E8E8E8E8E8E
DBH 8E1B1C8297538E8E8E8E8E8E8E1B1C
DBH 4F994C8E8E8E8E8E8E8E1B1C805953
DBH ACC7C7C7C7C68E8E1B1C81984CAAC2C3
DBH C4C5AB118E1B1C829769A3A4A5A6A7A8
DBH A9691E1D6969

```

L5END

ENDF

```

;
; *****
; ** END OF FILE **
; *****
;
; *****
; ** LEVEL 6 STUFF ( DATA , SPRITES AND PROGRAMMING ) **
; *****

```

IFLB STARTLEV=6
ORG LEVELDATA

LEVEL6DATA

```

DB $20,$20+FLOROF ; HERO X,Y
DB $00 ; MAPX
DB $00 ; MAPY
DB 0 ; 0=SCROLL L/R - 1=SCROLL U/D
DB $5C,$50 ; WEAPON ROOM X,Y INIT
DW $38D8 ; DOOR XY
DB $5C,$50 ; RIGHTMAX,DOWNMAX
DB $24,$50 ; SETUD,SETLR
DW FLOOR6 ; FLOOR BLOCKS
DW WALL6 ; WALL BLOCKS
DB $FF,$FF ; LADDER BLOCKS - $FF,$FF - $FF,$FF
DB $FF ; CRAWL ON BLOCK
DB $3C,$FF ; SLIDE UP
DB $FF,$FF ; SLIDE DOWN
DW LEV6BADX,LEV6BADX2 ; LEVEL BADDY INITS X,EXTRA X
DW LEV6BADDY ; LEVEL BADDY INITS Y
DW L6CHRS ; CHRS
DW L6ATRS ; ATRS
DW L6BLOX ; BLOX
DW L6MAPX ; MAPX
DW L6MAPY ; MAPY
DB 72 ; MAPXMAXSIZE

```

```

CALL NOCOGS:CALL ARMY:CALL PRTTV:RET
JP RESETLEV6BAD
JP RETURN

```

```

WAPTABLE6 DB $01,3,$09,3,$04,3,$07,4,$06,4,$05,2
JP RETURN ; KILL BIG
JP INITLEV6COGS ; INIT BIG 1
JP INITARMY ; INIT BIG 2
JP INITTV ; INIT BIG 3
JP RETURN ; INIT BIG 4

```

```

RESETLEV6BAD XOR A:LD (ISBIGON),A:LD (ARMY+1),A:LD (NOCOGS+1),A
LD (PRTTV+1),A
LD A,8+1+2:LD (FLOOR6),A
LD HL,L6TANKATRS1:LD (TANKATRS+1),HL
LD HL,L6TANKTURRET1:LD (TUR1),HL
LD HL,L6TANKTURRET2:LD (TUR2),HL
LD HL,L6TANKTURRET3:LD (TUR3),HL

LD HL,BAR6:LD DE,BCR1:LD BC,3*5:LDIR

RET

```

```

BAR6 DW BADDYCRAWL61:DB 12,16,12; BAD CRAWL
DW BADDYCRAWL62:DB 12,16,12; BAD CRAWL
DW BADDYCRAWL63:DB 12,16,12; BAD CRAWL

```

```

FLOOR6 DB 4+4+1+2
DBH 0A0B0C0E
DBH 0405023C
CHANGEFLOOR1 DBH 27
DBH 0001

```

```

WALL6 DB 1
DBH FF

```

```

LEV6BADX DB $02,$01,$24,KEY ; BADDY
DB $04,$05,$D8,$60 ; TANK TOP
DB $08,$01,$24,KEY ; BADDY
DB $20,$FB,$02 ; SCROLL
DB $FF,$FF ; END OF DATA
LEV6BADDY DB $02,$FF,$01 ; ONE COG
DB $10,$FE ; ARMY
DB $22,$FF,$02 ; ONE COG
DB $30,$FE ; ARMY
DB $42,$FF,$03 ; ONE COG

```

```

DB $50,$FD ; T.V. SEQUENCE
DB $FF,$FF ; END OF DATA
LEV6BADX2 DB $40,$01,$64,KEY ; BADDY
DB $48,$01,$64,KEY ; BADDY
DB $50,$01,$64,KEY ; BADDY
DB $58,$05,$08,$60 ; TANK TOP
DB $FF,$FF ; END OF DATA

;*****

CAGLEN EQU 5
CAG1 DS 3*CAGLEN
CAG1INIT DB $E0,-8,$20,$00,$00
DB $E0,-8,$20,$08,$03
DB $E0,-8,$20,$10,$06

INITLEV6COGS CALL GETDATA:LD (NOCOGS+1),A:LD (NOSCROLL+1),A
LD HL,CAG1INIT:LD DE,CAG1:LD BC,3*CAGLEN:LDIR
CP 3:RET Z:LD C,A:XOR A
LD (CAG1+Z+CAGLEN*2),A
LD A,C:CP 2:RET Z:XOR A:LD (CAG1+Z+CAGLEN),A:RET

NOCOGS LD A,0:OR A:RET Z:LD IX,CAG1:LD B,3
CAGBLP PUSH BC:CALL PRTCAG:POP BC:LD DE,CAGLEN:ADD IX,DE
DJNZ CAGBLP:RET

PRTCAG LD A,(IX+03):OR A:JR Z,CAGON:DEC (IX+03):RET
CAGON LD A,(IX+02):OR A:RET Z:LD D,(IX+01):LD A,(IX+00)
ADD A,D:LD E,A:CP $00:JR Z,SWD:CP $E8:JR NZ,NSWD
SWD LD A,D:NEG :LD D,A
NSWD LD (IX+00),E:LD (IX+01),D:INC (IX+04)

LD D,$20:PUSH DE:LD A,(IX+04):AND 1:LD HL,COG6SPR
JR NZ,NOLM:LD HL,COG6SPR2
NOLM LD BC,$0410:CALL MASKCXB:POP DE

PUSH DE:LD A,(IX+04):AND 7:ADD A,A
LD HL,SCOG0FS:CALL ADDHLA
LD A,(HL):ADD A,E:LD E,A:INC HL
LD A,(HL):ADD A,$20:LD D,A
LD A,(POS):LD HL,SCOG1:AND 1:JR Z,NOML:LD HL,SCOG2
NOML LD BC,$0208:CALL MASKCXB:POP DE

LD BC,$1818
PUSH IX:LD IX,BADCOG-2:CALL ISHEROINBOX:POP IX:POP DE

PUSH DE:LD A,E:ADD A,8:LD E,A
LD D,$28:LD HL,COG6ATR:LD BC,$0202:CALL BAXATR:POP DE

PUSH DE:LD D,$28:LD BC,$2020:CALL ISBULORHERO
POP DE:LD A,(IX+02):OR A:RET NZ

PUSH IX:LD D,$20:CALL INITEXPNOEND:POP IX
LD A,(NOCOGS+1):DEC A:LD (NOCOGS+1),A:RET NZ
KILLCOG6 LD (NOSCROLL+1),A
LD A,8+1:LD (FLOOR6),A
LD A,$27:LD (CHANGEFLOOR1),A:RET

BADCOG DB 0

SCOG0FS DW $F808,$00F8
DW $08F8,$1800
DW $1808,$1018
DW $0818,$F810

COG6ATR DBH 4444
DBH 4444

COG6SPR DBH FF00FF00FF00FF00FF003F00E000FF00
DBH FF00C0001F00FF007F000CC0801FFC00
DBH F800001408403F001F8000430014F003
DBH E004009400450F400720004A0054C00C
DBH 80140038003C07200F40000000008012
DBH C009000000001F800F0000C10083E004
DBH 8003000C003107E003900000800100001
DBH 007E0012004801780108008400210050
DBH 00500021008401080178004800120050
DBH 007F0010000803800700031008C0000
DBH 8002008300C13F001F8000000080E004
DBH C00900000040F400720001A0030801A

```

```

DBH 80140048002907200FC0004400A4C00A
DBH E007001400431F803F0008400014F000
DBH F800801F0CC07F00FF001F00C000FF00
DBH FF00E0003F00FF00FF00FF00FF00FF00

COG6SPR2 DBH FF00DF008F00FF00FF0007008F00FF00
DBH FF0006200170FF00FF0000480250FE00
DBH FC00009800947F003F0000A20028F801
DBH E001004500221F000FC000C200A3C000
DBH 80180050000507200370000400200027
DBH 002500C000020390010800E100070048
DBH 00780018001801180330008800100024
DBH 80120020000407400F800084002DC00D
DBH E005002100B41F80074000040020C00D
DBH 8013001100080320011800180018002C
DBH 0030000700E101080390000200C00028
DBH 002B00200005037007C000C80051801C
DBH C000009200440F003F0000A40022E001
DBH F801004400A27F007F00006600C8FC00
DBH FE0000380078FF00FF0001000300FF00
DBH FF00C7008700FF00FF00FF00FF00FF00

SCOG1 DBH F8007F003F00F000E0071F800F40C00A
DBH C00A03400140C00A800A003C0082003C
DBH 00510042009C0050003E012003208005
DBH C00507200720E005F0030FC01F00F800

SCOGZ DBH FF00FF008700C300810003000178003C
DBH 005200A400C400510028010803908014
DBH 801503D0039080140028010800C40051
DBH 005200A40178003C810003008700C300

```

;*****

```

INITARMY LD A,1:LD (ARMY+1),A:LD (NOSROLL+1),A
LD A,255:LD (ARMYCOUNT+1),A
LD HL,ARMYDATA:LD (ARMYPOINTER+1),HL
RET

ARMY LD A,0:OR A:RET Z
ARMYCOUNT LD A,0:INC A:LD (ARMYCOUNT+1),A
ARMYPOINTER LD HL,ARMYDATA:CP (HL):RET NZ:INC HL
LD A,(HL):INC HL:CP FIN:JR Z,KILLARMY
LD DE,(BADDATA+1):PUSH DE:LD (BADDATA+1),HL
CALL GOINITBADA:LD HL,(BADDATA+1):LD (ARMYPOINTER+1),HL
POP HL:LD (BADDATA+1),HL:RET

KILLARMY XOR A:LD (ARMY+1),A:LD (NOSROLL+1),A
LD A,8+1+2:LD (FLOOR6),A
LD A,$FF:LD (CHANGEFLOOR1),A
RET

ARMYDATA DB $08,$01,$64,KEY ; BADDY
DB $10,$03,$64,0 ; BADDY
DB $18,$01,$64,0 ; BADDY
DB $1C,$0A,$00,$64,$04 ; CRAWLER
DB $20,$03,$64,KEY ; BADDY
DB $28,$01,$64,0 ; BADDY
DB $2C,$0A,$E8,$64,$FC ; CRAWLER
DB $30,$03,$64,0 ; BADDY
DB $38,$01,$64,KEY ; BADDY
DB $3C,$0A,$E8,$64,$FC ; CRAWLER
DB $40,$03,$64,0 ; BADDY
DB $44,$0A,$00,$64,$04 ; CRAWLER
DB $48,$01,$64,0 ; BADDY
DB $70,FIN

```

;*****

```

INITTV LD A,8+1+2:LD (FLOOR6),A
LD A,2:CALL PLAYMUSIC

WALKTOPLACE LD A,(HEROX+2):CP $64:JR Z,SMX:ADD A,4:AND $FC
LD (HEROX+2),A:SUB $10:LD (GUNX+2),A:JR SKPSMX
SMX LD A,(HEROX+1):LD E,A:CP $30:JR Z,SWITCHTVON
LD A,0:RLA :ADD A,A:DEC A
ADD A,A:ADD A,A:ADD A,A
ADD A,E:LD (HEROX+1),A:LD (GUNX+1),A
LD A,E:CP $30:LD A,0:RLA :ADD A,A:ADD A,A:LD C,A
LD A,(HEROP+1):DEC A:AND 3:OR C:XOR 20:LD (HEROP+1),A

```

```

SKPSMX      LD  A,6:SUB C:LD  (GUNDIR+1),A
            CALL DOALLBACKBITS
            CALL BEEPER
            CALL BEEPER
            JR  WALKTOPLACE

;FIN        EQU  $FF
TVSTATIC    EQU  $FE
TVSCROLL    EQU  $FD
FACEOPEN    EQU  $01
HELPER      EQU  $02
GRANDPA     EQU  $03
FACECLOSED  EQU  $04

KILLTV      LD  A,0:LD  (PRTTV+1),A:LD  (NOSCROLL+1),A
            LD  A,$47:LD  (ATTR),A
            RET

SWITCHTVON  LD  A,1:LD  (GUNDIR+1),A:LD  A,24:LD  (HEROP+1),A
            CALL SPRINT:DB  PRSIZE,0,PREOF

TVLOOP      LD  HL,TVSEQ
            LD  A,(HL):INC HL:CP  FIN:JR  Z,KILLTV
            CP  TVSTATIC:JR  Z,STATIC:CP  TVSCROLL:JP  Z,SCROLLTV
            LD  (PRTTV+1),A:PUSH HL:CALL DOALLBACKBITS:POP  HL
            LD  B,(HL):INC HL:PUSH HL:CALL BFLY:POP  HL
            LD  A,$46:LD  (ATTR),A
            LD  E,(HL):INC HL:LD  D,(HL):INC HL
            LD  C,(HL):INC HL:LD  B,(HL):INC HL
            PUSH HL:CALL PRTBOX:POP  HL:CALL PRINT
            LD  A,$47:LD  (ATTR),A:LD  B,(HL):INC HL
            PUSH HL:CALL BFLY:POP  HL:JR  TVLOOP

STATICTV    LD  B,(HL):INC HL:LD  A,$FF:LD  (PRTTV+1),A
STATICTVBLP PUSH HL:PUSH BC:CALL DOALLBACKBITS:POP  BC:POP  HL
            DJNZ STATICTVBLP:JR  TVLOOP

PRTTV       LD  A,0:OR  A:RET  Z:CP  $FF:JR  Z,STATIC
            DEC  A:LD  HL,TVFACES:LD  DE,2+$F0+$1E:CALL MULT
            LD  DE,$2870:JP  BAXITA

STATIC      LD  A,(POS):AND 3:INC A:LD  C,A
            LD  HL,BACKSCR+$050E:LD  DE,32-5:LD  B,$28
            LD  A,(POS):AND 4:RRA  :RRA  :DEC  A

STATBLP     LD  (HL),A:INC L:LD  (HL),A:INC L:LD  (HL),A:INC L
            LD  (HL),A:INC L:LD  (HL),A:INC L:LD  (HL),A:ADD HL,DE
            DEC  C:JP  NZ,COMPZ
            CPL  :LD  C,4

COMPZ       DJNZ STATBLP

CZMPZ       LD  HL,BACKATR+$00AE:LD  DE,32-6:LD  C,5
            LD  B,6
            LD  (HL),$47:INC L:DJNZ CAMPZ:ADD HL,DE
            DEC  C:JR  NZ,CZMPZ:RET

PRTBOX      PUSH DE:PUSH BC:LD  A,B:SUB 2:LD  B,A

BOXSIZEOK1  PUSH BC:INC E:LD  A,C:SUB 2:LD  (BOXSIZEOK1+5),A
            PUSH DE:CALL SPRINT:DB  PRMULTY,10," ",PREOF
            POP  DE:DEC  E:INC D:POP  BC

BOXSIZEOK2  LD  A,C:LD  (BOXSIZEOK2+6),A
            PUSH BC:PUSH DE:CALL SPRINT:DB  PRMULTY,10," ",PREOF
            POP  DE:POP  BC:INC D:DJNZ BOXSIZEOK2

BOXSIZEOK3  INC  E:LD  A,C:SUB 2:LD  (BOXSIZEOK3+4),A
            CALL SPRINT:DB  PRMULTY,10," ",PREOF

MASKCHR     POP  BC:POP  DE:LD  HL,BOXUDGS:CALL MASKCHR
            LD  A,E:ADD A,C:DEC A:LD  E,A:CALL MASKCHR
            LD  A,D:ADD A,B:DEC A:LD  D,A:CALL MASKCHR
            LD  A,E:SUB C:INC A:LD  E,A:CALL MASKCHR
            INC  D:LD  A,C:SRL  A:ADD A,E:LD  E,A
            PUSH DE:CALL CHRAD:PUSH BC:LD  B,8
            LD  A,(DE):AND (HL):INC HL:OR  (HL):INC HL
            LD  (DE),A:INC D:DJNZ MASKCHRBLP
            LD  A,D:RRA  :RRA  :RRA  :DEC A:AND 3:OR  88:LD  D,A
            LD  A,$46:LD  (DE),A:POP  BC:POP  DE:RET

TVSEQ       DB  TVSTATIC,65

```

```

DB FACEOPEN,25
DB 04,00,14,05
DB PRAT,04+3,01,"HA-HA-HA"
DB PRAT,04+3,02,"WE HAVE"
DB PRAT,04+1,03,"YOUR FAMILY.",PREOF,250
DB TVSCROLL
DB HELPER,25
DB 06,00,10,03
DB PRAT,06+2,01,"HELP!!",PREOF,250
DB GRANDPA,25
DB 03,00,17,05
DB PRAT,03+1,01,"MY RESEARCH HAS"
DB PRAT,03+2,02,"PUT MY FAMILY"
DB PRAT,03+5,03,"AT RISK",PREOF,250
DB FACECLOSED,25
DB 03,00,21,05
DB PRAT,03+3,01,"KEEP COMING!!"
DB PRAT,03+1,02,"YOU AND YOUR FAMILY"
DB PRAT,03+5,03,"WILL DIE!!!",PREOF,250
DB TVSTATIC,65
DB FIN

SCROLLTV XOR A:LD (PRTTV+1),A:PUSH HL:CALL DOALLBACKBITS
LD IX,SCRVMAP:LD C,25:LD A,$46:LD (ATTR),A
SCROLLTVCLP PUSH BC:LD DE,SCROLLLINE:LD A,(IX+00):CALL DUMPTVCHR
LD A,(IX+01):CALL DUMPTVCHR:LD A,(IX+02):CALL DUMPTVCHR
LD A,(IX+03):CALL DUMPTVCHR:LD A,(IX+04):CALL DUMPTVCHR
POP BC:PUSH BC:LD B,8
SCROLLTVBLP PUSH BC
LD B,3:CALL BFLY:CALL SCROLLTELE

DBH 060010FE10FE10FE10FE

CALL BACKTOREAL
POP BC:PUSH BC:LD A,C
CP 23:JR NC,NODAD:CP 19:JR C,NODAD
LD DE,$0603:LD BC,$0306:CALL PRTBOX
CALL SPRINT:DB PRAT,04,07,"DAD!",PREOF
JR NOGAD
NODAD CP 11:JR NC,NOGOD:CP 07:JR C,NOGOD
LD DE,$0503:LD BC,$0407:CALL PRTBOX
CALL SPRINT:DB PRAT,04,06,"OH MY",PRAT,04,07,"GOD!!",PREOF
JR NOGAD
NOGOD CALL BEEPER
NOGAD

POP BC:DJNZ SCROLLTVBLP:LD DE,5:ADD IX,DE
POP BC:DEC C:JP NZ,SCROLLTVCLP:LD B,6*8
SCROLLTVOFF PUSH BC:LD B,5:CALL BFLY:CALL SCROLLTELE:POP BC
DJNZ SCROLLTVOFF:POP HL
LD A,$47:LD (ATTR),A:JP TVLOOP

SCROLLTELE LD C,40:LD HL,$40B3
EXX :LD HL,SCROLLLINE:EXX
SCROLLTELECLP EXX :SLA (HL):INC HL:EXX :PUSH HL:LD B,6
SCROLLTELEBLP RL (HL):DEC HL:DJNZ SCROLLTELEBLP
POP HL:CALL PIXDN
DEC C:JR NZ,SCROLLTELECLP:RET

BACKTOREAL LD HL,BACKSCR+$500+3:LD DE,$40A3:LD B,5*8
BACKTOREALBLP PUSH HL:PUSH DE:PUSH BC:LD BC,7:LDIR
POP BC:POP DE:POP HL:EX DE,HL:CALL PIXDN:EX DE,HL
LD A,L:ADD A,32:LD L,A:ADC A,H:SUB L:LD H,A
DJNZ BACKTOREALBLP:RET

DUMPTVCHR LD L,A:LD H,0:ADD HL,HL:ADD HL,HL:ADD HL,HL
LD BC,SCRTVCHR:ADD HL,BC:LD C,H
LDI :LDI :LDI :LDI :LDI :LDI :LDI :LDI :RET

SCROLLLINE EQU BACKSCR

SCRVMAP DBH 05071F071F
TVDAD DBH 00021B1D34
DBH 01031C1E35
TVBAR1 DBH 0406060606
DBH 05071F071F
TVMJM DBH 080A202236
DBH 090B212337
TVBAR2 DBH 0406060606
DBH 05071F071F
TVSIS DBH 0C0D242638

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TVBAR3 DBH 090E252739
DBH 0406060606
DBH 05071F071F
TVBRO DBH 0F11282A3A
DBH 1012292B3B
TVBAR4 DBH 0406060606
DBH 05071F071F
TVGRD DBH 13152C2E3C
DBH 14162D2F3D
TVBAR5 DBH 0406060606
DBH 05071F071F
TVGRN DBH 171830323E
DBH 101931333F
TVBAR6 DBH 0406060606
DBH 05071F071F

SCRTVCHR

DBH FF000000000050A1FF0000000000BF5F
DBH 41860E1C387B3319AF6F77371B1DCD9D
DBH FF0101010101C1C1010202060A122A5A
DBH C1C1C1C1C1C1C1BA7A7A766A522242
DBH FF0000000000AA52FF0000000000BFD
DBH A746A14A991333225FCF2F37D7E80B4B
DBH FF0000000000AA51A146860C88191B09
DBH AF57371B0B8BCDC5FF000000000AA50
DBH FF0000000000BFBFA142891C38723B1B
DBH DF4F173B3D1BB76FF000000000AA43
DBH FF0000000000FF1F840C1B162C292924
DBH 6F37D86B87D7D7ABFF000000000AA42
DBH A2458C1933773639DF9F6F6FB7DBDB3B
DBH 000000000000001C0E1C1C38287331
DBH 3BF76F775B3BBD1524864286448C0488
DBH 53CF4FCFEF5F6F2F820202060A122A5A
DBH 1A9A0B8544A340A0D7D72F77F76F1FBF
DBH 51A152A343A54E845FDFEFFAF773B57
DBH 82068A0D8D43A34033B7BDB3C7E70FD7
DBH 87478043A351A343F70F6F6F5FAF6F6F
DBH 0C078F45804F970DDFDFBF7FBFBF5FBF
DBH 800D8D05854180027FBFBFBF7F7FFFFF
DBH 1213098C068D0A195BDBB77777B7DBDB
DBH 191D0C3E3D1A860E5DBDBD7D7DBB4777
DBH 1B1916160A860682B737D7D7AFCFD7B7
DBH 0A8C0E8F1F1B2580B777F77B7BBD2D03
DBH 00448C0CB3FFFFF0F2F6F6F9FFFFF
DBH 41A150A1D1FAFFFFF4F5F3F5F5FBFFFFF
DBH A150A242A3C0FFFFF5F1F2F2F6F9FFFFF
DBH C7F0FFFFF7FFFFF7FFFFF7FFFFF7FFFFF
DBH 8E00844E8EF1FFFFF770F2F7778FFFFF
DBH 42A24087C3F8FFFAFAF0F776F9FFFFF

TVFACES

DB 6,5*8
DBH 6739EB979CE613602E7506C89181BA5D
DBH 8189E60F7A5EF0672FF82E741FF4FA3F
DBH A815FC5F5FA03C05FFAFA3DC80BB35F
DBH 5F1C05D038FAF47DA003BE2F2FC05D0
DBH 3FF4E85FB003FA170BD415E82BD02014
DBH C6632804130785D1E0C8141FEC22F820
DBH 4002D3EF0022C1EAEF655F858BFEC3F3
DBH FFE1E1BFFD25FF874BFF43FE55C2828A
DBH F643FD4522A341E6E14408FC0D200E10
DBH 09641003469048B90E00C01321B0001D
DBH 7CA442FE3E007C47477C02B96EA2D2C6
DBH 0600F68E96E300BF276151637001C88D
DBH 9D9A20076961D120773B838D95013766
DBH 00E142036407908D44DA00000762C466
DBH 00B0EB4A26738FE34EA4481D7B8C3913
DBH 575756565757
DBH 475756565747
DBH 440646564646
DBH 044E46465746
DBH 044757574746

DB 6,5*8
DBH 27E5DF77D1F4FA69EBAFCB2F27C5DFF7
DBH B4FAFAF8FFAF8B4F5797D6DEF47A7A7A
DBH EDAF8F4F5796475DFC7D7DEEBA28C4F
DBH 5F995059FC7D7DFA6C962B4F5F1D2F34
DBH 7D3D3D5698A92E4F5F1F13C20B3D3D04
DBH F9643E4E5E5D4B76CF3D3D6675B53E4E

DBH 5E7956BB4F1D9DA6B8C393E4E5E7D5F6F
DBH CF109D969F3F3E5E4E7D1FFF4D3D3D9E
DBH 0E9F3E262F1F4EF73D3D7D7E17A62F27
DBH 271EC60EDC7D7A9A1E63AF16131B11FC
DBH 327A746625224D13098991FC64F4F448
DBH F84249090989A70492686806E8C14809
DBH 05846C034C288819E7CF3005051A0FF0
DBH B30848A6F39F430404629FF9CC109059
DBH F99F3B09099B4FF9D31050C6F9CFCD0A
DBH 474646464647
DBH 470647474647
DBH 470647474647
DBH 470647474647
DBH 474D04044D47

DB 6,5*8
DBH 3EBFF6EFD7BE5EEEDFFB7F3C78FF3FFF
DBH FD2F2FFFF9DF7D7972FFEED7FE9757FF
DBH 6EEFFF65E3FF42817FD7F7BF1880FFE7
DBH E3F91D7CSEF7772DFA37E6D6CDE1FFC
DBH 1FAB3B2FFE37DAD7CBDC3EDD1798DB0F
DBH FE57B8E7E3FC3EDF1FE7CF2FE001FCE7
DBH CBFE7EDFB7DFDFCFDFFEDECCEBAEC1E3
DBH DFDEEE2EC8047FE6E1FD2121376E6E0F
DBH C7387AC7CCF47CCF96F67A8EE77DFE9B
DBH 2FFE79E716FA7A2FD23FD563DFF81E0
DBH 5F7696BFDCCCE7F5F3FBFDD3ADECE6E3F
DBH FFBFF5186FF3F3F1FE6F6AFCB54FF0F
DBH 0FF7B817SEFA7ABE70C2BB158F5DF9E7
DBH FD3A37FFCFFCFDC5C2E9FE1AEED76FDF
DBH F97FD0E1F2E2BFE8D81FFF2CD45F0479
DBH 474747474747
DBH 474746464747
DBH 474746464747
DBH 474746464747
DBH 474747474747

DB 6,5*8
DBH 30F063CF002C943F3E3D0C6748031E78
DBH C062900F6186E01027F841823FE8F45F
DBH C422FC2F5FFA15E83FF4FA5FC003FE5F
DBH 5FBD07E03DFAFA7FD008FE5F2FFE27E4
DBH 3FF4F40BF24BEC1709D197ED95C83060
DBH F60B060601F8D7EF1FC008C0F76B0310
DBH 21FFF5EFFF0804FFF7EBFF2321FEB7ED
DBH FE84045FFA637D2110AAD5FD0A8808E1
DBH FEA351100807A3F6FE0890FFE6A1BF08
DBH 097E100C3F5090560308F80810760007
DBH AB1088F60700CE10211F003BF30804F9
DBH 7D00BF20213A52DEDC84440D8FE17022
DBH 213060060E84441E00005822113C300C
DBH BC8808191E78981008413C3C82102055
DBH F99FAA0404550FF0AA20405408102A0Z
DBH 475716565747
DBH 475756565747
DBH 440646564646
DBH 440606464646
DBH 444446464646

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L6TANKTURRET1

DBH FF00C00083008300017C007C803FFF00
DBH FF0080210083008600120079802EFF00
DBH FF00004E00E4008A000A0006005CFF00
DBH FF0000580066002A00CA000D000C000
DBH 803F0098003900E200E2000300CB005F
DBH 005F009900C701B4011400DF000B0055
DBH 004A0018006E0032005200BC000B0050
DBH 0040001800580022000A00200088003F
DBH C000001800000052002200FE0058FF00
DBH FF00005800FF0104010C0083005AFF00
DBH FF000058009B0072000A00AB0042FF00
DBH FF00007C009B0076090000008000FF00

L6TANKTURRET2

DBH FF00810083008300017C007C007EFF00
DBH FF00004300830086001200790059FF00
DBH FF00005C00E4008A000A0006004CFF00
DBH FF00004E0026002A00CA000D0010C000
DBH 803F00D6003900E200E2004300E2006F

DBH 004700F6006701B40194007700420045
DBH 00460086001B00320052006F00020044
DBH 0068000600160022000A000800C2803F
DBH C000000600000052002200FE0056FF00
DBH FF00005600FF0104010C00830056FF00
DBH FF000056009B0072000A00AB0060FF00
DBH FF00803E009B007609000000C000FF00

L6TANKTURRET3

DBH FF00010083008300017C007C00FEFE00
DBH FE000083008300860012007900B9FE00
DBH FE00009E0024008A000A008600A7FE00
DBH FE00009900C6002A00CA000D0006E000
DBH C01F00E200D900E200E2004300F28033
DBH 802100F800C301F401D4005B00508021
DBH 802100A000DD00B20092004700008021
DBH 8032000000D30022000A004800F0C01F
DBH E000000000000052002200FE0082FE00
DBH FE00008200FF0104010C008300B2FE00
DBH FE00008E009B0072000A00AB00E0FE00
DBH FF00003E009B007609000000C000FF00

L6TANKTRS1

DBH 00444545
DBH 44044545
DBH 00040445

DBH 45454400
DBH 45450444
DBH 45040400

BADDYCRAWL61

DBH FE000300FF00FF00FF00FF000100FC00
DBH F80100FCFF00FF00FF007F000002F002
DBH E00400053F00FF00FF003F000001E004
DBH 800400BD3F00FF00FF003F00000D000A
DBH 007C00013F00FF00FF003F00000100FE
DBH 00DF00113F00FF00FF007F000004E009F
DBH 002F00E04700FF00FF0000300002F007D
DBH 00F300E701B8FF00FF00004400CF00F9
DBH 007600060084FF00FF00017800000029
DBH 001119800300FF00FF0087001F800010
DBH C00F3F00FF00FF00FF007F000E000
DBH F00FF00FF00FF00FF00FF00FF00FF00

BADDYCRAWL62

DBH FE000000FF00FF00FF007F0000FEFC00
DBH F80100013F00FF00FF001F800002F002
DBH F00200001F80FF00FF001F80005EE002
DBH 800100061F80FF00FF001F800000001E
DBH 007C00001F80FF00FF001F80000800FF
DBH 00CF00C73F00FF00FF007F0000E000CF
DBH 009700060FF00FF00FF007F00004E001F
DBH 003E00813F00FF00FF003F00001900B8
DBH 007E00653F00FF00FF007F000012001E
DBH 000200027F00FF00FF00FF0000C40000
DBH F0000138FF00FF00FF00FF000300FF00
DBH FF00C700FF00FF00FF00FF00FF00FF00

BADDYCRAWL63

DBH FE000300FF00FF00FF0000100FC00
DBH F80100FCFF00FF00FF007F000002F002
DBH E00400053F00FF00FF003F000001E004
DBH 800400BD3F00FF00FF003F00000D000A
DBH 007C00013F00FF00FF003F00000100FF
DBH 006700D10700FF00FF00030000CE00E7
DBH 00E300A00138FF00FF00004400F00071
DBH 001800E70004FF00FF00008400FF0084
DBH 0070007E0138FF00FF00030000380001
DBH 0C000100C700FF00FF00FF00C7007E00
DBH FF00FF00FF00FF00FF00FF00FF00FF00
DBH FF00FF00FF00FF00FF00FF00FF00FF00

LEVEL6END

L6CHRS

DBH 00000000000000000000000000000000
DBH FFFFFFFF00001C1DFFFFFFF0000AA55
DBH 00FFFFFFF0000EFDFFFFFFD00001C1D
DBH EEDFFFFFFD0000AA55FFFFFFF000000000
DBH FFFFFFFEFD00FF7FEFCF90205AA55
DBH FCFE0401FCFE0401A051A355AFSFBF7F

DBH 454707074707074747074747474747
DBH 47474747070747474747474746464646

DBH 454707074707074747074747474747
DBH 47474747070747474747474746464646

DBH 46464646464646464646460606464646
DBH 46474545454545454545060607064647
DBH 46474545454545454747070747070745
DBH 0745450745074545454747474707
DBH 070707470746460707470707070745
DBH 454545454545454547454545454545
DBH 45454547064747060647474706454506
DBH 064545064545464646464645454547
DBH 4747474747

L6BLOX

DBH 0101020304040506070802090A0B0C0D
DBH 0E0F101112131415A2A31AA416171819
DBH 16171617790069007983698485868788
DBH 898A848785868788898B848C5A005A00
DBH 0000000005A005A2123282924242626
DBH 2A2A2B2C2D2E2F30A1313233A1313435
DBH 36373838393638383A383C3D3E3F4041
DBH 424242424342424242444542424647
DBH 48494A4B484C4A4D4E4F505152535455
DBH 4C494D4B565742425859424204010605
DBH 250A250A202120212324232424252425
DBH 0A200A2021232123242424250A2626
DBH 2021272823242926242526260A202627
DBH 5E5E5E5E1E5F20602060206020602760
DBH 2A601E6027602A601E60276061626162
DBH 63646162212A21222165212A21222165
DBH 212366656768696A6B6C6D6E6F707172
DBH 737475426F707672737775781B1B1C1D
DBH 006C006E7A7B7C427D7E7F807D817F82
DBH 1E1F2021221B23241B1B241C1B1E1D20
DBH 8D8D7672008D7542008E75781F222123
DBH 1B1B24248F909192938E949596971D20
DBH 989623999696241C969A1D20239B2324
DBH 5B5C9C9D9E9E2626239B29265C5C2424
DBH 5C5D9C9D212921982626969627219A21
DBH 9F5C5A005C5C00005CA00005A

L6MAPX

DBH 41424344454445444544454443444344
DBH 4546474C4D4E4F5354474C4D4E4F5357
DBH 58595A53545454544C58595A4D4E4F58
DBH 595A4D4E4F58595A53535341010101010
DBH 1010101010101010
DBH 0948494A494A494A494A494A494A494A
DBH 494B28292A2B2C2D2E28292A2B2C2D33
DBH 5E323361626262635E32333132335E
DBH 32333132335E32332D36341010101010
DBH 1010101010101010
DBH 09484544454445444544454445444544
DBH 45462F3031323312132F30313233124F
DBH 4D4E4F2D64656566294D4E4F4D4E4F4D
DBH 4E4F4D4E4F4D4E4F4037341010101010
DBH 1010101010101010
DBH 0A0B0C0B0C0B0C0B0C0B0C0B0C0B0C0B
DBH 0C0E1414141414141414141414141433
DBH 3132332D0F1010112931323331323331
DBH 32333132333132333D38061010101010
DBH 1010101010101010
DBH 50515051505150515051505150515051
DBH 505215151515151515151515151557
DBH 58595A2D0F1010112958595A4D4E4F58
DBH 595A4D4E4F58595A3E39071010101010
DBH 1010101010101010
DBH 494A494A494A494A494A494A494A494A
DBH 494B474C4D4E4F5354474C4D4E4F532C
DBH 5B2B2C2D5C5F5F60295B2B2C2A2B2C5B
DBH 2B2C2A2B2C5B2B2C3F3A081010101010
DBH 1010101010101010
DBH 43444344434443444344434443440D0E
DBH 434628292A2B2C2D2E28292A2B2C2D33
DBH 313233125D13135D3031323331323331
DBH 32333132332A2B030400051010101010
DBH 1010101010101010
DBH 494A494A494A494A494A494A494A5556
DBH 494B000100000000000010100000100
DBH 0101000100000101000100000000001
DBH 00010101000100023C3B3B1010101010
DBH 1010101010101010

L6MAPY

DBH 474C4D4E4F5354474C4D4E4F5328292A
DBH 2B2C2D2E28292A2B2C2D2F3031323312

```

DBH 132F30313233121414141414141414
DBH 141414141515151515151515151515
DBH 15474C4D4E4F5354474C4D4E4F532829
DBH 2A2B2C2D2E28292A2B2C2D0001000000
DBH 00000001010000011617161716171617
DBH 16171617161819181918191819181918
DBH 19181C1C1A1B1C1C1A1B1C1C1A1B1C1D
DBH 1D1D1D1D1D1D1D1D1D1D1D1D1C1C1C
DBH 1E1C1C1C1F1C1C1C1C20202021221C1C
DBH 1C23242020201C1C1C1C251C1C1C261C
DBH 1C1C1C27272727272727272727272727
DBH 474C4D4E4F5354474C4D4E4F5328292A
DBH 2B2C2D2E28292A2B2C2D2F3031323312
DBH 132F30313233121414141414141414
DBH 141414141515151515151515151515
DBH 15474C4D4E4F5354474C4D4E4F532829
DBH 2A2B2C2D2E28292A2B2C2D0001000000
DBH 00000000000100011617161716171617
DBH 16171617161819181918191819181918
DBH 19181C1C1A1B1C1C1A1B1C1C1A1B1C1D
DBH 1D1D1D1D1D1D1D1D1D1D1D1D1C1C1C
DBH 1E1C1C1C1F1C1C1C1C20202021221C1C
DBH 1C23242020201C1C1C1C251C1C1C261C
DBH 1C1C1C27272727272727272727272727
DBH 474C4D4E4F5354474C4D4E4F5328292A
DBH 2B2C2D2E28292A2B2C2D2F3031323312
DBH 132F30313233121414141414141414
DBH 141414141515151515151515151515
DBH 15474C4D4E4F5354474C4D4E4F532829
DBH 2A2B2C2D2E28292A2B2C2D0101000000
DBH 0000000001000005758595A53545454
DBH 544C58595A335E32336162626262635E
DBH 32334F4D4E4F2D64656566294D4E4F33
DBH 3132332D0F101011293132335758595A
DBH 2D0F1010112958595A2C5B2B2C2D5C5F
DBH 5F60295B2B2C33313233125D13135D30
DBH 31323300010100010000010100010000

```

LGEND

ENDF

```

;*****
; ** END OF FILE **
;*****

```

```

;*****
; ** LEVEL 7 STUFF ( DATA , SPRITES AND PROGRAMMING ) **
;*****

```

```

IFLB STARTLEV=7
ORG LEVELDATA

```

LEVEL7DATA

```

DB $20,$40+FLOROF ; HERO X,Y
DB $00 ; MAPX
DB $00 ; MAPY
DB 0 ; 0=SCROLL L/R - 1=SCROLL U/D
DB $C6,$00 ; WEAPON ROOM X,Y INIT
DW $28D8 ; DOOR XY
DB $C6,$00 ; RIGHTMAX,DOWNMEX
DB $FF,$FF ; SETUD,SETLR
DW FLOOR7 ; FLOOR BLOCKS
DW WALL7 ; WALL BLOCKS
DB $FF,$FF ; LADDER BLOCKS - $FF,$FF - $FF,$FF
DB $FF ; CRAWL ON BLOCK
DB $14,$9C ; SLIDE UP
DB $04,$05 ; SLIDE DOWN
DW LEV7BADX,LEV7BADX2 ; LEVEL BADDY INITS X,EXTRA X
DW LEV7BADDY ; LEVEL BADDY INITS Y
DW L7CHRS ; CHRS
DW L7ATRS ; ATRS
DW L7BLOX ; BLOX
DW L7MAPX ; MAPX
DW L7MAPY ; MAPY
DB 128 ; MAPXMAXSIZE

```

```

CALL PRTSHIP:CALL PRRTUR:LD HL,0:RET
JP RESETLEV7BAD
JP SMODWAPS

```

WAPTABLE7 DB \$09,4,\$04,4,\$04,4,\$08,4,\$0A,6,\$00,2

```

JP RETURN ; KILL BIG
JP INITSHIP ; INIT BIG 1
JP INITTUR ; INIT BIG 2
JP RETURN ; INIT BIG 3
JP RETURN ; INIT BIG 4

;*****

SMODWAPS LD A,(MAPY):CP $F0:RET Z

LD IX,TURS:LD DE,2:LD B,3
SMTUR LD A,(IX+00):CP $E8:JR NC,HANS:ADD A,L:LD (IX+00),A
HANS ADD IX,DE:DJNZ SMTUR

LD IX,WAPXYS:LD DE,5:LD B,6
SMODWAPSBP LD A,(IX+02):CP $FF:JR Z,NOSMODWAPS
LD A,(IX+00):ADD A,L:LD (IX+00),A
CP $08:JR C,KILWAP:CP $E8:JR C,NOSMODWAPS
KILWAP LD (IX+02),$FF
NOSMODWAPS ADD IX,DE:DJNZ SMODWAPSBP:RET

RESETLEV7BAD XOR A:LD (ISBIGON),A:LD (PRTSHIP+1),A:LD (PRTTUR+1),A
LD IX,TURS:LD DE,2:LD B,3
RESTUR LD (IX+00),$FF:ADD IX,DE:DJNZ RESTUR
RET

;*****

FLOOR7 DB 2+2+2+4
DBH 0102
DBH 0405
DBH 7406
DBH 149C9A99

WALL7 DB 3
DBH 000C0A

;*****

LEV7BADX DB $08,$01,$64,KEY ; BADDY
DB $10,$01,$64,KEY ; BADDY
DB $18,$01,$64,KEY ; BADDY
DB $20,$FE,$00,$D8,$10 ; SHIP GUN
DB $28,$FE,$02,$D8,$08 ; SHIP GUN
DB $30,$FB,$04 ; SCROLL
DB $32,$FE,$04,$D8,$00 ; SHIP GUN
DB $38,$FF ; SHIP
DB $88,$01,$64,KEY ; BADDY
DB $90,$01,$64,KEY ; BADDY
DB $98,$01,$64,KEY ; BADDY
DB $A0,$01,$64,KEY ; BADDY
DB $A8,$01,$64,KEY ; BADDY
DB $B0,$01,$64,KEY ; BADDY
DB $B8,$01,$64,KEY ; BADDY
DB $FF,$FF ; END OF DATA
LEV7BADY DB $FF,$FF ; END OF DATA
LEV7BADX2 DB $FF,$FF ; END OF DATA

;*****
; ** MOVE SHIP SPRITE **
;*****

INITTUR CALL GETDATA:LD E,A:LD D,0:LD HL,TURS:ADD HL,DE
EX DE,HL:CALL GETDATA:LD (DE),A:INC DE
CALL GETDATA:LD (DE),A:LD A,1:LD (PRTTUR+1),A:RET

PRTTUR LD A,0:OR A:RET Z
LD IX,TURS:LD B,3
PRTTURBLP LD A,(IX+00):CP $E8:JR NC,NATUR:PUSH BC
LD E,A:LD D,(IX+01):LD HL,SHIPGUN23:CALL BAXITA:POP BC
NATUR LD DE,2:ADD IX,DE:DJNZ PRTTURBLP:RET

TURS DS 6,0

;*****

INITSHIP XOR A:LD (PRTTUR+1),A
INC A:LD (PRTSHIP+1),A:LD (SHIPDIR+1),A
LD (SWAPPED+1),A
LD HL,SHIPXYS+2:LD DE,3:LD B,10+6

```

```

INITSHIPBLP LD (HL),8:ADD HL,DE:DJNZ INITSHIPBLP:RET

KILLSHIP LD A,$90:LD (PRTSHIP+1),A:XOR A:LD (SHIPY+1),A
LD A,$74:LD (MAPX),A:RET

SINKSHIP INC A:LD (PRTSHIP+1),A:LD (NOScroll+1),A:AND 7
JR NZ,FARTY
LD HL,BACKSCR2+$A8F:LD DE,BACKSCR2+$B5F:LD BC,$A90:LDDR
LD HL,BACKSCR2:LD DE,BACKSCR2+1:LD BC,$CF:LD (HL),$00
LDIR
LD HL,BACKATR2+$151:LD DE,BACKATR2+$16B:LD BC,$152:LDDR
LD HL,BACKATR2:LD DE,BACKATR2+1:LD BC,$19:LD (HL),$47
LDIR
LD A,(SHIPY+1):ADD A,8:LD (SHIPY+1),A
FARTY CALL RAND:AND $1F
SHIPY ADD A,$00:LD D,A
LD A,(RND2):LD E,A
JP INITEXP

PRTSHIP LD A,0:OR A:RET Z:LD (NOScroll+1),A:JP M,SINKSHIP

LD A,(POS):AND 3:LD HL,WAVESPR:LD DE,$40:CALL MULT
LD A,(MAPX):ADD A,2:AND 3:ADD A,A:ADD A,A:ADD A,A
LD E,A:LD D,$60:LD B,8
LD A,(MAPX):CP $6E:JR C,NA7:DEC B
CP $70:JR C,ANA:DEC B
CP $74:JR C,ANA:DEC B
JR ANA
NA7 LD A,(MAPX):CP $38:JR NC,NA8
DEC B:LD E,$20
NA8
ANA
WAVEBLP PUSH HL:PUSH DE:PUSH BC:LD BC,$0408
CALL BAXIT:POP BC:POP DE:POP HL
LD A,E:ADD A,$20:LD E,A:DJNZ WAVEBLP

CANT LD A,0:INC A:LD (CANT+1),A

XOR A:LD (NOOFEM+1),A
LD IX,SHIPXYS:LD B,16
LD A,(MAPX):SUB 3:LD C,A
PRTSHPLP PUSH BC:LD A,(IX+02):OR A:JP Z,NXTSHP
LD A,(NOOFEM+1):INC A:LD (NOOFEM+1),A

LD A,(IX+00):SUB C:CP 32-3:JP NC,NXTSHP
ADD A,A:ADD A,A:ADD A,A:LD E,A:LD D,(IX+01)

LD A,D:CP $40:JR C,NOTBIGGUN
AND $3F:LD D,A:PUSH DE
LD A,(CANT+1):AND 15:CP 3:JR C,JEL:LD A,2
JEL LD HL,SHIPGUN21:LD DE,2+160+20:CALL MULT:POP DE

PUSH DE:CALL BAXITA:POP DE
PUSH DE:LD BC,$1F1F:CALL ISBULINBOX:POP DE
LD A,(CANT+1):AND 15:JR NZ,NXTSHP
LD A,E:ADD A,8:LD E,A:LD A,D:ADD A,$10:LD D,A
LD B,4:XOR A:PUSH IX:CALL INITMIS:POP IX:JR NXTSHP

NOTBIGGUN LD A,(HEROX+1):SUB E:LD HL,SHIPSPR2:LD BC,$0808
CP 32:JR C,OK_Y_ALL:CP -32:JR NC,OK_Y_ALL
LD A,(HEROX+1):SUB E:LD HL,SHIPSPR1:LD BC,$000A
JP C,OK_Y_ALL:LD HL,SHIPSPR3:LD BC,$1006
OK_Y_ALL PUSH BC:PUSH DE:CALL BAXITA:POP DE:POP BC

PUSH DE:CALL RAND:LD A,(RND1):AND 63:JR NZ,OKAT
LD A,E:ADD A,B:LD E,A:LD B,4:LD A,C
PUSH IX:CALL INITBIL:POP IX
OKAT POP DE:LD BC,$0F1F:CALL ISBULINBOX

NXTSHP POP BC:LD DE,3:ADD IX,DE:DEC B:JP NZ,PRTSHPLP
NOOFEM LD A,0:OR A:JP Z,KILLSHIP

JCNTY LD A,0:XOR 1:LD (JCNTY+1),A:RET NZ
SWAPPED LD A,0:OR A:LD A,0:LD (SWAPPED+1),A:JR NZ,NOSWAPSHIP
LD A,(MAPX):CP $18*2:JR Z,SWAPSHIPDIR
CP $3A*2:JR NZ,NOSWAPSHIP
SWAPSHIPDIR LD A,1:LD (SWAPPED+1),A
LD A,(SHIPDIR+1):NEG :LD (SHIPDIR+1),A:RET
NOSWAPSHIP XOR A:LD (SMODHERO+1),A:CALL SHIPDIR
LD A,1:LD (SMODHERO+1),A:RET

```

SHIPDIR	LD	A,1:OR A:JP P,DOSCRIGHT:JP DOSCLEFT
SHIPXYS	DB	\$57,\$30,\$08
	DB	\$5A,\$20,\$08
	DB	\$5D,\$10,\$08
	DB	\$5D,\$30,\$08
	DB	\$60,\$00,\$08
	DB	\$60,\$20,\$08
	DB	\$63,\$10,\$08
	DB	\$63,\$30,\$08
	DB	\$66,\$20,\$08
	DB	\$69,\$30,\$08
	DB	\$38,\$90,\$08
	DB	\$40,\$88,\$08
	DB	\$4A,\$80,\$08
	DB	\$74,\$80,\$08
	DB	\$7C,\$80,\$08
	DB	\$84,\$90,\$08
SHIPSPR1	DB	4,2*8
	DBH	D550055000F007802FEFFBF4E8FDDF97
	DBH	10000008F2FEBF8F2020020606E223B0
	DBH	3527F2A656F2A7B2350632A6561284B2
	DBH	350512A656920532B40222A453C201D4
	DBH	06464646
	DBH	06474746
SHIPSPR2	DB	4,2*8
	DBH	D550055000F0078017CFF7FAE4FBBFAF
	DBH	20000018E2FBFFBE008008061E880FA0
	DBH	2A9FCA9E5EC9BFA42A63CA9E5EC941A4
	DBH	28518A9E5E895920A0230A9C5B091EC0
	DBH	06464646
	DBH	06474746
SHIPSPR3	DB	4,2*8
	DBH	D550055000F007805FF7F9F4F4FEEFA7
	DBH	18000004BCFFFEFA73808008282F009BC
	DBH	3CABF8AA92FC48BD3CA3C6AA928243BD
	DBH	3CA1A2AA92B2413DBC80C4A8937800DD
	DBH	06464646
	DBH	06074746
SHIPGUN21	DB	4,5*8
	DBH	00000000000000000000000000000000
	DBH	00000000000000000000000000000000
	DBH	00000000000000000000000000000000
	DBH	00200400000A40000080050000058000
	DBH	0F8005F008081010200FF0E472010048
	DBH	850AB9797971038A84800371E1FE7F82
	DBH	810001C999FFFF808100003979FE9F82
	DBH	81900679794695828192A67979469582
	DBH	8192A679794695824190067A74069022
	DBH	119FFE681000000C0300006040A12E01
	DBH	00000000
	DBH	00054700
	DBH	05054747
	DBH	05070747
	DBH	07070747
SHIPGUN22	DB	4,5*8
	DBH	00000000000000000000000000000000
	DBH	0000000000F81F0000200400000A4000
	DBH	00800500000580000080050000099000
	DBH	008FF100000980000008AB10000798300
	DBH	0F8AB1F008780310200AB0E472790340
	DBH	940AB1797971038A84800371E1FE7F82
	DBH	810001C999FFFF808100003979FE9F82
	DBH	81900679794695828192A67979469582
	DBH	8192A679794695824190067A74069022
	DBH	119FFE681000000C0300006040A12E01
	DBH	00054700
	DBH	00054700
	DBH	05054747
	DBH	05070747
	DBH	07070747
SHIPGUN23	DB	4,5*8
	DBH	001FF8000004200000400A0000058000

DBH 008005000005800000900000F18F00
DBH 0080010000A98A000083710000B98A00
DBH 0083710000B98A000083710000B98A00
DBH 0F8371F008B80A10200370E472B90A40
DBH 8001517979A1048884800371E1FE7F82
DBH 810001C999FFFF808100003979FE9F82
DBH 81900679794695828192A67979469582
DBH 8192A679794695824190067A74069022
DBH 119FFE68100000C0300006040A12E01
DBH 00054700
DBH 00054700
DBH 05054747
DBH 05070747
DBH 07070747

WAVESPR

DBH 00000000EF7DFCFFFFFBB17CB55F4FF
DBH FFEB246532AAE9FF0004A07239D10C00
DBH 0011D21939A962FF7E85C459B5A80B8D
DBH 7255C35ABBF5BA8CF3C06B371F3E11FF

DBH 00000000FFEECFFFFF7D17F7FD54BFF
DBH FF55D2E79BEDB8FF000000648A000000
DBH 800C011D3D3A337FBEC0C460BD380F59
DBH A62A451A3B3AD1D8E7BA0457B7521DFE

DBH 00000000FFFFFFFF1EEF9FFFFFFFFF6D2
DBH D4E97FFFFF7FE9D20C06000038000000
DBH 0000004493FED8BF5F27390C18C6C0A4
DBH DB1438AC5EC20AE4FA5754BF7B692CFD

DBH 00000000FFFFFFFFFFFFC7B8FFFFF
DBH FFF3FF459A00EC8F6012004AAA002D90
DBH AB22E11D3D92B28C5B466C7DD300BA4
DBH DEB9C31B3BE654E57BBA2D57B7565C3F

LEVEL7END

L7CHRS

DBH F6F4F2F6EEDEBE3EFAF9FBF7EFD9F5F
DBH BEBDBB87A797B777DEDDDB03CBD8B87B
DBH 7C7D7B776F4F2F6F000000000000000
DBH EEDEE9E5EDDDBD7D00FFAAFFFAAFF00
DBH 01785B7B58795978FF00C3000000000
DBH 00FFABFFFFABFF00001EDADE1A9E9A1E
DBH 00FFBDFBDFBDFBDF00FFFF004A204021
DBH 00FFFF00BC429D2E4121432444244422
DBH 3E3E1E00AF4FAF0000FFFF00AA040284
DBH 8284C224A2A4A244DEDD8D2C1C08100
DBH EFCEDAB430B5BAA51AB07AF4F2655AB
DBH 438B1BBA399B570F5B7B58785B7B5B00
DBH C1F3FC3FCFC30000DADE9A1EDADEA00
DBH 5F5F5F5F5F5F5F5F4081A3B7AF9FBF7F
DBH 16010B570F5FBF7FFFFFFFFFFFFFFFFF
DBH FEF8F8F1E2C58A15FEFCF8F0E2C48A14
DBH 2A55AB57AF5FBF7FEE7CB43271F4F67
DBH 007CB9D3E7E7C38973787873674F1F27
DBH 142A552A94C9E3F7FE7CBC3E6CF9AF6
DBH EE5E3E5EEEF6FAE476F4F1F4E9DA9552
DBH 007F7F7F7F7F7F7FC5CAD5C295225522
DBH 7F7F7F7F7F7F7F7F0FEFEFEFEFEFEFE
DBH FFFFFFFFFFFFFFFF020D122540410040
DBH B07CFE7EBF7FBF7FA080400403490740
DBH B668B07830C8F8F04BC3E7F00013D2D
DBH E3D9BC0000000003D2D3D2C3C007F80
DBH 00007E5ABDFFFF00CAC3E77F0080BCB4
DBH BCB4BC343C00FC01552A552A552A552A
DBH 00FFFFFFFFFFFFFFFF00FEFDFAF8DFEFF
DBH 004100010000080000BB9582A140903
DBH 542A542A5400FFFF0B102B132B132B13
DBH 2B132B132B132B138381402211080602
DBH 59397A74681060400002040A142A54AA
DBH 00FFFFFFFFFFFFFFFF00FFFFFFFFFFFFF1
DBH 00FFFFFFFFFFFF00FCF9F3E7EE0CEC
DBH 7FFFC0803F7FFFFF7FF80002E5D2E5D
DBH FCFE020078B47AB45E2D5E2D5E2D5E2D
DBH 002D5E2D5E2D5E2D00040A142A54AA54
DBH 009FAF8F8F8F8F8F00FF8F3E6C09FA0

DBH 00FF00FF0000FF0000FF3FDF6F03FD01
DBH 54AA54AA54AA54AFFFFFFFFFFFFFFFFF
DBH EED0A04241424140000000AA55AA5500
DBH 0C0C0CAC4CAC4C0CFFFE7DBB3674F9F
DBH 0C4C2C4C2C4C2C47AB47AB47AB47AB4
DBH 00AF5F000000000000FF0000000000
DBH 8F8F8F8F8F8F003F84C09FA084E500FF
DBH 0000FF0000FF00FF2303FD01232F00FF
DBH FFFFFFFFFF00FF00FF0000AA5500
DBH 2C4C2C4C2C4C2C47AB47AB47AB47ABC
DBH AF00AF572B150A00FF00FFFFFFFFF00
DBH 010201000000000054AA55A9007F8000
DBH FF00FFFFFFFFF600FC0202FC010000
DBH 7071720700FF00000055A0FF000000
DBH FC01FCFCFCFC60FFFFFFFF00FF0000
DBH 2D5E2D5E2D0000001D2E5D2E5D2E5D2E
DBH FFFFFFFFFF000000FF00FF007F007F00
DBH FF01FD05F505F505000708FEFC000000
DBH 00F008B47402FA02002E5D2E5D2E5D00
DBH 00FFFFFFFFF00FF00000FFFFFFFFF
DBH FFFF0000FFFFFFFF00007AB47AB47AB400
DBH EAF400007AB47A002E5D2E5D2E5D2E5D
DBH FCFEFCFEFCFEFCFE2E5D2E5D2E5D2E00
DBH FEFEFEFEFEFEFF0000BF5FBF5FBF5F00
DBH 000000000000FF007070707000FFFF
DBH 00FCFEFEFEFEFE000000000000FCFE
DBH 7F007F007F007F00F505F505F505F505
DBH BA7ABA7ABA02FA020708FEFC00000000
DBH BA7ABA7ABA000000FFFFFFFFFFFFFFFF
DBH 7FFF80002E5DAE00FFFF0000FF00FF00
DBH FCF4F4F4F4F4F400EAF40000EA00FE00
DBH 00FFFFFFFF0000818181818199A45FF
DBH 181818185A9942FF3F5F2F5F2F5F2F00
DBH 5F2F00002F5F2F00FEFEFEFEFEFE00
DBH FEF0100FCFEFE00FFFF000074BA74BA
DBH 74BA74BA74BA74007FFF80802E5D2E5D
DBH F4FAF4FAF4FAF4FA007F000000000000
DBH 00FF0000000000007F3F9F4F27130904
DBH 000000000000000102050B172E5CB972
DBH 00FFFF0018599A0000FFFF0000000000
DBH 00FFFF000000000000FFFF0018589800
DBH E5CA942850A0410002FAF80002A85200
DBH 3F409FA080402020FF00FF0000000000
DBH E010E8341A0D0603000000000000FC02
DBH 0200BF5F008A558A1700FFFF00AA55AA
DBH 5100FFFF00AA55AA4304F8F206AE4EAE
DBH 21222122212321205DBB77EFD0BF7F00
DBH 81C0E0E0D0BA75EAF90501120C101010
DBH FC02F90501120C04558A558A558A558A
DBH 55AA55AA55AA55AA4EAE4EAE4EAE4EAE
DBH 21222122212321225DBB77EFD0BF7FFE
DBH FDFBF7EEDDBB77EEC4A444E4C4A44484
DBH 00FFFF0000AA540000FFFF00007C8282
DBH 00FEFF0100A85000000001AA55AA5500
DBH 8244008245AA5500FEF1EFDEB1AE5020
DBH 0FF7FB0DF5090505FFFEFCF8F0E0C080
DBH 000000A850A04000404042494659278F
DBH 05550BF70FFFFFFFFFEFCF80C000000
DBH FFFEF8F8F000000000F0FFFFFFFFFFFF
DBH 000000F0FFFFFFFFF000000000F0FFFF
DBH 00000000000000F000000000000000F
DBH 000000000000FFFFF0000000FFFFF000
DBH 000FFFFFFFFFFFFF6098E6F9FEFFFFF
DBH FF000055AA55AA00FFFFFFFFF3CFF33C
DBH FEFDF8F1E2C58A150C0400806098E6F8
DBH 000205A857AF5F3F81C0E0E0D0BA7500
DBH FFFFFFFFFDFAF5FA007F7F3F00000000
DBH 00FFFFFFFF0000000000001123936A5D2
DBH 00000080445D3EC90040A046A94EAD57
DBH 00050A16964FEFEC05F1F0018599A00
DBH C0C0800000000000000000306CE8481
DBH 709898978F00002E000000000E1D61E9
DBH 000306FAFC0000A100FEFEFEFEFEFEFE
DBH 3F4F733C4F23080240704C53C5F5F5F
DBH 8F220802C0300C303F3F3F3F3F3F3F3F
DBH 33CCF3FCFFFFFFFF003F3F3FCF334DA200
DBH FFFFFFFFF3CFF33CFFFFFFFFFFFFFFFF00
DBH 0E0200806098E6003F4F733C0F030000
DBH 6098E6F93ECFF33C0C0400806098E600
DBH 3F4F733C8F838080

DBH 464646464647464646064646460E4E0E
DBH 4E4E4E4606060646064646474747474747
DBH 47464646464646464606070606064646066
DBH 4646464646464605474706464745450505
DBH 47054545454545050505050545454545
DBH 05450505454545054747454545454547
DBH 45050545050545454545454505054507
DBH 07454705454545050505450545454545
DBH 45450707474547450545450507070745
DBH 45454505050545454545474707070707
DBH 47470545454707070707054545054507
DBH 07070545450547470505454545450545
DBH 454545474747474747474705474747
DBH 454545070746474647467070507470745
DBH 4747474746474646464646464646

DBH 0005021B1C1D1D1E1F05201F2B202C2B
DBH 1E20201E1E202013D383B1D1D050C050C
DBH 0D0E0F10110C120C0001021304051405
DBH 00050205150516058438BBD548CD78D
DBH 8CD38ED5D48FD790050538381F0520CE
DBH CBFC1F1D093E3053E905414205054344
DBH 3FDC4444DE40444405054440545446
DBH 0547484905054A4A2050542423FDC4242
DBH DE4042424B4234C4D4242424E42424E4F
DBH 5051424D052534E453534E4F53534C4D
DBH 53534E4E54555651574957494A515859
DBH 51515959A5B59595C5C59595C5D5959
DBH 5E5E59595C5C5F5C5D5F5F60515F5F
DBH 61495F5F626364656366676863666968
DBH 636A969653536868056C056D666E5151
DBH 05056F7005057172737447757477576
DBH 74777678797A7B7C7D747E7F80058105
DBH 8283283718485878788892728292A
DBH 07070809A050B05372A372A91059205
DBH 75755187759387948C8D8E95757B87
DBH 757587517595515D2D396D50497D705
DBH 98999A9B96975F9C9C5F5F9C9D5F05
DBH 9E9C5F5F9FDA5F5F9BA05FA153535151
DBH 51516B6B05AA2A30505A4A53FDC6A67
DBH DE40A8A9AA5A2A3B0B15F5B2B335F
DBH B4B5F6B6A80B75FACAD5F5F3FDCB75F
DBH DE405F5F05055F05055F6853B95151
DBH BA5351515353BBBC5353518D8E05105
DBH 8F0C6B6B51516B1BD0505056E6E5BD
DBH 1D1D1D1D2C2C2C2C050538392F303A3B
DBH 05052D2E33343C3C36053C382304333C
DBH 260535051718212190520525255132
DBH 05053C5605057C80505C9CACCC1D1D
DBH CCCCCC000102030405060505050505
DBH 0505053D53D06B6BD1ADA3A75485157
DBH 51575F5FD4D6D8D3D4D5D6D4D0D8D7
DBH C20505050505D805050505DD8053FDC
DBH 05DDDE4042D424251515F5F0E0DE1E2
DBH 1AE31AE34E5ECCE6E7E8C05E9E9EA
DBH EAE8B8C09E9E9CEA

[illegible]

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DB $20,$60+FLOROF      ; HERO X,Y
DB $00                  ; MAPX
DB $44                  ; MAPY
DB 1                    ; 0=SCROLL L/R - 1=SCROLL U/D
DB $E6,$00              ; WEAPON ROOM X,Y INIT
DW $0078                ; DOOR XY
DB $00,$44              ; RIGHTMAX,DOWNMAX
DB $FF,$FF              ; SETUP,SETLR
DW FLOOR8               ; FLOOR BLOCKS
DW WALL8                ; WALL BLOCKS
DB $02,$0D              ; LADDER BLOCKS - $02,$03 - $0F,$10
DB $FF                  ; CRAWL ON BLOCK
DB $FF,$FF              ; SLIDE UP
DB $FF,$FF              ; SLIDE DOWN
DW LEV8BADX,LEV8BADX2   ; LEVEL BADDY INITs X,EXTRA X
DW LEV8BADY              ; LEVEL BADDY INITs Y
DW L8CHRS               ; CHRS
DW L8ATRS               ; ATRS
DW L8BLOX               ; BLOX
DW L8MAPX               ; MAPX

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```

        DW  L8MAPY          ; MAPY
        DB   0              ; MAPXMAXSIZE

        CALL PRTFIRE:CALL PRTSNAKE:LD  HL,0:RET
        JP   RESETLEV8BAD
        JP   RETURN
WAPTABLE8
        DB   $0B,1,$0C,1,$0D,1,$0E,1,$0F,1,$10,1
        JP   KILLSNAKE      ; KILL BIG
        JP   INITSSNAKE     ; INIT BIG 1
        JP   RETURN         ; INIT BIG 2
        JP   PRTBLADE       ; INIT BIG 3
        JP   LEVEL8DOOR     ; INIT BIG 4

;*****

RESETLEV8BAD  XOR  A:LD  (ISBIGON),A:LD  (PRTSNAKE+1),A
               INC  A:LD  (PRTFIRE+1),A

               LD   HL,BADDY8CLIMBS:LD  DE,BC1:LD  BC,4*5:LDIR

               LD   HL,SP2:LD  DE,SP1:LD  BC,6*4:LDIR

               RET

SP2
        DW  DADSPR          ; DAD BODY
        DB   4*4,0-20
        DW  MUMSPR          ; MUM BODY
        DB   4*4,0-20
        DW  SISSPR          ; SIS BODY
        DB   4*4,0-20
        DW  BROSPR          ; BRO BODY
        DB   4*4,0-20
        DW  GRDSPR          ; GRD BODY
        DB   4*4,0-20
        DW  GRNSPR          ; GRN BODY
        DB   4*4,0-20

BADDY8CLIMBS  DW  BADDYCLIMB81:DB  11,0,-6; BAD CLIMB
               DW  BADDYCLIMB82:DB  10,0,-4; BAD CLIMB
               DW  BADDYCLIMB83:DB  11,0,-6; BAD CLIMB
               DW  BADDYCLIMB84:DB  10,0,-4; BAD CLIMB

;*****

FLOOR8        DB   4
               DBH  00010B0C

WALL8         DB   4+4
               DBH  20141312
               DBH  15110F0A

;*****

LEV8BADX      DB   $FF,$FF          ; END OF DATA
LEV8BADY      DB   $40,$08,$04,KEY  ; CLIMBER
               DB   $38,$08,$04,KEY  ; CLIMBER
               DB   $30,$08,$FB,KEY  ; CLIMBER
               DB   $28,$08,$04,KEY  ; CLIMBER
               DB   $20,$08,$FB,KEY  ; CLIMBER
               DB   $18,$08,$04,KEY  ; CLIMBER
               DB   $10,$08,$04,KEY  ; CLIMBER
               DB   $06,$FB,$06      ; SCROLL UP
               DB   $00,$FF          ; SNAKE
               DB   $FF,$FF          ; END OF DATA
LEV8BADX2     DB   $FF,$FF          ; END OF DATA

;*****

PRTFIRE       LD   A,1:OR  A:RET  Z
               LD   A,(MAPDIR):OR  A:RET  Z

;
FIRECNT       LD   A,(POS):AND  1:LD  A,(FIRECNT+1):JR  NZ,FIJ
FIJ           LD   A,0:INC  A:CP  3:JR  C,FIJ:XOR  A
               LD   (FIRECNT+1),A

               LD   A,(MAPY):SUB  $10:RET  C
               LD   E,A:LD  D,0:LD  IX,FIREMAP:ADD  IX,DE
               LD   DE,BACKSCR+3:LD  B,16
FIREVB        LD   A,(IX+00):CP  $FF:JR  Z,SKPPY
               PUSH BC:LD  A,(FIRECNT+1):ADD  A,A:ADD  A,(IX+00):INC  IX

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[illegible]

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DBH 28C000006D8C6D8CDF46DF46DF8FDF8F
DBH FFDFFDF6DEF6DEF49DE49DE1ACC1ACC
DBH 51865186002200222004200400000000
DBH 00000000000000000000FEEA0000FF55
DBH 00000000000000000000000000000000
DBH 00000000000000000000000000000000
DBH 28C028C06D8C6D8CDF46DF46DF8FDF8F
DBH FFDFFDF6DEF000049DEFEAA1ACCF55
DBH 51860000002200222004200400000000
DBH 00000000000000000000000000000000
DBH 00000000000000000000000000000000
DBH 00000000000000000000000000000000
DBH 00007FD400007FAA00007FD500007FEA
DBH 02000200401000000082FEAA2628FF55
DBH 39DC0000510851082200220000140014
DBH 00000000000000004000400001020102
DBH 00000000008400840000800080000000
DBH 00020002442800000204FEAA2008FF55
DBH 08C400003DEE3DEE7FFE7FFE3FFC3FFC
DBH 7D5F7D5FBACDBACD5A945A9414421442
DBH 10001000000000000000000000000000
DBH 00000000000000000000FEEA0000FF55
DBH 00000000000000000000000000000000
DBH 0000000000000000000000000180018
DBH 0030003082328232466446646DFE6DFE
DBH FFFFFFFF0000F7BAFEAA6719FF55
DBH 42300000210021000004000408400840
DBH 00000000000000000000000000000000
DBH 00000000000000000000000000000000
DBH 00000000000000000000000000000000
DBH 00000000000000000000FEAA0018FF55
DBH 0030000082328232466446646DFE6DFE
DBH FFFFFFFF0000F7BAF7BA67196719
DBH 42304230210021000004000408400840
DBH FFFFFFFF0000F7BAF7BA67190000
DBH 42307FD421007FAA00047FD508407FEA

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```

LEVEL8DOOR LD A,E:OR A:RET Z
DOOR1 LD DE,$0078:LD HL,SNAKEDOOR:LD BC,$0310:CALL MASKCXB
DOOR2 LD DE,$0080:LD BC,$0310:CALL MASKCXB
LD IX,PRTDOR-1:LD DE,$0078:LD BC,$2018:CALL ISBULINBOX
LD A,(PRTDOR+1):OR A:RET NZ
LD DE,(DOORXY):LD A,D:SUB $08:LD D,A
LD A,E:SUB 8:LD E,A:PUSH DE:CALL INITEXPORND:POP DE
PUSH DE:LD A,D:ADD A,$18:LD D,A:CALL INITEXPORND:POP DE
LD A,D:ADD A,$30:LD D,A:JP INITEXPORND

PRTDAZZLE LD C,0
LD A,(POS):AND 3:JR NZ,NAZZLE
LD A,C:INC A:CP 16:JR NC,NAZZLE:LD (PRTDAZZLE+1),A
NAZZLE LD HL,DAZTAB:LD A,C
CALL ADDHLA
LD A,$7C:SUB (HL):PUSH HL
LD E,A:LD D,0:LD HL,SNAKEDOOR:LD BC,$0310:CALL MASKCXB
POP HL:LD A,$7C:ADD A,(HL)
LD E,A:LD D,0:LD HL,SNAKEDOR2:LD BC,$0310:JP MASKCXB

DAZTAB DBH 0404040C
DBH 0C0C1414
DBH 140C0C0C
DBH 04040404

```

```

INITSNAKE XOR A:LD (PRTFIRE+1),A
LD (PRTDAZZLE+1),A
INC A:LD (PRTSNAKE+1),A:LD (NOSCROLL+1),A
LD A,$7F:LD (BIGHITS),A
LD A,4:LD (SNAKEANI+1),A
LD A,29-2:LD (SNAKECNT+1),A

LD HL,$0808:LD (BOUNCEDIR),HL
LD HL,$0078:LD (SNAKEX),HL
LD HL,SNAKEX:LD DE,SNAKEX+2:LD BC,30-2:LDIR

LD A,8:JP PLAYMUSIC

KILLSNAKE XOR A:LD (ISBIGON),A:LD (PRTSNAKE+1),A
LD A,$E6:LD (MAPX),A

```

```

RET

PRTSNAKE LD A,1:OR A:RET Z
CALL PRDZAZLE
LD A,(PRDZAZLE+1):CP 8:RET C
LD HL, SNAKEX+27:LD DE, SNAKEX+29:LD BC,28:LDDR
SNAKEANI LD A,0:LD HL, SNAKETRAIL:ADD A,A
CALL ADDHLA
LD E,(HL):INC HL:LD D,(HL):EX DE,HL:LD DE,(SNAKEX)
CALL JPHL
SNAKECNT LD A,12:DEC A:LD (SNAKECNT+1),A:CALL M,GONEXTS
SNAKEPOS LD A,4:ADD A,A:ADD A,A:LD HL, SNAKEROUTS
LD E,A:LD D,0:ADD HL,DE
LD E,(HL):INC HL:LD D,(HL):INC HL:PUSH DE
LD E,(HL):INC HL:LD D,(HL):EX DE,HL:PUSH HL

LD A,(BIGHITS):RRA :RRA :RRA :RRA
AND 7:INC A:LD B,A
LD HL, SNAKEX-2:ADD A,A:ADD A,A:LD E,A:LD D,0
ADD HL,DE:PUSH HL:POP IX
LD HL, SNAKETAILSPR:LD IY,MASKCXB
BCALP LD A,B:CP 1:JR NZ,FENJ:POP HL:POP IY
FENJ PUSH BC:LD E,(IX+$FE):LD D,(IX+$FF)
DEC IX:DEC IX:DEC IX:DEC IX
PUSH HL

PUSH DE:PUSH BC:LD BC,$0410:CALL JPIY:POP BC:POP DE
LD HL,TAILATR:LD A,B:CP 1:JR NZ,FANG
LD A,(SNAKEANI+1):ADD A,A:ADD A,A:ADD A,A:ADD A,A
LD HL, SNAKATR:CALL ADDHLA
LD BC,$0404:CALL BAXATR
POP HL:POP BC:DJNZ BCALP
LD HL,(SNAKEX):LD H,$1F:LD (BIGX1),HL
LD HL,(SNAKEX+1):LD H,$1F:LD (BIGY1),HL
LD A,1:LD (ISBIGON),A
RET

JPIY JP (IY)

SNAKEROUTS DW MASKCXB, SNAKESPR1
DW MASKCXB, SNAKESPR2
DW MASKCXB, SNAKESPR3
DW MASKCXBINVADD, SNAKESPR2
DW MASKCXBINVADD, SNAKESPR1
DW MASKCXBMINVADD, SNAKESPR2
DW MASKCXBMINVADD, SNAKESPR3
DW MASKCXBMINVADD, SNAKESPR2

GONEXTS LD A,(SNAKEANI+1):INC A:AND 3:LD (SNAKEANI+1),A
LD DE,(SNAKEX):LD A,D:OR A:JR Z,TOPLIN
LD A,29:LD (SNAKECNT+1),A:RET
TOPLIN LD A,E:OR A:JP P,LTSN
RTSN LD A,29+3:LD (SNAKECNT+1),A:RET
LTSN LD A,29-1:LD (SNAKECNT+1),A:RET

SNAKETRAIL DW BOUNCE
DW DOWN
DW SPIN
DW CLIMB
DW WAITAROUND

WAITAROUND LD A,(SNAKECNT+1):OR A:RET NZ:LD (SNAKEANI+1),A
LD A,19:LD (SNAKECNT+1),A:RET

SNAKEX DS 30,0

BOUNCE DB 33
BOUNCEDIR DW $0808
LD A,D:ADD A,H:LD D,A:LD A,E:ADD A,L:LD E,A
LD (SNAKEX),DE
LD A,E:CP $20:JR C,SWAPXS:CP $C0:JR C,NOSWXS
SWAPXS LD A,L:NEG :LD L,A
NOSWXS LD A,D:CP $08:JR C,SWAPYS:CP $28:JR C,NOSWYS
SWAPYS LD A,H:NEG :LD H,A
NOSWYS LD (BOUNCEDIR),HL
LD A,4:LD (SNAKEPOS+1),A

TIMESINCE2 LD A,0:INC A:OR A:JP M,GAH2:LD (TIMESINCE2+1),A
CP 15:JR C,NAMIZ
GAH2

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LD D,$07:PUSH DE
LD A,L:ADD A,A:ADD A,A:ADD A,A
ADD A,E:LD E,A
LD A,(HEROX+1):ADD A,8:LD L,A:LD H,$0F
CALL HITA:POP DE:JR NC,NUMI2

CALL HITA:JR C,NAMI2:LD A,8:JR AMK2

NUMI2 LD A,(HEROX+1):CP E:LD A,6:JR NC,AMK2:LD A,10
AMK2 LD B,4:LD DE,(SNAKEX):PUSH IX:CALL INITBLD:POP IX
XOR A:LD (TIMESINCE2+1),A
NAMI2 RET

DOWN LD A,D:ADD A,8:CP $60+1:RET NC
LD (SNAKEX+1),A
CUJO LD A,(HEROX+1):CP E:LD A,$F8:JR C,CUJO:LD A,$08
LD (SPIN+1),A:RET

SPIN LD A,0:ADD A,E:CP $20:RET C:CP $C1:RET NC
LD (SNAKEX),A
LD A,(SPIN+1):OR A:LD E,1:JP P,MDL:LD E,-1
MDL LD A,(SNAKEPOS+1):ADD A,E:AND 7:LD (SNAKEPOS+1),A:RET

CLIMB LD A,D:SUB 8:RET C:LD (SNAKEX+1),A
XOR A:LD (SNAKEPOS+1),A:LD A,(SNAKEX):CP $20
LD HL,$0808:JR Z,SNEO:LD HL,$08F8
SNEO LD (BOUNCEDIR),HL:RET

PEOPLES PR
DADSPR DBH 80501F800F4000A1004107A007600086
DBH 000E03700330001C00380118001C007B
DBH 003300CC009C0019001C013803F0000E
DBH 001C03600170001C0038015800380028
DBH 007300BC001400310024015003C00086
DBH 004207400FC00086004407E00740008C
DBH 00040760072000880000F0007200044
DBH 008C07600760000C00800F001F008100

MUMSPR DBH 80520FC00F4000A700460760078000A1
DBH 004A033003D00099001301E801080033
DBH 0022014801D0001A009A03D00720004B
DBH 00A5076003F000440023036003000000
DBH 002007800F40801180090FC007E08012
DBH 800307E007A08013002503700138000E
DBH 0024015003408001800107401F008010
DBH 80010F400F408011C0081F003F00E000

SISSPR DBH 80510FC007A000A10046035003300086
DBH 000C0118010800880019018800C001B
DBH 000900C400300082000601B001B8008A
DBH 000D01D803C0008D004307E0070000A3
DBH 004003D003F0008700470007600080
DBH 004307600F4000A3005107A0076000A3
DBH 004307600F4000A100500F00072000A2
DBH 004207200760002380000F001F00C000

BROSPR DBH 80501F800FC000A10042074003100089
DBH 001C0138003C00380072011803B0003B
DBH 001B07600FC0000C00070FC00F80008F
DBH 00451F001F800080004F0F800F400097
DBH 000D0F800F00008000D1F801F80008D
DBH 00051F803F00008500413F007F000080
DBH 00027F003F00008780007F00FF00C000
DBH FF00FF00FF00FF00FF00FF00FF00FF00

GRDSPR DBH 80430F0007600084000C033001D8001B
DBH 0016016803B0002C002903D003D00029
DBH 002401A801580012001301D803B00009
DBH 008C037003700006008D03B001D8000A
DBH 001901D805C0019001D00BC00BC000C
DBH 003E007C007C003D001A01B803400086
DBH 000E03700370008E0000030007200084
DBH 004E03700370008E800007000F00C100

GRNSPR DBH 80421F800FC000A200450F800760008C
DBH 0019076003B00033007701D801D80036
DBH 0039013803B0001B0019033003D00016
DBH 001603D007A0000A008607C003D00006
DBH 008203B003B0000A008C037003F0000E

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DBH 008F01780178801F801B00BC002C8025
DBH 0080010003A0004200A207A003000040
DBH 0087037003608043C00007008F00E000

SNAKED00R

DBH E7000700FF00FF0003F8C018
DBH 80270104FF00FF0001E40048
DBH 80230014FF003F0000030046
DBH 004D00001FC00F2000800054
DBH 802C00000F201FC000000048
DBH 004800033F00FF0000040048
DBH 80280104FF00FF0001340044
DBH 004C0164FF00FF000062802C
DBH 002600F13F001FC000780026
DBH 001700380F200F200080000B
DBH 801300E60F201FC000CC8027
DBH 004B00093F00FF000022004F
DBH 802701B4FF00FF000194802B
DBH 00470194FF00FF0000C2004B
DBH 802500017F003F8000E4C018
DBH E007001B7F00FF00E400F800

SNAKED0R2

DBH FE000E003F00FC000F1FC01
DBH F802000E0730038800F0F005
DBH F004000F01A400720003F803
DBH FC0000C101E400F20020FF00
DBH FF00002000E4004800C0FC00
DBH F8030030016401480046F004
DBH F0040001006400C8000EF004
DBH F004001F01500348002FF802
DBH FC01003F016400F200DEF00
DBH FF00002900A201E48023FF00
DBH FF00002701D4012400C3FE00
DBH FC01000700C20072003DF802
DBH F00500FD00F201E4007BF004
DBH F0040033013400F20003F802
DBH FC010006006201840091FE00
DBH FF00006E037887009100FF00

SNAKESPR1

DBH FF00E0000700FF00FF000300C000FF00
DBH F800801F01F81F000F000080010F000
DBH E007001300C807E0031000910089C008
DBH 801A00C8001301580004002400250020
DBH 002700A4002500E400E4002500A50027
DBH 0020002E007400040158008B00D1801A
DBH C00A009200290350035000290092C00A
DBH 801000A400150108016800D200458016
DBH 8016000500D001680168000800088016
DBH 8016001200440168016800B200258016
DBH 8016002A00AA0168016800F200258016
DBH 8016002B00EA0168016800F200258016
DBH 8016002A00E201680168000500958016
DBH 801000C8000B010803F000E40027C00F
DBH E0000018001807000F0003E0C007F000
DBH FF00E0000700FF00FF001F00F800FF00

SNAKESPR2

DBH FF00C0090FC0FF00FF0004208016FF00
DBH FF00002000A07F003F0000230026FF00
DBH FF00801700441F800F4000440013FF00
DBH FE00006400290720039000290088FC00
DBH F8010012004801C8010800900065F002
DBH E00400E800440370018000A900C7C009
DBH 801300800002000000CE00B400030027
DBH 004E0006001100310005008A007C005C
DBH 0058008100CA0071003A00DA00200041
DBH 00220054001100190021003000AA8014
DBH 8014005F00200052009C002000BE8014
DBH 8015005D0021012003A0004300BE8014
DBH 8014005400870F401F80000E0009C00A
DBH E0050002001D3F007F00003A00BCF002
DBH F80100020074FF00FF00010800FDFC00
DBH FE00000003F0FF00FF0007000200FF00

SNAKESPR3

DBH FF00FF00F000FF007F0060000000F800
DBH F8000000000F3F001F80009000FF007
DBH E008000000760F400720000600FFE00B
DBH E00B00FF007607A0072000060000E008
DBH F006000100700FC00380009000F8E005

DBH C00A0004004F0100001C003000AA8014
DBH 8011005500CC00640084003700FC0028
DBH 002900F90084001400B4008A00FD002B
DBH 0029007D008800340014003400A8002A
DBH 0029005500C700840064000C00A20024
DBH 801200040030001C0100004F00F88011
DBH C008000009003800FC000700000E006
DBH C0080000006072007A0007600FFC00B
DBH C00B00FF000607200FC000700000C008
DBH E00700FF00901F803F00000F0000F000
DBH F80000060007F00FF00F00FF00FF00

SNAKETAILSPPR

DBH F8002100CE001F000F008000000F000
DBH E00700DE003107E00310004E0021C008
DBH 801200CE009001280054003A00A60025
DBH 002B00700001006400B400E700E70020
DBH 801100DF00F700D401E800E300A78012
DBH 0021004300C900E40044009C00B10028
DBH 002C00B9003D001400B4007B005A0024
DBH 801000A400F701A8039000EF0059C008
DBH C008002300DF039001A800A700038010
DBH 00280015004300B4001400B1000A002C
DBH 0024000400B9004400E4005A00018010
DBH C008008000A501C800B4005B00608010
DBH 002000F00001006400D40000000780023
DBH 801500A6003100A4014800B800CEC00A
DBH E00400310046031007E0003900CEF003
DBH F80000080000F001F00C6003100FC00

TAILATR

DBH 46464646
DBH 460F4F46
DBH 460F0F46
DBH 46464646

SNAKATR

DBH 46464646
DBH 460D0D46
DBH 464D4D46
DBH 46464646

DBH 46464646
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DBH 460D4D46
DBH 46464646

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DBH 460D4D46
DBH 460D4D46
DBH 46464646

DBH 46464646
DBH 464D0D46
DBH 464D0D46
DBH 46464646

,*****

BADDYCLIMB81

DBH FF00FF00FF00FF00FF00F900FF00FF00
DBH FF00FF00C0007F003F008006F100FF00

DBH FF00C00000351F803F000029801FFF00
DBH FF00002000901F803F0000410040FE00
DBH FC00004000481F803F0000410040FC00
DBH F8000040007A7F003F0000C50021F000
DBH E00700BF00327F003F0000B900E3C008
DBH 8013007F00F93F003F0000F100FF0027
DBH 0027007F00827F00FF0000C4007F0023
DBH 801000EE01E8FF00FF0000310001F002C
DBH 0022007F03D0FF00FF00007200080801D

BADDYCLIMB82

DBH FF00FF00FF00FF00FF00FF00F100FF00
DBH FF00C000FF00FF00FF007F00803EFF00
DBH F30000413300FF00FF0000800080C000
DBH 800C0080008C7F003F00008B00800034
DBH 0050008000821F803F00003900418026
DBH 0048003E00441F803F0000B200A30013
DBH 0027007F00F93F003F0000F900FF0027
DBH 0023007F00B13F007F0000C2007F8010
DBH C00C00EE00ECFF00FF0000110001FE002
DBH F001007F03D0FF00FF0000300000FC00

BADDYCLIMB83

DBH FF00FF00FF00FF00FF00FF00E700
DBH 8000FF00FF00FF00FF007F001000018
DBH 006B0000FF00FF00FF007F00007C8025
DBH 004200823F00FF00FF001F0000018021
DBH 004500010F00FF00FF0000F0000010021
DBH 801700010700FF00FF000030000820028
DBH 8013007E0178FF00FF00008400A20027
DBH 0027007F00827F003F0000F900FF0023
DBH 8010007F00F93F003F0000B1007FC00C
DBH E00200EE00C27F003F0000D001FF002
DBH F801007F00D13F007F00000E0080FC00

BADDYCLIMB84

DBH FF00FF00FF00FF00FF00FF00F100FF00
DBH FF00C000FF00FF00FF007F00803EFF00
DBH F10000412300FF00FF0001800080E000
DBH C00E0080009CF007F0000A200808011
DBH 0021008000A13F003F00005900410026
DBH 8008003E00047F007F0000B200A38013
DBH 0027007F00F93F003F0000F900FF0027
DBH 0023007F00B13F007F0000C2007F8010
DBH C00C00EE00ECFF00FF0000110001FE002
DBH F001007F03A0FF00FF0000F000080FC00

PRTBLADE LD A,D:AND \$F0:LD D,A:CP \$70:JP NC,NEXT1
LD A,(POS):LD HL,BLADESPR1:AND 1:JR Z,BLADSP
LD HL,BLADESPR2

BLADSP PUSH BC:PUSH DE:LD BC,\$030C:CALL MASKCXB:POP DE
LD HL,BLADEATR:LD BC,\$0202:CALL BAXATR
POP BC:JP NEXT1

BLADEATR DBH 00000072

BLADESPR1

DBH FF00C100FF00FF00801CFF00FF000022
DBH 7F007F000042FE00FC0000827F003F00
DBH 0083F801F002003C1F800F4000C3C004
DBH 800500FF07A003B000E70039004200CB
DBH 01480044008500420022008100420042
DBH 00C38012C00900E700BC01A000FFE005
DBH E00400C303401F80003CF002F8010083
DBH 3F007F000082FC00FC000084FF00FF00
DBH 0188FC00FE000370FF00FF000700FF00

BLADESPR2

DBH FF00FF00FF00FF00FF00F800F0004300
DBH FF000F000000E007C00800BC070003F0
DBH 0043C008C008003C0108010800DBC008
DBH C009008D039007A0007EC009801300E7
DBH 03D003D000CB8013801300C303D003D0
DBH 00E78013C009007E07A007A000BD8011
DBH 002000DB07200720003C0020801F0080
DBH 07200720007EC000E00000010F401F80
DBH 8000FF00FF00FE003F007F00FF00FF00

LEVEL8END

L8CHRS

DBH C160B071B265C205800C1E8EC460E273
DBH 0261B85CBC58B870F7E2C01C2E5E2E18
DBH EF470338747A741840861D3A3D1A1D0E
DBH 0040E3F7E647020067D1A050A74E8D1E
DBH E68B050AE572B1780002C7EF67E24000
DBH B858B172E1C20502089CCCE1E3E763C0
DBH 10393387C7E7C6031D1A8D4E8743A040
DBH 01307871230647CE83060D8E4DA643A0
DBH 83110838787831828002000801C8E2F0
DBH 00000020080000082C0640EC78076B85B
DBH C0EC463238582295080000002002180
DBH 00076FC2B87DB87006CC8230BD78B871
DBH EF470338140A240040861D3A3D1A1D4E
DBH 090001008060B070000002248A040200
DBH C04F9F3F7F7FD7AA600F9FCFC54A85
DBH 950A01812E0011004080100720821000
DBH 352280CEE7E7A3250201F2383C8C968E
DBH 42458101239C2102968A840418E01000
DBH E0CF9F3F7F7FD7AA950A01812E001100
DBH 4080100720821000E0CC9F3F7F7FD7AA
DBH 0003078281C04080950A01802E001100
DBH 4080000020821000040C040C040C040C
DBH 00000000000000000000000000000000
DBH 0000AA55000000000000000000000000
DBH 00003F212D292129000000007F7F7F7F
DBH 2121213F800000000000000000000000
DBH 00000000D4AD5EA00FF00000000000000
DBH FFFFFFFF00FF8C8CFFFFFFF00FF6363
DBH FF0000AA55AA55A000000000000000000
DBH F7FBFDFE00FEC6C6FE0000A245A245A2
DBH 007F0000000000000000000000000000
DBH 00F10E60FFFFFFF2323110811234743
DBH FFFFFFFF000000000000000000000000
DBH C488C4C4C48810882323474320180700
DBH FFFFFFFCB00E41B00000000000000000
DBH C8C4C422028478000000002000000000
DBH 10000000000000000000000000000000
DBH 00FFFFFF000000000000000000000000
DBH 2121213F00BDFE007F7F7F7F7F7F7F7F
DBH FFFFFFFF7FBDFEF007F7F7F7F7FBDFEF
DBH 00FF000000BDFEF007F7F7F7F7F7F7F7
DBH 00000000000000000000000000000000
DBH 00800000410000080042001000010820
DBH 00000400010000080008000001400440
DBH 0220000090200200000001000000820
DBH 0008000001400400

L8ATRS

DBH 460646060646064606460606460646
DBH 464647464647464606464646464646
DBH 06460606460606464606064647460646
DBH 474646460646464646464646460606
DBH 060606060606064747464646464646
DBH 4646460646464646464646

L8BLOX

DBH 36373838393A38382B522B2D532B2E2B
DBH 30313233343035323D3E3F403E414042
DBH 3F404344404245462728292A20212223
DBH 241D25262B2C30312C2B34300C0D0E0F
DBH 1215161718191A1B1C1D1E1F00011011
DBH 00010203040506074712131412151314
DBH 15121617525352534C3C4D4E35322F2F
DBH 4F4A4D4E323C2F2F50324D4E15121314
DBH 08090A0B514B2F2F4A4B2F2F48494954
DBH 585556575259565A

L8MAPX

L8MAPY

DBH 1423
DBH 24252525060725242523152023252425
DBH 250809252425230F1423242525240203
DBH 25242523152023242425250203252425
DBH 230F1423252424250203252524231520
DBH 23252425240203252524230F1316181F
DBH 181F04051017101711120B0C0B0C0B0C
DBH 0B0C0B0C0B0A19020319020319020319
DBH 02031919020319020319020319020319
DBH 19020319020319020319020319190203
DBH 19020319020319020319190203190203
DBH 19020319020319190203190203190203
DBH 19190203190203190203190203191902
DBH 03190203190203190203191902031902

```

DBH 03190203190203191902031902031902
DBH 03190203191902031902031902031902
DBH 03191902031902031902031902031919
DBH 02031902031902031902031919020319
DBH 02031902031902031919020319020319
DBH 020319020319020319020319020319
DBH 19020319020319020319020319190203
DBH 19020319020319020319190203190203
DBH 19020319190203190203190203190203
DBH 19190203190203190203190203191902
DBH 03190203190203190203191902031902
DBH 03190203190203191902031902031902
DBH 03190203191902031902031902031902
DBH 03191902031902031902031902031919
DBH 02031902031902031902031919020319
DBH 020319020319020319190D0E190D0E19
DBH 0D0E190D0E19221A1B1C1D1E211A1B1C
DBH 1D1E2100010001000100010001000100

```

L8END

ENDF

```

;*****
; ** END OF FILE **
;*****
;*****
; ** LEVEL 9 STUFF ( DATA , SPRITES AND PROGRAMMING ) **
;*****

```

```

IFLB STARTLEV=9
ORG LEVELDATA

```

LEVEL9DATA

```

DB $A0,$60+FLOROF ; HERO X,Y
DB $8C ; MAPX
DB $10 ; MAPY
DB 0 ; 0=SCROLL L/R - 1=SCROLL U/D
DB $FF,$FF ; WEAPON ROOM X,Y INIT
DW $0000 ; DOOR XY
DB $E6,$00 ; RIGHTMAX,DOWNMAX
DB $FF,$FF ; SETUD,SETLR
DW FLOOR9 ; FLOOR BLOCKS
DW WALL9 ; WALL BLOCKS
DB $FF,$FF ; LADDER BLOCKS - $FF,$FF - $FF,$FF
DB $6E ; CRAWL ON BLOCK
DB $FF,$FF ; SLIDE UP
DB $FF,$FF ; SLIDE DOWN
DW LEV9BADX,LEV9BADX2 ; LEVEL BADDY INITX X,EXTRA X
DW LEV9BADDY ; LEVEL BADDY INITX Y
DW L9CHRS ; CHRS
DW L9ATRS ; ATRS
DW L9BLOX ; BLOX
DW L9MAPX ; MAPX
DW L9MAPY ; MAPY
DB 96 ; MAPXMAXSIZE

```

```

CALL PRTBRAIN:CALL PRTFACES:CALL PRTSTARS:RET
JP RESETLEV9BAD
JP SMOFFACES
WAPTABLE9 DB $00,$0,$00,$0,$00,$0,$00,$0,$00,$0
JP KILLBRAIN ; KILL BIG
JP INITBRAIN ; INIT BIG 1
JP INITFACES ; INIT BIG 2
JP RETURN ; INIT BIG 3
JP RETURN ; INIT BIG 4

```

;*****

```

RESETLEV9BAD XOR A:LD (ISBIGON),A:LD (PRTBRAIN+1),A
LD (PRTSTARS+1),A
LD (PRTFACES+1),A
LD HL,WORMDATA:LD DE,WORMDATA+1:LD BC,NOWORMS*WORMLEN-1
LD (HL),A:LDIR
LD HL,FACEXYS:LD DE,FACEXYS+1:LD BC,NOFACES*5-1
LD (HL),A:LDIR
RET

```

FLOOR9 DB 1+3+1
DBH 01
DBH 090003
DBH 6E

WALL9 DB 2+1+1
DBH 0807
DBH 13
DBH 02

LEV9BADX DB \$FF,\$FF ; END OF DATA
LEV9BADY DB \$FF,\$FF ; END OF DATA
LEV9BADXZ DB \$70,\$FE ; FACES
DB \$6A,\$FE ; FACES
DB \$64,\$FE ; FACES
DB \$5E,\$FE ; FACES
DB \$58,\$FE ; FACES
DB \$52,\$FE ; FACES
DB \$4C,\$FE ; FACES
DB \$46,\$FE ; FACES
DB \$40,\$FE ; FACES
DB \$3A,\$FE ; FACES
DB \$34,\$FE ; FACES
DB \$00,\$FF ; BRAIN
DB \$FF,\$FF ; END OF DATA

INITBRAIN XOR A:LD (PRTFACES+1),A
INC A:LD (PRTBRAIN+1),A:LD (ISBIGON),A
LD A,4:LD (BRAIND+1),A
LD DE,\$0000:LD (BRAINX+1),DE
LD A,\$40:LD (BIGHTS),A
LD A,31:LD (DZSB+1),A
LD A,6:JP PLAYMUSIC

BIGBRAIN LD DE,(BRAINX+1):LD D,\$28
LD A,(BRAIND+1):ADD A,E
CP \$00:JR Z,DOSB:CP \$70:JR NZ,NOSB

DOSB LD A,(BRAIND+1):NEG :LD (BRAIND+1),A:LD A,E
NOSB LD E,A:LD (BRAINX+1),A

LD A,(WORMCNT+1):INC A:LD (WORMCNT+1),A:CP 4
JR C,NTWRM:XOR A:LD (WORMCNT+1),A
PUSH DE:LD A,E:ADD A,\$10:AND \$F8:LD E,A:LD D,\$38
CALL INITWORM:POP DE

NTWRM LD L,E:LD H,\$2F:LD (BIGX1),HL
LD HL,\$1F20:LD (BIGY1),HL
LD HL,BIGBRAINSR:JP BAXITA

DZSB LD A,23:DEC A:LD (DZSB+1),A:JP Z,DOSWB
CP 7:JP C,NOTWRM
AND 3:CALL Z,INITBRAYN:JP NOTWRM

PRTBRAIN LD A,1:OR A:RET Z
CP \$01:JR Z,BRAINX
CP \$20:JP Z,ALLBRAN
CP \$20+1:JP Z,BIGBRAIN
CP \$41:JP Z,SEQUENCE
INC A:LD (PRTBRAIN+1),A

LD DE,(BRAINX+1)
CP \$20:PUSH AF:CALL C,PHEAD:POP AF:CALL NC,PBRAN
CALL RAND:LD DE,(BIGX1):LD A,(BIGY1):LD D,A
LD A,(RND1):AND \$3F:ADD A,E:LD E,A
LD A,(RND2):AND \$3F:ADD A,D:LD D,A
JP INITEXP

PBRAN LD D,\$28:LD HL,BIGBRAINSR:JP BAXITA
PHEAD PUSH DE:LD A,E:ADD A,\$18:LD E,A:LD A,D
GOBY ADD A,\$40:LD D,A:LD HL,BRAIN2:CALL BAXITA:POP DE
PUSH DE:LD HL,BRAIN1:CALL BAXITA:POP DE
PUSH DE:LD A,E:ADD A,\$10:LD E,A:LD A,D:ADD A,\$40
LD D,A:LD HL,BRAIN3:LD BC,\$0308:CALL MASKCXB:POP DE
RET

```

BRAINX      LD DE,$0000:LD A,E
BRAIND      ADD A,$04:JP Z,DZSB:CP $70:JR NZ,NOSWB
DOSWB       LD A,(BRAIND+1):NEG :LD (BRAIND+1),A:LD A,E
NOSWB       LD E,A:LD (BRAINX+1),A

WORMCNT     LD A,0:INC A:LD (WORMCNT+1),A:CP 7:JR C,NOTWRM
XOR A:LD (WORMCNT+1),A
PUSH DE:LD A,E:ADD A,$40:AND $F8:LD E,A:LD D,$40
CALL INITWORM:POP DE:LD A,23:LD (DZSB+1),A

NOTWRM      CALL PHEAD

LD A,(DZSB+1):CP 23:LD A,0:JR NZ,EDSZ
LD A,(POS)
EDSZ        RRA :AND 7:LD C,A:LD B,0:LD HL,GOBYS
ADD HL,BC:LD A,(HL):LD (GOBY+1),A
LD L,D:ADD A,$2F:LD H,A:LD (BIGY1),HL
LD L,E:LD H,$47:LD (BIGX1),HL:RET

GOBYS       DBH 4038302828303840

ALLBRAN     INC A:LD (PRTBRAIN+1),A
LD A,$20:LD (BIGHITS),A:LD A,1:LD (ISBIGON),A
JP BIGBRAIN

KILLBRAIN   XOR A:LD (ISBIGON),A
LD A,(PRTBRAIN+1):INC A:LD (PRTBRAIN+1),A:RET

SEQUENCE    XOR A:LD (PRTBRAIN+1),A:CALL SETUPDOWN:LD DE,$0F00
UPDATLOP3   PUSH DE:CALL UPDATEY:POP DE:DEC D:JP P,UPDATLOP3
LD DE,$6818:LD (HEROX+1),DE:LD D,$58:LD (GUNX+1),DE
LD A,18:LD (HEROP+1),A:LD A,2:LD (GUNDIR+1),A

CALL RESETBAD:LD HL,0:LD (PRTBARRIER+1),HL

LD A,5:CALL PLAYMUSIC

CARRYRIGHT  LD A,(HEROP+1):INC A:AND 3:ADD A,16:LD (HEROP+1),A
CALL DOALLBACKBITS:LD A,(HEROX+1):ADD A,8:LD (HEROX+1),A
LD (GUNX+1),A:CP $B8:JR C,CARRYRIGHT

LD A,8:LD (GUNDIR+1),A

CARRYUP     LD A,(HEROP+1):DEC A:AND 3:ADD A,48:LD (HEROP+1),A
CALL DOALLBACKBITS:LD A,(HEROX+2):SUB 8:LD (HEROX+2),A
SUB $10:LD (GUNX+2),A:CP $D0:JR NZ,CARRYUP

LD A,$E8:LD (HEROX+1),A:LD (GUNX+1),A

LD B,16
CARRYUP2    PUSH BC:CALL SCROLLUP:POP BC:PUSH BC
LD A,B:CP 15:JR NC,NOTYETOK:CP 15-4:JR C,NOTYETOK

LD HL,PEOPLETAB:LD A,(SAVORS):LD C,A:LD B,6
SKPLP       RR C:JR C,SKPY:LD DE,BACKATR2
LD A,(HL):ADD A,E:LD E,A:ADC A,D:SUB E:LD D,A
PUSH BC:INC HL:LD B,(HL):DEC HL:LD A,8166
SKPAS       LD (DE),A:INC DE:DJNZ SKPAS:POP BC
SKPY        INC HL:INC HL:DJNZ SKPLP

NOTYETOK    CALL DOALLBACKBITS:POP BC:DJNZ CARRYUP2

LD A,1:LD (PRTSTARS+1),A
LD HL,STARXYS:LD DE,STARXYS:LD B,6
LD A,(SAVORS):LD C,A
SAVBLP      LD (HL),0:INC HL:LD (HL),$40-4:DEC HL
RR C:JR C,NASTAR
LD A,(DE):LD (HL),A:INC HL:INC DE
LD A,(DE):LD (HL),A:DEC HL:DEC DE
NASTAR      INC HL:INC DE:INC HL:INC DE:DJNZ SAVBLP

LD B,128
FLYINGSTAR  PUSH BC:CALL DOALLBACKBITS:POP BC:DJNZ FLYINGSTAR

LD B,250:CALL BFLY
LD B,250:CALL BFLY

LD A,NXTLEV:LD (RETMODE),A:RET

PRTSTARS    LD A,0:OR A:RET Z

```



```

LD IX,STARXYS:LD B,6
PRTSTARBLP LD A,(IX+00):SUB 4:LD (IX+00),A:LD E,A
LD A,(IX+01):ADD A,4:LD (IX+01),A
CP $B4:JR Z,NZT:CP $48:JR C,NARTY
JP M,NARTY
NZT LD A,$B0:LD (IX+01),A
NARTY LD D,A:INC IX:INC IX:RES 2,D:PUSH BC
LD A,(POS):AND 1:LD HL,STAR1:JR Z,FMRADIO:LD HL,STAR2
FMRADIO LD A,D:CP $70:LD BC,$0208:CALL C,MASKCXB
POP BC:DJNZ PRTSTARBLP:RET

STARXYS DS 6*2,0

STARXSY DW $D8B8,$D0E0
DW $E8C8,$E0F0
DW $F8D8,$F000

PEOPLETAB
DB 19,2 ; DAD
DB 17,2 ; MUM
DB 05,2 ; SIS
DB 04,1 ; BRO
DB 11,4 ; GRD
DB 01,2 ; GRN

BRAIN1 DB 10,8*8
DBH 00000707C3E0F1C00000000300E1B3C
DBH A8080000000135100E460C800000080
DBH F7E3C9A803670000000F86A751B3CFF0
DBH 400000A0C79FB3F1CE261000002385C5
DBH F1733F8FD00000103C1F67E081412700
DBH 00244918A6E78E73C80000F6EBC0C346
DBH 994C400000430D3A8D99E1D7F90080FC
DBH CF079C1D354C6700008726329B3F1F97
DBH FD4040FE8F7F7E3A7586A30001514272
DBH 74C67F97FEA0A0FE8B23986911002001
DBH 010FFF00C13319C7FEA0A0FECBBD67D8
DBH C0FFBF00017001E2BCCFBCC5FA0D0A9
DBH 62DCCFB9D1FEEF0205D0010173878060
DBH 53D0D0202F03406780AA2050B44414A
DBH 6662FF878720A0CFE37F0566A70E400B
DBH 0A919727B3AFF29FD0D03FF1FFF1BB
DBH 27D38A080A83DB23D30AFFE628A04017
DBH E77F55C6239BA90812540E25CD2003E7
DBH 01A0609ECBFC811BA6A04A214225554F
DBH 16470317A1A0400ABFA9C8359F001041
DBH 888FFF3E2B957459952090AF4DFEABAB
DBH 6C00408492140011DB1FFF1E5FD0E87F
DBH 2FFF3FD70B00008D968100C1B65FF39F
DBH 7E4808BC4FE1BFB4E242D04F97E82571
DBH 2A2FE557AC9010965BF2DA14B812F48A
DBH 853A09513025509BCB60A0D02FA3D841
DBH 83045D40402E800712E70C57E71048C0
DBH 7FF3F8110E4117201003A00492FB0E1F
DBH F2B4F4F90FFDF53970D151252A8AE019
DBH 1B0BFE6FFAF9AF9BFFC173269614147
DBH 4E9882C2720BF879FAFAF4F1B2FC9726
DBH A2091C578EB8175665CAE861E2F46818
DBH 1846A5E5862E00958E009D04CD503E96
DBH DA10E0EDB6FDE94D0C4A0A848C55A40C
DBH CB92FBB76D00006DBBE365CA14DAAB96
DBH 8F7E8019998BD9625D00000A08080596
DBH 280EFD978BEA31398880022C820000CD
DBH 76271010E924504542A04ED0E0000776
DBH CD0000D93603F0C2E757072018190EEB
DBH C80E066D920000C008000C00F27E107
DBH 45454545450646464646
DBH 47474747470646464646
DBH 4545454F064646464646
DBH 454F0F07050646464646
DBH 4D450505064747464747
DBH 454D4505060646464646
DBH 05054D06060646464646
DBH 45450606060647474747

BRAIN2 DB 6,6*8
DBH 8F0000410050D0802048E0C640620220
DBH 81A0A04120003023B7B0011043408046
DBH 10909859545900908680008D100818AA
DBH A53000208D00000D2101709288E01021

```

```

DBH 0D00002D420080413E00448A06808046
DBH 140100001300104A1340408204000013
DBH 130F03C02040C08022C4101226202814
DBH 4340A002921205274F0A854851D0A820
DBH A448979B918F87D004080400F8CB0784
DBH 6180A501341ACD7603D3C04B99E0E907
DBH 6E6DDA2E07F5F0899CF0E80684822A00
DBH 02F6788C9E3CFD30BCEDDD9E697F3E8F
DBH 979FA6F1DAD913C8F84AC74B47E3A67C
DBH 4787EF8E3BEF83232579EF1BDFE7CE
DBH 8F47FC1211FC83436D5529BAA022FE08
DBH 097E743C10018201DE61AE08095403EF
DBH 63C4D87BEF63A8040250E3C61DD090E8
DBH 10C5010100841A0F1020C00FF0E17B00
DBH 060646464646
DBH 060646464646
DBH 064242020747
DBH 455542574747
DBH 454506464646
DBH 050506064646

```

BRAIN3

```

DBH 0083008F1F000FE000C6009100460040
DBH 0F60073000238021C01E00B707B00398
DBH 0059E100FF0000540358031800AAFE00
DBH FE0000A5073007700092FE00FE000088
DBH 0FE01F800041FF00FF00803E7F00FF00
DBH C100FF00FF00FF00FF00FF00FF00FF00

```

BIGBRAINSR

```

DB 6,4*8
DBH 0C0003DDE000001B22ECC012292111C4
DBH 64804039F3E7165C9C9C7199BA020D7
DBH 4812C389439638CCC620D041E387B223
DBH 17232B9B1B10CC3C6C5C882220DC0E6E
DBH 7EA28D7E36A75024412053346EDDF96E
DBH 327B409393407B1F276299331F5B408B
DBH 45A0A63C707D9DE3910ED02118EE15C5
DBH C7E9E227CE0BEF204464839D3372A461
DBH 9A792B8A8D14843A6384487773A8386
DBH 43439C767E10603C36EC812110386C9B
DBH 118000829B09C0214E00239DC0000030
DBH CEC0064020391F00C0000000FFE0C01F
DBH 450606464606
DBH 060645464646
DBH 450606064646
DBH 454506060606

```

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```

INITBRAYN  PUSH DE:LD IX,WORMDATA:LD DE,WORMLEN:LD B,NOWORMS
INITBRAYNBLP LD A,(IX+WORMENG):OR A:JR Z,GOTBRAYN
              ADD IX,DE:DJNZ INITBRAYNBLP:POP DE:RET
GOTBRAYN    POP DE:LD (IX+WORMX),$30:LD (IX+WORMY),$40+$80
              LD (IX+WORMENG),4:LD (IX+WORMGRAV),0:RET

INITWORM    PUSH DE:LD IX,WORMDATA:LD DE,WORMLEN:LD B,NOWORMS
INITWORMBLP LD A,(IX+WORMENG):OR A:JR Z,GOTWORM
              ADD IX,DE:DJNZ INITWORMBLP:POP DE:RET
GOTWORM     POP DE:LD (IX+WORMX),E:LD (IX+WORMY),D
              LD (IX+WORMENG),1:LD (IX+WORMGRAV),-4:RET

PRTWORMS    LD A,(PRTBRAIN+1):CP $22:RET NC
              LD IX,WORMDATA:LD B,NOWORMS
PRTWORMSBLP LD A,(IX+WORMENG):OR A:JR Z,NXTWORM:PUSH BC
              LD A,(IX+WORMX):RRA :AND 3
              LD HL,WORMSPR:LD DE,$60:CALL MULT
              LD D,(IX+WORMY):LD A,D:CP $F0:JR Z,NZTGND
              OR A:JP M,GOBRAIN:JR NOTGND
NZTGND      LD D,$60
NOTGND      LD E,(IX+WORMX):LD BC,$0308:PUSH DE:CALL MASKCXB:POP DE

              LD A,D:ADD A,4:LD D,A
              LD BC,$0F17:CALL ISBULORHERO:POP BC
              LD A,(IX+WORMENG):OR A:JR Z,NXTWORM

              LD A,(IX+WORMY):CP $60:JR C,STWORMY
              CP $F0:JR Z,ONGROUND
              LD A,(HEROX+1):CP (IX+WORMX):CCF :LD A,0:ADC A,A
              ADD A,A:DEC A:ADD A,A:LD (IX+WORMGRAV),A
              LD (IX+WORMY),$F0:JR NXTWORM

```

```

ONGROUND      LD  A,(IX+WORMX):ADD A,(IX+WORMGRAV):LD (IX+WORMX),A
               CP  $E8:JR C,NXTWORM:LD (IX+WORMENG),0:JR NXTWORM
STWORMY       LD  A,(IX+WORMY):ADD A,(IX+WORMGRAV):LD (IX+WORMY),A
               INC (IX+WORMGRAV)
NXTWORM       LD  DE,WORMLEN:ADD IX,DE:DEC B:JP NZ,PRTWORMSBLP:RET

GOBRAIN       LD  A,D:ADD A,8:LD D,A:CP $D0:JR C,NOTBOTB:LD A,$D0
NOTBOTB       LD  (IX+WORMY),A:AND $78:LD D,A
               LD  A,(IX+WORMX):ADD A,4:LD (IX+WORMX),A:LD E,A
               CP  $E8:JR C,KOFZ:LD (IX+WORMENG),0:POP BC:JR NXTWORM
KOFZ          PUSH DE:LD HL,BRAINSR:LD BC,$0410:CALL MASKCXB:POP DE
               PUSH DE:LD BC,$0404:CALL BAXATR:POP DE
               LD  BC,$1F1F:CALL ISBULORHERO:POP BC:JR NXTWORM

```

```

NOWORMS       EQU 16
WORMX         EQU 0
WORMY         EQU 1
WORMENG       EQU 2
WORMGRAV      EQU 3
WORMLEN       EQU 4

```

```

WORMDATA      DS  NOWORMS*WORMLEN,0

```

```

WORMSPR

```

```

DBH F0008F00FF00FF000770E00FC00F03B8
DBH FF00FF0001BC8037803B017CFF00FF00
DBH 813C007C017C803AFF00FF00C006813C
DBH C104C11CFF00FF00813CC118C01E8338
DBH FF00FF000360C01E802E011CFF00FF00
DBH 007E813403788036FF00FF00C10C8730

```

```

DBH FF00FF00FF00FF00FF00FF00FF00FF00
DBH FF00FF004F00FE00FC0107B0FF00FF00
DBH 03D8F803F80303D8FF00FF0001DC005
DBH E00E00DEFF00FF0001BCE00EE00F401A
DBH FF007F00E007C0168138E00F1F000FE0
DBH E00E005E016CF005FA01FC0F8038330

```

```

DBH FF00FF00FF00FF00FF00FF00FF00FF00
DBH FF00FF00FF00FF00FF00FF00FF00FF00
DBH FF00FF00FF00FF00FF00FF00FF00FF00
DBH FF009300FF00FF00006CFE00F80100EF
DBH 3F0017C000F6D005802E00F601E800EE
DBH 00E500760077180100DA013CFE008034

```

```

DBH FF00FF00FF00FF00FF00FF00FF00FF00
DBH FF00FF00E400FF00FF00C01B7F003F80
DBH 803DFF00FF00803D3F801FC0005DFF00
DBH FE0000ED0FE01FC000EBFE00FE0004F1
DBH 0FA007700E60FC01F8031E8001F000EE
DBH 0EE0F005F0061FC0005A813C3F00F803

```

```

BRAINSR

```

```

DBH FF00801F03F0FF00FF00000C0060FE00
DBH FC01008600737F003F80000C0033F802
DBH F00400900C91F400FA000C200CCE008
DBH E008002D009907D007D00740026C013
DBH C0110060006A03680368008600C68024
DBH 802600060023032801840071004F8024
DBH 802000CB00350114007A00B600A68024
DBH 004900E4006E00BA0062006C00510059
DBH 00480080000500CA009A0001001C005C
DBH 004D00390031003D006D0070002B0088
DBH 00A1009600E60075002500CC00C60080
DBH 00A900A0009500810091002900E10088
DBH 009500500073003A002200330021008A
DBH 004500800086005201A400E000A00042
DBH 8020004500590388073000AE0003C018
DBH E00700000000FC03F0000FF00FF00FF00

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DBH 06064646
DBH 06064646
DBH 06064646
DBH 06064646

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INITFACES     LD  DE,$00F0:CALL ADDFACE:LD DE,$28F0
ADDFACE       PUSH DE:LD IX,FACEXYS:LD B,NOFACES:LD DE,5

```

```

FINDFACE      LD  A,(IX+02):OR  A:JR  Z,GOTFACE
              ADD IX,DE:DJNZ FINDFACE:POP DE:RET
GOTFACE       POP DE:LD  (IX+00),E:LD  (IX+01),D:LD  (IX+02),$06
              LD  (IX+03),0:LD  A,R:AND 7:LD  (IX+04),A
              LD  A,1:LD  (PRTFACES+1),A:RET

PRTFACES      LD  A,0:PUSH AF:CALL PRTWORMS:POP AF:OR  A:RET  Z
              LD  IX,FACEXYS:LD  B,NOFACES
PRTFACESBLP   PUSH BC:LD  A,(IX+02):OR  A:JP  Z,SKPFACE
              LD  A,(IX+03):LD  HL,FACE1:OR  A:JR  Z,FART2
              LD  HL,FACE3:CP  2:JR  Z,FART2:LD  HL,FACE2
FART2         LD  E,(IX+00):LD  A,(FACEY):ADD A,(IX+01):LD  D,A
              CALL BAXITA:DEC (IX+04):JP  P,HART:LD  (IX+04),7
              LD  A,(IX+03):INC A:AND 3:LD  (IX+03),A
HART          LD  A,(POS):AND 7:JR  NZ,NAFI
              CALL RAND:LD  A,(RND1):AND 3:JR  NZ,NAFI
              LD  A,(IX+00):ADD A,$18:LD  E,A
              LD  A,(FACEY):ADD A,(IX+01):ADD A,$18:LD  D,A
              LD  A,(RND2):AND 3:CP  3:JR  C,AK:LD  A,1
AK            ADD A,3:LD  B,4:PUSH IX:CALL INITBAL:POP IX
NAFI          LD  A,(IX+00):ADD A,$10:LD  E,A
              LD  A,(FACEY):ADD A,(IX+01):LD  D,A
              LD  BC,$2717:CALL ISBULORHERO
              LD  A,(IX+02):OR  A:JR  NZ,SKPFACE
              LD  A,(IX+00):ADD A,$08:LD  E,A
              LD  A,(FACEY):ADD A,(IX+01):LD  D,A
              PUSH IX:CALL INITEXPNO:POP IX
SKPFACE       POP BC:LD  DE,5:ADD IX,DE:DEC B:JP  NZ,PRTFACESBLP
              LD  DE,(FACEY):LD  A,E:ADD A,D:LD  E,A
              CP  $30:JR  C,NOTSTRAY
              LD  A,(FACEY):LD  E,A:LD  A,D:NEG :LD  D,A
NOTSTRAY      LD  (FACEY),DE:RET

SMODFACES     LD  IX,FACEXYS:LD  B,NOFACES:LD  DE,5
SMODFACEBLP   LD  A,(IX+02):OR  A:JR  Z,SKPSMODFACE
              LD  A,(IX+00):ADD A,1:LD  (IX+00),A
              CP  $F0:JR  NZ,SKPSMODFACE:LD  (IX+02),0
SKPSMODFACE   ADD IX,DE:DJNZ SMODFACEBLP:RET

NOFACES       EQU 12

FACEY         DB  0
FACED         DB  2

FACEXYS       DS  NOFACES*5,0

FACE1         DB  6,5*8
              DBH 30F063CF002C943F3E3D0C6748031E78
              DBH C062900F6186E01027F841823FE8F45F
              DBH C422FC2F5FFA15E83FF4FA5FC003FE5F
              DBH 5FBD07E03DFAFA7FD00BFE5F2FFE27E4
              DBH 3FF4F40BF24BEC1709D197ED95C83060
              DBH F60B060601F8D7EF1FC008C0F76B0310
              DBH 21FFF5EFFE0804FFF7EBFF2321FEB7ED
              DBH FE84045FFA637D2110AAD5FD0A8808E1
              DBH FEA351100807A3F6FE0890FFE6A1BF08
              DBH 097E100C3F5090560308F80810760007
              DBH AB1088F60700CE10211F003BF30804F9
              DBH 7D00BF20213A52DEDC84440D8FE17022
              DBH 213060060E84441E00005822113C300C
              DBH BC8808191E78981008413C3C82102055
              DBH F99FAA0404550FF0AA20405408102A02
              DBH 575756565757
              DBH 475756565747
              DBH 440646564646
              DBH 044E46465746
              DBH 044446464646

FACE2         DB  6,5*8
              DBH 6739EB979CE613602E7506C89181BA5D
              DBH 8189E60F7A5EF0672FF82E741FF4FA3F
              DBH A815FC5F5FFA03C05FFAFA3DC00BBC5F
              DBH 5F1C05D038FAF47DA003BE2F2FFC05D0
              DBH 3FF4E85FB003FA170BD415E82BD02014
              DBH C6632804130785D1E0C8141FEC22F820
              DBH 4002D3EF0022C1EAEF655F858BFEC3F3
              DBH FFE1E1BFFD25FF874BFF43FE55C2828A
              DBH F643FD4522A341E6E14408FC0D200E10
              DBH 09641003469048B90E00C01321B0001D
              DBH 7CA442FE3E007C47477C02B96EA2D2C6

```

DBH 0600F68E96E300BF276151637001C88D
DBH 9D9A20076961D120773B838D95013766
DBH 00E142036407908D44DA00000762C466
DBH 00B0EB4A26738FE34EA4481D7BBC3913
DBH 475716565747
DBH 475756565747
DBH 440646564646
DBH 440606464646
DBH 440657574746

FACE3

DB 6,5*8
DBH 480175AE800289035DBAC09127F85C7A
DBH 1FE4F23D742EBC274FBE2C343DFAFA78
DBH 88111A4F4C4703C0623AF4F8C8051E2F
DBH 27BD03D07DF4E8FDA005BE1713FD03D0
DBH 7FE8D0BF005EA09041023E45F28C400
DBH C3C58013207F00D8FF224100EE230041
DBH 85F2D5EFFEA1D1FFF343FF8B87FEA5FD
DBH 7FA2C2AFFE43FE4B46F941F615440883
DBH E6414321100F200CF01008E401103E30
DBH 414400039E24527F0F00B0938F78001E
DBH F3B18961B902FC1E2EEE0006C994880D
DBH BF40E31D35C180386CD4C86C0320165B
DBH 3B3333B608488403B37015B3B800730
DBH 001488000000A01B2DB0000000D1C119
DBH 0000D29D4CE700003392028701307726
DBH 575716565757
DBH 475756565747
DBH 040646464646
DBH 040647465746
DBH 040607474746

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LEVEL9END

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L9CHRS

DBH 908B03737073030B0939404F47474038
DBH 0000000000000000909090909090909
DBH 908B938B908B938B009385A305A39580
DBH 00F8F6FAF6FAF4002C2C2420118C6211
DBH B4B4A4840831428CC0999C84C1404D5C
DBH 039D3D3103821ABA470A0582609867F8
DBH 3F736561339F47A37EBFDF0BF0FEFEFC
DBH D2A44488176890224B25A211E8160944
DBH 454B878B45232523A2D2E1D1A2C5A5C5
DBH E250A8410619E71EA21202C131C80778
DBH 7CFDFBFBFD7F7FBFFCCEA686CCFAE58A
DBH 454840838C13E01CC09E8E80CD4C5D40
DBH 033D1D011B9A3A8258A0438F1C183132
DBH 140AC4F238D86CEC013231181C8F43A0
DBH 70EC6CD839F1C2052543458B978B978B
DBH A5C2E2D1E9F1E9F1472B25222522910C
DBH E2D4A5C4A5C48932A3B3B9B99D888193
DBH 8B9189958894889510998FCE05F3EAF5
DBH E3F3F939DDE8F173FCFAFCFAFCFAFCFA
DBH BB795D3D1C3C1C390909090904020100
DBH 8993C7EFEF3502FCFCFAFCF4E8F0A841
DBH 1933276F4F852250000000101020202
DBH 3B459D3D397261630404040404090909
DBH E3C1C9D5C8948895012000000000880
DBH 000408001000040000000000001002
DBH 0000200008001000A993878F8F85C2A0
DBH 808303737073030B056A950A45A452E2
DBH 50A6499022A54A4701528C700204B4F4
DBH E41B0443A875F9520F50A34489102428
DBH F409C4221188A494075820C215AE9F4A
DBH 944A310E40202D2F0004004000000004
DBH 0000400020000000000004000001000
DBH 00002000000100000023054305432500
DBH E0F0F838DCE8F070B8785C3C1C3C1C38
DBH 183020604080000000F8F6FAF6FAF502
DBH E5F2F938DEAF170000000000200000
DBH 00000000000307071B3F5F97F20B4500
DBH 00010E3B7C1CCE9E1BFCFEBFD74F2287
DBH CDBEFFFFFBFD78AA3F0F968F0A4E0C0
DBH F8FD5EBFFF79FEFE0080D886E1F8FC7A
DBH FFFF7DDE6E08918F7FB699D73A408B06

DBH 00000000004020100000000000040000
DBH 58ECE1F2EFD87D000000000000402020
DBH 01081012E2022543412080200408042
DBH 456857FFDFEBC6B8B0DE27D006183E7
DBH 08361A7E2F371F8F050C000C5FFBE059
DBH 62715F2C85886BFCD28B95F76383329
DBH 0A04802093640BF0438658453FDDFDB
DBH D77FFFEFC7E2B1FEFCFEF77C9A2203
DBH 76B81E8703F9FF5E3F10900018BC0C84C2
DBH 5BE178D7E0E134122161E18392D1BC3
DBH DFF7AB8B1F8755B5ADF663762D07CFE5
DBH 543C2A291D140A0BB67FB85E0E06130F
DBH 5DAF192201CAE45184668BF6F3F1F7F
DBH 2241A3C865587FBE371F9DFBFFFFF
DBH E37721A49278FD0A8FA71373FBBD77F
DBH FEFAFCFDFBF8B3E477FDF873E788430
DBH 89F0E8FCFA8F8F4E5C36373B3121ABA
DBH FEFE7E3DBFFF9C947674642408ABD70
DBH 050402010000000045A2010A0703271B
DBH 0E06300000000000FFFF7FBFFFFF7F1F
DBH AF5F7FFF3F0F0100FFFFF7FFF7F1F
DBH F08010E29FFFFF001168F470F8DFEB
DBH FFFFFFFF7FFF8C5A3F7FFCF08000
DBH 400001110BA67CF860E0C08000000000
DBH B0E0C0000000000F8E79F75C2200000
DBH F9768FF7AA4100000000000000063FFF
DBH 00000000000000E0FF7FBF5FEF771B2B
DBH FFFFFFFF7FFF7F7F1407010000000039
DBH FF0F71B050103E70000000001070F3B
DBH 0000010307070F0FFFFFFF7FFF7FFF
DBH 0000077FFFFFFF0000E0FEFF7FFF7FFF
DBH FFFFFFFF7FFF7FFF00000000C0F0F8C
DBH 000080C0C0E0E0F0FFFFF7FFCFBE71
DBH C6B9460080C0E4FFDF3EE9D7EF2E440
DBH 00F1F1F1F3F3F3F3F3F1F1F1FDF6F
DBH F0F0F8F8F8F8FCFCFCFCFCF8F8F0F
DBH 808040B2C4D27FFF7FBFFD9FB76FFF
DBH 000000048A758EFF0000000000000000
DBH 8778B71FE0F02D501FFFFF3FD0FEFF7F0
DBH 0CA3571328E0100C639DA21881404288
DBH D07A3D1F0F010000F0EF5B85400FDA24
DBH F02FDB35400FDA24080042F1FFFF1F00
DBH 0001133FFFE0008CA2561228401208
DBH 831EFCFC000000068A0D9E08FFFFF
DBH 0000000000F0EFFF00000000000207FF
DBH FBD5AF43040000000F7FBFCBF132200
DBH 000000003077FFFFF7F7FF7FBAB003
DBH 03070F1FFFFFFF7FFFEE058BAE7540
DBH FFFFFFFF8F0E0A0F0E0D0C0A0A0800
DBH FFFFFFFF3F1F5FA6F2F5F2F17170B
DBH FFFF385030D18BD3C8581840E050385
DBH FEFD0CFAFA8FCDFDFFE140AE91020100
DBH 86010000000000027BFBF0972010019
DBH D7AF9324C3E0F0CFFCFCAF5F0E0E0F0
DBH FF3DF2F4F17070FF8860A050402020
DBH 1E2116000000050BFFFFF7FFCBES321
DBH 830F2F53F7F7FFFFF7FAF0AF04F4F8
DBH FAF8F5E8D0A082CF3F1F0F0F0F0F0
DBH 1F170BE303030303FFFFFEFD0CFAFA
DBH FFC381A050B871918B43850200020202
DBH 008080C0C2C2C0C0500240201071727
DBH 1272F17FFFF3F5FC3D050200048720
DBH C282818080C1E2E18185C1C793931512
DBH C0081E0E44CC4CAF4FFF7FBFF7FFF7F
DBH FEFFFEFEFEFEFC8BF87FBFFBF7F3F
DBH FCF8F8F8F1F1E0E00103050505020F0
DBH 505059B978305010FFFF7F7F7F52F0F
DBH D0C0E8E8D0D0A019B07F2F717170B
DBH 40A0C0E2E0C2A2800509071783895841
DBH FDFCFAFAF4F4F4E8E8E0F0DFD0FDF0E8
DBH 070F17170B0B0501E8A02294FEFFFFFF
DBH 0200010F0F0F0F0F020408401414541
DBH 454121A3A3A3C303040C040C040C040C
DBH 0583458A158B150AFFFFF7FFF7FFF7F
DBH A367CB87B8970B05F7FFFFF7FFB5CA
DBH 5201C2F5F8CEFCFADAA0478B150F1F
DBH 172F1F2F178F95A007CFAFDFA4E8F2
DBH E00002152F5F2FDFE5D3E5CA85CB950FA
DBH FBF5FAFCFAF4E83248002E578F75F
DBH 5528B245A0508271FFFFFD7AB1583C

DBH 00000000000030F00000000080C0E0
DBH C5CDC5CDC5CDC5DFFFFFFF005500FF
DBH C5CDC5CD050D05CD0B80C977FBF7FFA3
DBH 00D42A542A142000022854AA54AA5508
DBH 0308274F5DDF9F31

L9ATRS

DBH 43454745430545064603430746060505
DBH 04440707064605034306460646044404
DBH 444C4C4C0E4C0E45054C444545454C46
DBH 4646464C434545454506464545464646
DBH 46050606444506460707074F0F074F47
DBH 4F47474647470F070F0F0F0F4F4F4F
DBH 67674F474F4F070F070F0F6747476767
DBH 4F474F4F4F4707070747474F4F4747
DBH 474747464646464646467777777777
DBH 47777746464677777777467E46464646
DBH 777777777777777777464646464646
DBH 464646464646464646464646464646
DBH 464646464646464646464646464646
DBH 464646464646464646464646464646
DBH 464646474545454545454545454545
DBH 0545454547454747050547

L9BLOX

DBH 23242526242326252543294423422543
DBH 03222728010003040321032203330134
DBH 030401002B2C2D2E160B0C0D12131415
DBH 1D1E1F2002022F300202313217181718
DBH 292A0506292A3536292A3738292A393A
DBH 292A3B3C0202023D023E3F40191A1B1C
DBH 020202022526292A0E0F101141062324
DBH 050605060708090A4145234647482F49
DBH 4A4B4C4D4E4F50515253545556575859
DBH 5A5B5C5D5E5F60616263646566676869
DBH 6A6B6C6D6E6F70717273747576770278
DBH 796F7A7B7C7D7E7F8081820283848586
DBH 8788898A888888888888888888888888
DBH 91889092889394029502020296909790
DBH 909090909090909090909090909090
DBH 9C0295028384020287889D9E88889F88
DBH A0A188A2A3A4A5A6A1A7A88888A98888
DBH AA858888AB858888888888888888888
DBH 0202ABABACAD85AEAF88B0888888B183
DBH 888888949395858688B288B3B488B588
DBH 8888B6B7888888B8B988BABB888888BC
DBH BDBEBFC0C188C28888C388C4C588C6C7
DBH C888C988880288CACB88CC88CDECDFD0
DBH D1D2D3D4D588D6D7D8D9DADB88DC88DD
DBH DEDFE088E188E288E8E9E5EAECEDE5
DBH EEEFE4E5F0F1E6E702F2E4E5F302E6E7
DBH E302F4E502E3E5F4F5F5F4E5F5F6E5F4
DBH F7F7F8F9FAF7F8F823242526

L9MAPX

DBH 18180D181818181815181818180D1F
DBH 202122181818051C0F170C170F170C1C
DBH 0F170C170F170C1B1B1B1B1B1E1919
DBH 191919021818181818181818181818
DBH 181518181818181518181818181818
DBH 181816181818181818181818181818

DBH 18181818180D181818180D1818181823
DBH 242526151818061B1B1B1B1B1B1B1B1B
DBH 1B1B1B1B1B1E191919191919021815
DBH 181815181818161818181518181518
DBH 181818161818161818181818181815
DBH 181818181818180E18151818181818

DBH 18181818181818181818181818181627
DBH 28292A180D18041919191919191919
DBH 191919191902181815181818181818
DBH 18181618180E181618181818181818
DBH 151818181818180E18151818181518
DBH 181618181818181518181618181818

DBH 0D18180E18181818180D0E1818182B
DBH 2C2D2E181818181618180E180D0D1818
DBH 181618180D18181818181518181818
DBH 181818180E18151818181818181815
DBH 181816181818151818161818181818
DBH 18181818180E181818181818181818

```

*****
** MENU AND CHEAT ROUTINES                                     **
*****

```



```
*****
```

```
ORG MENUSTART
```

```
*****
;
; ** CHEATS FOR OCEAN'S GAMES TESTERS **
;
;*****
```

```
RJ0      LD (POL+1),HL
YYU      LD A,30:LD (TIM1+1),A
TIM1     LD A,30:DEC A:LD (TIM1+1),A:JP Z,HEREW
          EI :HALT :CALL KEYS
POL      LD HL,0:LD A,(HL):INC A:JR Z,GOTCHEAT
          INC C:CP C:JR NZ,TIM1:INC HL:LD (POL+1),HL:JR YYU
GOTCHEAT LD A,7:OUT (254),A:EI :HALT :XOR A:OUT (254),A
          INC HL:JP (HL)
```

```
CHEAT1   DB "I AM AN OCEAN GAMES TESTER", $FF
          CALL SPRINT:DB PRINK,7,PRCLS,PRSIZE,1
          DB PRAT,10,11,"HELLO...CHEAT",PRPAUSE,PRCLS
          DB PRINK,&105,PRAT,06,00,"MIDNIGHT RESISTANCE"
          DB PRINK,&106,PRAT,08,04,"OCEAN CHEAT MODE"
          DB PRAT,08,08,"1 INFINITE LIVES"
          DB PRAT,08,10,"2 INFINITE AMMO"
          DB PRAT,08,12,"3 WEAPON SELECT"
          DB PRAT,08,14,"4 KILLER SPACE",PRINK,&105
          DB PRAT,08,18,"0 EXIT CHEAT",PRINK,&104
          DB PRAT,05,22,"CHEATS DON'T USE DRUGS",PREOF
INFLOOP  LD A,(INFLIVES):LD HL,$5800+(08*32)+8:CALL SHOWLIGHT
          LD A,(INFAMMO):LD HL,$5800+(10*32)+8:CALL SHOWLIGHT
          LD A,(WEPSLECT):LD HL,$5800+(12*32)+8:CALL SHOWLIGHT
          LD A,(SPACEBARCHEAT):LD HL,$5800+(14*32)+8:CALL SHOWLIGHT
SHWLOP   LD A,$EF:IN A,(254):RRA :RET NC
          LD C,0
          LD A,$F7:IN A,(254):RRA :JR NC,SHW1
          INC C:RRA :JR NC,SHW1
          INC C:RRA :JR NC,SHW1
          INC C:RRA :JR C,SHWLOP
SHW1     LD HL,INFLIVES:ADD HL,BC:LD A,(HL):CPL :LD (HL),A
          CALL WAITNOKEY:JR INFLOOP
```

```
SHOWLIGHT LD DE,16:LD B,E:OR A:LD A,&102:JR Z,SHOWLIGINV
          LD A,&126
SHOWLIGINV LD (HL),A:INC L:DJNZ SHOWLIGINV:LD B,E:ADD HL,DE
SHOWLIGIN1 LD (HL),A:INC L:DJNZ SHOWLIGIN1:RET
```

```
CHEAT2   DB "WE WANT TO HEAR MUSIC", $FF
          CALL SPRINT:DB PRINK,7,PRCLS,PRSIZE,1
          DB PRINK,&105,PRAT,06,00,"MIDNIGHT RESISTANCE"
          DB PRINK,&106
          DB PRAT,06,03,"0. QUIET... 5. COMTU..."
          DB PRAT,06,05,"1. NIGHT... 6. PIGEON..."
          DB PRAT,06,07,"2. HAHAA... 7. HISCORE..."
          DB PRAT,06,09,"3. EGYPT... 8. JUMP..."
          DB PRAT,06,11,"4. LELLY... 9. TITLE..."
          DB PRINK,&104
          DB PRAT,11,22,"Q. QUIT...",PRSIZE,0,PREOF
          LD A,1:LD (MUSCONT+1),A
```

```
MUSLOOP  CALL KEYS:CP "Q":JR Z,XITEM
          CP "0":JR C,MUSLOOP:CP "9"+1:JR NC,MUSLOOP
          SUB "0":CALL PLAYMUSIC:JR MUSLOOP
XITEM     XOR A:JP PLAYMUSIC
```

```
CHEAT3   DB "HELLO JIMMY BAGLEY", $FF
          CALL SPRINT:DB PRINK,7,PRCLS,PRSIZE,1
          DB PRAT,11,10,"HELLO JIM.",PRPAUSE,PREOF
          LD HL,HELLOS:LD (MESSAGE+1),HL:RET
```

```
*****
```

```
;RETURNS C=ASCII VAL OF KEY PRES/NC
;NO KEY CARRY SET
```

```
KEYS      CALL KEYFET:LD A,C:RET
```

```
KEYFET    XOR A:LD (KEYV),A:LD L,0:LD DE,5:LD B,8:LD C,254
KF1       LD A,C:IN A,(254):AND 31:CP 31:PUSH BC:CALL NZ,KPRESD1
          POP BC:ADD HL,DE:RLC C:DJNZ KF1:LD A,(KEYV)
```

```

LD C,A:OR A:JR Z,NKY:LD HL,MKEYTABL
NSHF LD A,C:ADD A,L:LD L,A:JR NC,JJ:INC H
JJ LD C,(HL):LD A,C:OR A:RET
NKY SCF :RET
KPRES D1 OR %11100000:LD H,L:LD B,5
KPRESD SRL A:JR NC,KP1:INC H:DJNZ KPRESD:RET
KP2 LD A,C:INC H:JR KPRESD
KP1 LD C,A:LD A,H:CP $24:JR Z,KP2:OR A:JR Z,KP2
LD (KEYV),A:RET
KEYV DB 0
CSH EQU 0
EN EQU 13
SSH EQU 0
MKEYTABL DB CSH,"ZXCVA5DFGQWERT"
DB "1234509876POIUY"
DB EN,"LKJH ",SSH,"MNB"

```

;*****

```

GOMENU DI :LD A,$3F:LD I,A:XOR A:LD R,A:OUT (254),A
CALL INTER

```

```

MENU CALL SPRINT
DB PRINK,&106,PRINK2,&107
DB PRCLS,PRSIZE,1,PRAT,06,00,"MIDNIGHT RESISTANCE"
DB PRAT,11,03,"1 KEYBOARD"
DB PRAT,11,05,"2 KEMPSTON"
DB PRAT,11,07,"3 SINCLAIR"
DB PRAT,11,09,"4 CURSOR "
DB PRAT,11,11,"5 REDEFINE"
DB PRAT,04,14,"WINNERS DON'T USE DRUGS.",PRSIZE,0
DB PREOF

```

```

CALL RESETSCROLL
OPTDELBOY EI :HALT :LD A,(POS):INC A:LD (POS),A
CALL FLD:CALL SCROLL
LD A,%11110111:IN A,(254):LD C,A
RR C:JR NC,OPT1
RR C:JR NC,OPT2
RR C:JR NC,OPT3
RR C:JR NC,OPT4
RR C:JR NC,OPT5
JP OPTDELBOY

```

```

OPT1 XOR A:LD (READKEYS+1),A:RET
OPT2 LD A,1:LD (READKEYS+1),A:RET
OPT3 LD A,2:LD (READKEYS+1),A:RET
OPT4 LD A,3:LD (READKEYS+1),A:RET
OPT5 CALL REDEFINE:JP MENU

```

;*****

```

REDEFINE LD IX,XTRAKEYS:CALL SPRINT
DB PRINK,&106,PRINK2,&107,PRCLS,PRSIZE,1
DB PRAT,08,02,"PRESS KEY FOR :-"
DB PRINK,&105,PRINK2,&104
DB PRAT,10,06,"HOLD ",PREOF
CALL GETDEF:CALL SPRINT
DB PRAT,10,08,"FIRE PACK ",PREOF
CALL GETDEF:CALL SPRINT
DB PRAT,10,10,"FIRE GUN ",PREOF
CALL GETDEF:CALL SPRINT
DB PRAT,10,12,"UP ",PREOF
CALL GETDEF:CALL SPRINT
DB PRAT,10,14,"DOWN ",PREOF
CALL GETDEF:CALL SPRINT
DB PRAT,10,16,"LEFT ",PREOF
CALL GETDEF:CALL SPRINT
DB PRAT,10,18,"RIGHT ",PREOF
CALL GETDEF:CALL SPRINT
DB PRINK,&106,PRINK2,&107
DB PRAT,08,22,"KEYS OK ? (Y/N)",PREOF
CALL WAITNOKEY:CALL WAITKEY

```

```

HEREW CALL KEYS:JR C,HEREW
LD A,C:CP "N":JP Z,REDEFINE
LD A,C:CP "Y":RET Z
LD HL,CHEAT1:LD A,(HL):CP C:JP Z,RJO
LD HL,CHEAT2:LD A,(HL):CP C:JP Z,RJO
LD HL,CHEAT3:LD A,(HL):CP C:JP Z,RJO

```

```

JR    HEREW

GETDEF    CALL WAITNOKEY:CALL WAITKEY:LD    C,%01111111
GDCPLP    LD    B,%00001
GDBLP     LD    A,C:IN  A,(254):AND B:JR    Z,GOT
          RLC    B:BIT 5,B:JR    Z,GDBLP:RRC C:JR    C,GDCPLP:JR    GETDEF
GOT        LD    (IX+00),C:INC IX:LD    (IX+00),B:INC IX

          PUSH BC:PUSH DE:CALL KEYS
          LD    A,C:POP DE:POP BC:CALL PRTCELL

          JP    WAITNOKEY

;*****

BIGAD      EQU    $5020
SMALLAD    EQU    $5B00

FLD        LD    IX,FLDTAB:LD    DE,BIGAD
          LD    HL,SMALLAD:LD    C,6
FLDCPLP    LD    A,(IX+00):INC IX:OR  A:JR    Z,PAMBY:LD    B,A
FLDBLP     PUSH HL:PUSH DE:PUSH BC
          LD    BC,32:LDIR :POP BC:POP DE:POP HL
          CALL PIXDNDE:DJNZ FLDBLP
PAMBY      LD    A,L:ADD A,32:LD    L,A
          DEC    C:JP    NZ,FLDCPLP
          LD    B,5
CLR        PUSH DE:PUSH BC:LD    HL,$4000:LD    BC,32:LDIR
          POP    BC:POP DE:CALL PIXDNDE:DJNZ CLR

          LD    HL,FLDTAB+6:LD    DE,FLDTAB+7:LD    BC,7:LDDR

FLDCNT     LD    A,0:INC A:LD    (FLDCNT+1),A
HANDY      LD    A,(FLDCNT+1)
          RRA    :RRA :RRA
          AND    %1100
          LD    C,A:LD    B,0:LD    HL,FLIDS:ADD HL,BC
          LD    C,(HL):INC HL:LD    B,(HL):INC HL:LD    (FLIDDY),BC
          LD    A,(FLDCNT+1)
FLIDDY     RRA    :RRA :AND 15:LD    C,A:LD    B,0
          LD    HL,FLDS:ADD HL,BC:LD    A,(HL):LD    (DE),A:RET

FLIDS      RRA    :RRA :RRA :NOP :RRA :NOP :NOP :NOP
          NOP    :NOP :RRA :NOP :RRA :NOP :RRA :RRA

FLDTAB     DS    8,0
LETTER     DS    8,0

FLDS       DB    1,1,1,2,3,4,5,6,5,4,3,2,1,1,1

RESETSCROLL XOR    A:LD    (FLDCNT+1),A
          LD    HL,FLDTAB:LD    DE,FLDTAB+1:LD    BC,7+8:LD    (HL),A:LDIR
          LD    HL,SMALLAD:LD    DE,SMALLAD+1:LD    BC,255:LD    (HL),A:LDIR
          LD    A,7:LD    (SCROLL+1),A
MESSAGE    LD    HL,MESSAGE:LD    (MESSADDR+1),HL
          LD    HL,MESSAGE:LD    (MESSAGE+1),HL:RET

SCROLL     LD    A,7:INC A:AND 7:LD    (SCROLL+1),A:JR    NZ,NOLETTER
MESSADDR   LD    HL,MESSAGE:LD    A,(HL):INC HL:LD    (MESSADDR+1),HL
          CP    255:JR    NZ,NOTEOF
          LD    HL,MESSAGE:LD    (MESSADDR+1),HL:JR    MESSADDR
NOTEOF     OR    128:LD    L,A:LD    H,7
          ADD    HL,HL:ADD HL,HL:ADD HL,HL
          LD    DE,LETTER:LD    BC,8:LDIR

          LD    HL,LETTER:LD    A,(HL):LD    (HL),0
          INC    HL:OR    (HL):LD    (HL),A
          LD    HL,LETTER+7:LD    A,(HL):DEC HL:OR    (HL):LD    (HL),A

NOLETTER   LD    HL,SMALLAD+$1F:LD    DE,LETTER+1:LD    C,6
LETCLP     EX    DE,HL:RL    (HL):EX    DE,HL:LD    B,32
LETBLP     RL    (HL):DEC L:DJNZ LETBLP
          INC    DE:LD    A,L:ADD A,32+32:LD    L,A
          DEC    C:JP    NZ,LETCLP:RET

MESSAGE    DB    "SPECIAL FX PRESENTS 'MIDNIGHT RESISTANCE'...  "
          DB    "CODE BY JIMMY BAGLEY...  "
          DB    "GRAFIX BY CHAS DAVIES...  "
          DB    "MUSIC BY KEITH TINMAN...  "
          DB    "ALL CODE, GRAPHICS AND MUSIC...  "

```

```

DB 127,"'90 OCEAN SOFTWARE.. "
DB " ",255

HELLOS DB "HELLO FIRST OF ALL TO JIMMY AND JACQUI.. "
DB "MUM, "
DB "PAT AND NIGE, CRAIG, DONNA, "
DB "DAVE AND CAROLE AND KIDS, "
DB "KATHY AND JOHN AND FAMILY, "
DB "CHRIS WEBSTER, LEE, NIBS, "
DB "DAVE WORTON, PAUL GRIFFITHS, CHRIS WORTON, "
DB " ",255

EOF

;*****
; ** SET UP PAGES WITH SPRITES + ROUTINES FOR OTHER LEVELS **
;*****

SETUPPAGES DI :LD A,$3F:LD I,A:XOR A:LD R,A:OUT (254),A
LD SP,THESTACK
CALL INTER:XOR A:CALL PLAYMUSIC

LD A,R:LD (RND1),A:DBH 10FE
LD A,R:LD (RND2),A:DBH 10FE
LD A,R:LD (RND3),A

LD A,STARTLEV-1:LD DE,LLDATLEN:LD HL,LLDAT:CALL MULT
LD A,(HL):INC HL:LD H,(HL):LD L,0
LD DE,LEVELDATA:LD BC,$2000:CALL CAGE

LD A,AUTO:OR A:JP NZ,REENTRY

DI :LD A,$3F:LD I,A
XOR A:LD R,A:OUT (254),A
IM 1 :EI
STOPNOW INC A:AND 7:OUT (254),A:JP STOPNOW

CAGE PUSH DE:EXX :POP HL:LD D,A:LD E,$10:LD BC,$7FFD:EXX
DI :LD A,$3F:LD I,A
EXX :OUT (C),E:LD A,(HL):INC HL
OUT (C),D:EXX :LD (HL),A:INC HL
DEC BC:LD A,B:OR C:JP NZ,BCCOPYPAGE
EXX :OUT (C),E:EXX :LD A,$FE:LD I,A:EI :RET

;*****
; ** END OF FILE **
;*****

ENDOFBACK ENDF

;*****
; ** SPECTRUM AY SOUND CHIP MUSIC DRIVER **
;*****

IFLB MUSICALSO=1
OCMD "K7"
ORG $E000

;*****
; ** INITIALIZE TUNE **
;*****

E000 JP RESETSOUND
E003 JP DOMUSIC
E006 JP INITTUNE
E009 JP MUSICDEMO

INITTUNE PUSH AF:CALL RESETSOUND:LD A,$3F:LD (ENABLE),A:POP AF
LD HL,TUNES:LD DE,6:CALL MULT
LD IX,CHANADAT:LD (IX+CHANNEL),0:CALL INITCHAN
LD IX,CHANBDAT:LD (IX+CHANNEL),1:CALL INITCHAN
LD IX,CHANCDAT:LD (IX+CHANNEL),2:JP INITCHAN

ENTR
MUSICDEMO XOR A:OUT (254),A:LD R,A
CALL RESETSOUND:XOR A:CALL INITTUNE
MUSICDEMOLOOP LD A,127:IN A,(254):RRA :JR NC,NOHALT
EI :HALT :DI
NOHALT CALL DOMUSIC
LD HL,ONETOFOVE:LD A,%11110111:CALL INA

```

```

LD HL,SIXTOZERO:LD A,%11101111:CALL INA
JP MUSICDEMOLOOP

INA IN A,(254):LD C,A
RR C:JR NC,GOTU:INC HL
RR C:JR NC,GOTU:INC HL
RR C:JR NC,GOTU:INC HL
RR C:JR NC,GOTU:INC HL
RR C:RET C
GOTU LD A,(HL):JP INITTUNE

ONETOFFIVE DB 1,2,3,4,5
SIXTOZERO DB 0,9,8,7,6

MULT OR A:RET Z:RRA :JR NC,MULT1:ADD HL,DE
MULT1 EX DE,HL:ADD HL,HL:EX DE,HL:JP MULT

INITCHAN XOR A:LD (IX+TRNS),A
LD E,(HL):INC HL:LD D,(HL):INC HL
INITCHAN1 LD A,(DE):INC DE:CP TRANSPOSE:JR NZ,NITRNS
LD A,(DE):INC DE:LD (IX+TRNS),A:JR INITCHAN1
NITRNS LD (IX+SEQ),E:LD (IX+SEQ+1),D:ADD A,A
LD DE,SEQTABLE:ADD A,E:LD E,A:ADC A,D:SUB E:LD D,A
LD A,(DE):INC DE:LD (IX+POSTI),A
LD A,(DE):LD (IX+POSTI+1),A
XOR A
LD (IX+ADSRNUM),A:LD (IX+ADSRADD),A
LD (IX+ADSRDIR),A:LD (IX+ADSRCNT),A
LD (IX+SLIDDIR),A:LD (IX+SLIDOF),A
LD (IX+ARPNUM),A:LD (IX+ARPAD),A:LD (ARPOF),A
LD (IX+VIBNUM),A:LD (IX+VIBADD),A
LD (IX+VIBDEL),A:LD (IX+VIBOF),A
LD (IX+DRMON),A
INC A:LD (IX+SLIDDEL),A:LD (IX+SLIDDELAY),A
LD (IX+ADSRDEL),A:LD (IX+ADSRDELAY),A
LD (IX+VIBTIM),A:LD (IX+VIBTIMER),A
LD (IX+DEL),A
LD (IX+MASTERVOLUME),15:LD (IX+MASTERVOLDIR),0
LD (IX+MASTERVOLDEL),1:LD (IX+MASTERVDELAY),1:RET

;*****
; ** AY CHANNEL HANDLER **
;*****

DRUMBITS CALL DODRUM:LD E,(IX+DRMPIT):LD A,6:CALL SEND1
LD A,(IX+CHANNEL):ADD A,3:JP SENDVOLBITS

DOMUSIC LD IX,CHANADAT:CALL DOCHAN
LD IX,CHANBDAT:CALL DOCHAN
LD IX,CHANCDAT
DOCHAN CALL GOFORNOTE
CALL DOADSR:CALL DOMASTERVOL
LD A,(IX+DRMON):OR A:JR NZ,DRUMBITS
CALL DOSLIDE:CALL DOARPEGGIO:CALL DOVIBRATO
SENDNOTE LD A,(IX+NOTE):ADD A,(IX+ARPOF):ADD A,(IX+TRNS)
LD L,A:LD H,0:ADD HL,HL:ADD HL,HL
LD A,(IX+SLIDOF):CALL ADDHLAS
LD A,(IX+VIBOF):CALL ADDHLAS
LD A,L:SRL H:RR L:RES 0,L:AND 3:PUSH AF
LD DE,OCT0:ADD HL,DE:LD E,(HL):INC HL:LD D,(HL)
LD BC,ST0-OCT0:ADD HL,BC:LD B,(HL):DEC HL:LD C,(HL)
EX DE,HL:LD E,C:LD D,B:POP AF:JR Z,NODDY:LD B,A
NADDY ADD HL,DE:DJNZ NADDY
NODDY LD A,(IX+CHANNEL):ADD A,A:CALL SEND2
LD A,(IX+CHANNEL)
SENDVOLBITS CALL ENABLER:LD E,A:LD A,7:CALL SEND1
LD A,15:SUB (IX+MASTERVOLUME):LD E,A
LD A,(IX+VOL):SUB E:JR NC,NOTLESSTHAN:XOR A
NOTLESSTHAN LD E,A:LD A,(IX+CHANNEL):ADD A,8:JP SEND1

ADDHLAS OR A:JP M,HLMA
HLPA ADD A,L:LD L,A:ADC A,H:SUB L:LD H,A:RET
HLMA PUSH BC:NEG :LD C,A:LD A,L:SUB C:LD L,A
LD A,H:SBC A,0:LD H,A:POP BC:RET

GOFORNOTE DEC (IX+DEL):RET NZ
GETNOTE LD L,(IX+POSTI):LD H,(IX+POSTI+1)
ANOTHERNOTE LD A,(HL):INC HL:OR A:JP P,GOTNOTE
ADD A,A:LD DE,CHANFUNCTIONS
ADD A,E:LD E,A:ADC A,D:SUB E:LD D,A

```

```

LD A,(DE):LD C,A:INC DE:LD A,(DE):LD B,A:PUSH BC:RET

GOTNOTE LD (IX+NOTE),A:LD E,(HL):INC HL:LD (IX+DEL),E
LD A,(IX+SLIDDELAY):LD (IX+SLIDDEL),A
XOR A:LD (IX+SLIDOF),A:LD (IX+DRMON),A
LD (IX+VIBADD),A:LD (IX+VIBOF),A
LD (IX+VOL),A:LD (IX+ARPADD),A
LD (IX+ADSRADD),A:LD (IX+ADSRCNT),A
INC A:LD (IX+VIBDEL),A
LD (IX+ADSRDEL),A:LD (IX+ADSRDELAY),A
LD (IX+POSTI),L:LD (IX+POSTI+1),H:RET

CHANFUNCTIONS DW SETEND ; 128
DW SETREST ; 129
DW SETADSR ; 130
DW SETSLIDE ; 131
DW SETARPEG ; 132
DW SETVIBRATO ; 133
DW SETDRUM ; 134
DW SETVOLUME ; 135

SETEND LD L,(IX+SEQ):LD H,(IX+SEQ+1)
GETEND LD A,(HL):INC HL
CP TRANSPOSE:JR Z,OKTRNS
CP STOP:RET Z
CP GOTO:JR Z,OKGOTO

OKEND LD (IX+SEQ),L:LD (IX+SEQ+1),H:ADD A,A
LD DE,SEQTABLE:ADD A,E:LD E,A:ADC A,D:SUB E:LD D,A
LD A,(DE):LD (IX+POSTI),A:INC DE:LD L,A
LD A,(DE):LD (IX+POSTI+1),A:LD H,A:JP ANOTHERNOTE

OKGOTO LD A,(HL):INC HL:LD H,(HL):LD L,A:JR GETEND
OKTRNS LD A,(HL):INC HL:LD (IX+TRNS),A:JR GETEND

SETREST LD A,(HL):INC HL:LD (IX+DEL),A
LD (IX+POSTI),L:LD (IX+POSTI+1),H:RET

SETADSR LD A,(HL):INC HL:LD (IX+ADSRNUM),A:LD (IX+ADSRADD),0
LD (IX+VOL),0
LD (IX+ADSRDEL),1:LD (IX+ADSRDELAY),1:LD (IX+ADSRCNT),0
LD (IX+POSTI),L:LD (IX+POSTI+1),H:JP ANOTHERNOTE

SETSLIDE LD A,(HL):INC HL:LD (IX+SLIDDIR),A:LD (IX+SLIDOF),0
LD A,(HL):INC HL:LD (IX+SLIDDEL),A:LD (IX+SLIDDELAY),A
LD (IX+POSTI),L:LD (IX+POSTI+1),H:JP ANOTHERNOTE

SETARPEG LD A,(HL):INC HL:LD (IX+ARPNUM),A
LD (IX+ARPADD),0:LD (IX+ARPOF),0
LD (IX+POSTI),L:LD (IX+POSTI+1),H:JP ANOTHERNOTE

SETVIBRATO LD A,(HL):INC HL:LD (IX+VIBNUM),A
XOR A:LD (IX+VIBADD),A:LD (IX+VIBOF),A
INC A:LD (IX+VIBDEL),A
LD (IX+VIBTIM),A:LD (IX+VIBTIMER),A
LD (IX+POSTI),L:LD (IX+POSTI+1),H:JP ANOTHERNOTE

SETDRUM LD A,(HL):INC HL:LD (IX+DRMNUM),A:LD (IX+DRMON),1
LD DE,DRUMADSR:ADD A,E:LD E,A:ADC A,D:SUB E:LD D,A
LD A,(DE):LD (IX+ADSRNUM),A:LD (IX+ADSRADD),0
LD (IX+ADSRDEL),1:LD (IX+ADSRDELAY),1:LD (IX+ADSRCNT),0
LD (IX+VOL),0
LD A,(HL):INC HL:LD (IX+DEL),A
LD (IX+DRMADD),0:LD (IX+DRMCNT),0
LD (IX+DRMDEL),1:LD (IX+DRMDELAY),1
LD (IX+DRMPIT),0
LD (IX+POSTI),L:LD (IX+POSTI+1),H:RET

SETVOLUME LD A,(HL):INC HL:LD (IX+MASTERVOLUME),A
LD A,(HL):INC HL:LD (IX+MASTERVOLDIR),A
LD A,(HL):INC HL:LD (IX+MASTERVOLDEL),A
LD (IX+MASTERVDELAY),A
LD (IX+POSTI),L:LD (IX+POSTI+1),H:JP ANOTHERNOTE

;*****
;
ENABLER LD HL,SWITCHOFS:ADD A,L:LD L,A:ADC A,H:SUB L:LD H,A
LD DE,ENABLE:LD A,(DE):AND (HL):LD (DE),A
LD A,L:ADD A,6:LD L,A:ADC A,H:SUB L:LD H,A

```

```

LD A,(DE):OR (HL):LD (DE),A:RET

;*****
DOMASTERVOL LD A,(IX+MASTERVOLDIR):OR A:RET Z
DEC (IX+MASTERVOLDEL):RET NZ
LD A,(IX+MASTERVDELAY):LD (IX+MASTERVOLDEL),A
LD A,(IX+MASTERVOLUME):ADD A,(IX+MASTERVOLDIR)
CP 16:RET Z:CP 255:RET Z
LD (IX+MASTERVOLUME),A:RET

DOADSR DEC (IX+ADSRDEL):RET NZ
LD A,(IX+ADSRDELAY):LD (IX+ADSRDEL),A
DEC (IX+ADSRCNT):JP M,SETNEWADSR
LD A,(IX+VOL):ADD A,(IX+ADSRDIR):LD (IX+VOL),A
CP 15:RET C:LD (IX+VOL),0:RET M:LD (IX+VOL),15:RET

SETNEWADSR LD A,(IX+ADSRNUM):ADD A,A:LD HL,ADSRTAB:ADD A,L:LD L,A
ADC A,H:SUB L:LD H,A
LD E,(HL):INC HL:LD D,(HL)
LD A,(IX+ADSRADD):ADD A,E:LD E,A:ADC A,D:SUB E:LD D,A
LD A,(DE):CP END:JR Z,KILLADSR
INC DE:LD (IX+ADSRDIR),A
LD A,(DE):INC DE:LD (IX+ADSRDEL),A:LD (IX+ADSRDELAY),A
LD A,(DE):LD (IX+ADSRCNT),A
LD A,(IX+ADSRADD):ADD A,3:LD (IX+ADSRADD),A:RET

KILLADSR LD (IX+VOL),0:LD (IX+ADSRDELAY),255:LD (IX+ADSRDEL),255
LD (IX+ADSRDIR),0
LD (IX+ADSRCNT),0:RET

DOSLIDE DEC (IX+SLIDDEL):RET NZ
LD A,(IX+SLIDDELAY):LD (IX+SLIDDEL),A
LD A,(IX+SLIDOF):ADD A,(IX+SLIDDIR):LD (IX+SLIDOF),A
RET

DOARPEGIO LD A,(IX+ARPNUM):ADD A,A:LD HL,ARPTAB:ADD A,L:LD L,A
ADC A,H:SUB L:LD H,A
LD E,(HL):INC HL:LD D,(HL)
LD A,(IX+ARPAD):ADD A,E:LD E,A:ADC A,D:SUB E:LD D,A
LD A,(DE):CP LOP:JR Z,LOPARP
LD A,(DE):CP END:RET Z
LD (IX+ARPOF),A:INC (IX+ARPAD):RET

LOPARP LD (IX+ARPOF),0:LD (IX+ARPAD),0:JR DOARPEGIO

DOVIBRATO DEC (IX+VIBDEL):RET NZ:INC (IX+VIBDEL)

DEC (IX+VIBTIM):RET NZ
LD A,(IX+VIBTIMER):LD (IX+VIBTIM),A

LD A,(IX+VIBNUM):ADD A,A:LD HL,VIBTAB:ADD A,L:LD L,A
ADC A,H:SUB L:LD H,A
LD E,(HL):INC HL:LD D,(HL)
LD A,(IX+VIBADD):ADD A,E:LD E,A:ADC A,D:SUB E:LD D,A
LD A,(IX+VIBADD):OR A:JR Z,SETVIBDEL
LD A,(DE):CP LOP:JR Z,LOPVIB
LD A,(DE):CP END:RET Z
LD (IX+VIBOF),A:INC (IX+VIBADD):RET

LOPVIB LD (IX+VIBOF),0:LD (IX+VIBADD),2:JR DOVIBRATO
SETVIBDEL LD A,(DE):LD (IX+VIBDEL),A:INC DE
LD A,(DE):LD (IX+VIBTIM),A:LD (IX+VIBTIMER),A
LD (IX+VIBOF),0:LD (IX+VIBADD),2:RET

DODRUM DEC (IX+DRMDEL):RET NZ
LD A,(IX+DRMDELAY):LD (IX+DRMDEL),A
DEC (IX+DRMCNT):JP M,SETNEWDUM
LD A,(IX+DRMPIT):ADD A,(IX+DRMDIR):LD (IX+DRMPIT),A
CP 31:RET C
LD (IX+DRMPIT),0:RET M
LD (IX+DRMPIT),31:RET

SETNEWDUM LD A,(IX+DRMNUM):ADD A,A:LD HL,DRUMTAB:ADD A,L:LD L,A
ADC A,H:SUB L:LD H,A
LD E,(HL):INC HL:LD D,(HL)
LD A,(IX+DRMADD):ADD A,E:LD E,A:ADC A,D:SUB E:LD D,A
LD A,(DE):CP END:JR Z,KILLDRUM
LD A,(DE):INC DE:LD (IX+DRMDIR),A
LD A,(DE):INC DE:LD (IX+DRMDEL),A:LD (IX+DRMDELAY),A
LD A,(DE):LD (IX+DRMCNT),A
LD A,(IX+DRMADD):ADD A,3:LD (IX+DRMADD),A:RET

KILLDRUM

```

```

LD (IX+VOL),0
LD (IX+DRMDELAY),1:LD (IX+DRMDEL),1
LD (IX+DRMDIR),0:LD (IX+DRMCNT),0:RET

;*****
; ** RESET SOUND CHIP **
;*****

RESETSOUND XOR A:LD HL,0:CALL SEND2
INC A:CALL SEND2:INC A:CALL SEND2
LD A,07:LD E,%00111111:CALL SEND1
INC A:CALL SEND2:INC A:CALL SEND2:INC A
SEND2 LD E,L:CALL SEND1:LD E,H:INC A
SEND1 LD BC,$FFFD:OUT (C),A:LD BC,$BFFD:OUT (C),E:RET

;*****
; ** FREQUENCY TABLE FOR EACH NOTE **
;*****

OCT0 DW $DD5,$C9C,$BE7,$B3C,$A9B,$A02
DW $973,$8EB,$86B,$7F2,$780,$714
OCT1 DW $6AE,$64E,$5F4,$59E,$54D,$501
DW $4B9,$475,$435,$3F9,$3C0,$38A
OCT2 DW $357,$327,$2FA,$2CF,$2A7,$281
DW $25D,$23B,$21B,$1FC,$1E0,$1C5
OCT3 DW $1AC,$194,$17D,$168,$153,$140
DW $12E,$11D,$10D,$0FE,$0F0,$0E2
OCT4 DW $0D6,$0CA,$0BE,$0B4,$0AA,$0A0
DW $097,$08F,$087,$07F,$078,$071
OCT5 DW $06B,$065,$05F,$05A,$055,$050
DW $04C,$047,$043,$040,$03C,$039
OCT6 DW $035,$032,$030,$02D,$02A,$028
DW $026,$024,$022,$020,$01E,$01C
OCT7 DW $01B,$019,$018,$016,$015,$014
DW $013,$012,$011,$010,$00F,$00E

;*****
; ** SLIDE TABLE FOR EACH NOTE **
;*****

ST0 DW 0-78,0-45,0-42,0-40,0-38,0-35
DW 0-34,0-32,0-30,0-28,0-27,0-25
ST1 DW 0-24,0-22,0-21,0-20,0-19,0-18
DW 0-17,0-16,0-15,0-14,0-13,0-12
ST2 DW 0-12,0-11,0-10,0-10,0-09,0-09
DW 0-08,0-08,0-07,0-07,0-06,0-06
ST3 DW 0-06,0-05,0-05,0-05,0-04,0-04
DW 0-04,0-04,0-03,0-03,0-03,0-03
ST4 DW 0-03,0-02,0-02,0-02,0-02,0-02
DW 0-02,0-02,0-01,0-01,0-01,0-01
ST5 DW 0-01,0-01,0-01,0-01,0-01,0-01
DW 0-01,0-01,0-01,0-00,0-00,0-00
ST6 DW 0-00,0-00,0-00,0-00,0-00,0-00
DW 0-00,0-00,0-00,0-00,0-00,0-00
ST7 DW 0-00,0-00,0-00,0-00,0-00,0-00
DW 0-00,0-00,0-00,0-00,0-00,0-00

;*****
; ** AY DRIVER EQUATES **
;*****

GOTO EQU 128
REPEAT EQU 128
STOP EQU 129
TRANSPPOSE EQU 130

;*****

END EQU 128
REST EQU 129
ADSR EQU 130
SLIDE EQU 131
ARPEG EQU 132
VIBRATO EQU 133
DRUM EQU 134
VOLUME EQU 135

;*****
; ** (ARPEG ETC...) SPECIAL DATA EQUATES **
;*****

```


;END EQU 128
LOP EQU 129

; ** CHANNEL DATA INFORMATION EQUATES **

POSI EQU 00
SEQ EQU 02
DEL EQU 04
NOTE EQU 05
VOL EQU 06
CHANNEL EQU 07
ARPOF EQU 08
VIBOF EQU 09
SLIDOF EQU 10
TRNS EQU 11
ADSRNUM EQU 12
ADSRADD EQU 13
ADSRDIR EQU 14
ADSRDELAY EQU 15
ADSRDEL EQU 16
ADSRCNT EQU 17
SLIDDIR EQU 18
SLIDDELAY EQU 19
SLIDDEL EQU 20
ARPNUM EQU 21
ARPADD EQU 22
VIBNUM EQU 23
VIBADD EQU 24
VIBDEL EQU 25
VIBTIM EQU 26
VIBTIMER EQU 27
DRMNUM EQU 28
DRMADD EQU 29
DRMDIR EQU 30
DRMDELAY EQU 31
DRMDEL EQU 32
DRMCNT EQU 33
DRMON EQU 34
DRMPIT EQU 35
MASTERVOLUME EQU 36
MASTERVOLDIR EQU 37
MASTERVOLDEL EQU 38
MASTERVDELAY EQU 39

DATLEN EQU 40

; ** MUSIC NOTE EQUATES **

C0 EQU 0
C_0 EQU 1
D0 EQU 2
D_0 EQU 3
E0 EQU 4
F0 EQU 5
F_0 EQU 6
G0 EQU 7
G_0 EQU 8
A0 EQU 9
A_0 EQU 10
B0 EQU 11
C1 EQU 12
C_1 EQU 13
D1 EQU 14
D_1 EQU 15
E1 EQU 16
F1 EQU 17
F_1 EQU 18
G1 EQU 19
G_1 EQU 20
A1 EQU 21
A_1 EQU 22
B1 EQU 23
C2 EQU 24
C_2 EQU 25
D2 EQU 26

D_2	EQU	27
E2	EQU	28
F2	EQU	29
F_2	EQU	30
G2	EQU	31
G_2	EQU	32
A2	EQU	33
A_2	EQU	34
B2	EQU	35
C3	EQU	36
C_3	EQU	37
D3	EQU	38
D_3	EQU	39
E3	EQU	40
F3	EQU	41
F_3	EQU	42
G3	EQU	43
G_3	EQU	44
A3	EQU	45
A_3	EQU	46
B3	EQU	47
C4	EQU	48
C_4	EQU	49
D4	EQU	50
D_4	EQU	51
E4	EQU	52
F4	EQU	53
F_4	EQU	54
G4	EQU	55
G_4	EQU	56
A4	EQU	57
A_4	EQU	58
B4	EQU	59
C5	EQU	60
C_5	EQU	61
D5	EQU	62
D_5	EQU	63
E5	EQU	64
F5	EQU	65
F_5	EQU	66
G5	EQU	67
G_5	EQU	68
A5	EQU	69
A_5	EQU	70
B5	EQU	71
C6	EQU	72
C_6	EQU	73
D6	EQU	74
D_6	EQU	75
E6	EQU	76
F6	EQU	77
F_6	EQU	78
G6	EQU	79
G_6	EQU	80
A6	EQU	81
A_6	EQU	82
B6	EQU	83
C7	EQU	84
C_7	EQU	85
D7	EQU	86
D_7	EQU	87
E7	EQU	88
F7	EQU	89
F_7	EQU	90
G7	EQU	91
G_7	EQU	92
A7	EQU	93
A_7	EQU	94
B7	EQU	95

```

;*****
;
; ** DRIVER PAGE DATA **
;*****
;
```

```
ENABLE      DB      0
```

```
SWITCHOFS   DB      %11110110
              DB      %11101101
              DB      %11011011
              DB      %11110110
```

```

DB %11101101
DB %11011011

TONESETTINGS DB %00001000
DB %00010000
DB %00100000
DRUMSETTINGS DB %00000001
DB %00000010
DB %00000100

CHANADAT DS DATLEN,0
CHANBDAT DS DATLEN,0
CHANCDAT DS DATLEN,0

```

```

,*****
; DIRECTION,DELAY,NO OF TIMES

```

```

ADSR00 DW ADSR00,ADSR01,ADSR02,ADSR03
DW ADSR04,ADSR05,ADSR06,ADSR07
DW ADSR08,ADSR09,ADSR10,ADSR11
DW ADSR12

ADSR00 DB 0,1,1 ; OFF
DB END
ADSR01 DB 12,1,1 ; ON 12
DB -1,2,12 ; SLOWISH RELEASE
DB END
ADSR02 DB 4,4,3 ; ATTACK SLOWLY TO 15
DB -1,4,4 ; DECAY SLOWLY TO 11
DB 0,15,1 ; SUSTAIN FOR 11
DB -1,5,8 ; RELEASE SLOWLY
DB END
ADSR03 DB 15,1,1 ; ON 15
DB -1,1,15 ; RELEASE
DB END
ADSR04 DB 15,1,1 ; ON 15
DB -5,1,3 ; RELEASE QUICKLY
DB END
ADSR05 DB 12,1,1 ; ON 12
DB -1,1,12 ; RELEASE
DB END
ADSR06 DB 15,1,1 ; ON 15
DB 0,25,1 ; SUSTAIN FOR 25
DB -1,1,15 ; RELEASE
DB END
ADSR07 DB 15,1,1 ; ON 15
DB -1,4,15 ; SLOWISH RELEASE
DB END
ADSR08 DB 15,1,1 ; ON 15
DB 0,30,1 ; SUSTAIN 30 FRAMES
DB -1,2,15 ; SLOW FADE OFF
DB END
ADSR09 DB 14,1,1 ; BASS DRUM
DB -3,1,1
DB -15,1,1
DB END
ADSR10 DB 13,1,1 ; SNARE
DB -3,1,1
DB -15,1,1
DB END
ADSR11 DB 13,1,1 ; HI HAT
DB -15,1,1
DB END
ADSR12 DB 5,1,3 ; ATTACK TO 15
DB 0,10,1 ; SUSTAIN 10 FRAMES
DB -1,3,15 ; SLOW FADE OFF
DB END

```

```

,*****

```

```

ARPTAB DW ARP00,ARP01,ARP02,ARP03
DW ARP04,ARP05,ARP06,ARP07
DW ARP08,ARP09,ARP10,ARP11
DW ARP12,ARP13,ARP14,ARP15

ARP00 DB 00,END

```

```

ARP01      DB    00,07,12,05,LOP
ARP02      DB    00,07,12,04,LOP
ARP03      DB    00,12,LOP
ARP04      DB    00,03,07,LOP
ARP05      DB    00,03,07,LOP
ARP06      DB    00,04,08,LOP
ARP07      DB    00,04,07,LOP
ARP08      DB    00,03,08,LOP
ARP09      DB    00,05,08,LOP
ARP10      DB    00,02,07,LOP
ARP11      DB    00,-12,12,24,LOP
ARP12      DB    00,-5,12,LOP
ARP13      DB    00,05,09,LOP
ARP14      DB    00,03,08,LOP
ARP15      DB    00,04,07,LOP

```

```

;*****
;

```

```

VIBTAB      DW    VIB0,VIB1,VIB2,VIB3,VIB4

```

```

VIB0        DB    255,000,00,END
VIB1        DB    024,003,01,00,-1,LOP

```

```

VIB2        DB    048,002,01,00,-1,LOP

```

```

VIB3        DB    009,003,01,00,-1,LOP

```

```

VIB4        DB    027,003,01,02,01,00,-1,-2,-1,0,LOP

```

```

;*****
;

```

```

DRUMADSR    DB    00,00,00,09
              DB    10,00,00,11

```

```

DRUMTAB      DW    0,0,0,BASS
              DW    SNARE,0,0,HIHAT

```

```

; DIRECTION,DELAY,NO OF TIMES
BASS

```

```

              DB    $1F,01,1
              DB    $1B,01,1
              DB    $18,01,1
              DB    END

```

```

SNARE        DB    $00,01,1
              DB    $02,01,1
              DB    $04,01,1
              DB    END

```

```

HIHAT        DB    $00,01,1
              DB    END

```

```

;*****
;

```

```

; ** TUNE DATA **
;*****
;

```

```

;*****
;

```

```

;*****
;

```

```

;INITFADEIN  DB    VOLUME,00,+1,12,END
;INITFADEOUT DB    VOLUME,15,-1,12,END
;*****
;

```

```

;*****
;

```

```

;*****
;

```

```

;*****
;

```

```

;*****
;

```

```

;*****
;

```

```

;*****
;

```

```

;*****
;

```

```

TUNES

```

```

DW    ALLOFF,ALLOFF,ALLOFF;    00
DW    NIGHT1,NIGHT2,NIGHT3;    01
DW    HAHAA1,HAHAA2,HAHAA3;    02
DW    EGYPT1,EGYPT2,EGYPT3;    03
DW    LELLY1,LELLY2,LELLY3;    04
DW    COMTU1,COMTU2,COMTU3;    05
DW    PIGEON1,PIGEON2,PIGEON3; 06
DW    HICORE1,HICORE2,HICORE3; 07
DW    JUMP1,JUMP2,JUMP3 ;      08
DW    TITLE1,TITLE2,TITLE3;    09

```

```

SEQTABLE     DW    SEQ00,SEQ01,SEQ02,SEQ03,SEQ04,SEQ05,SEQ06,SEQ07
              DW    SEQ08,SEQ09,SEQ10,SEQ11,SEQ12,SEQ13,SEQ14,SEQ15
              DW    SEQ16,SEQ17,SEQ18,SEQ19,SEQ20,SEQ21,SEQ22,SEQ23
              DW    SEQ24,SEQ25,SEQ26,SEQ27,SEQ28,SEQ29,SEQ30,SEQ31
              DW    SEQ32,SEQ33,SEQ34,SEQ35,SEQ36,SEQ37,SEQ38,SEQ39
              DW    SEQ40,SEQ41,SEQ42,SEQ43,SEQ44,SEQ45,SEQ46,SEQ47
              DW    SEQ48,SEQ49,SEQ50,SEQ51,SEQ52,SEQ53,SEQ54,SEQ55

```

```

DW SEQ56,SEQ57,SEQ58,SEQ59,SEQ60,SEQ61,SEQ62,SEQ63
DW SEQ64,SEQ65,SEQ66,SEQ67
DW OFF68

```

```

;*****

```

```

ALLOFF DB 68,STOP
OFF68 DB ADSR,0,REST,2,END

```

```

;*****

```

```

NIGHT1 DB TRANSPOSE,12
DB 08,08
DB TRANSPOSE,-12
DB 02
DB 03
DB TRANSPOSE,12
DB 08,08
DB 08,08
DB REPEAT
DW NIGHT1

```

```

NIGHT2 DB TRANSPOSE,-12
DB 01
DB TRANSPOSE,-12
DB 09
DB TRANSPOSE,00
DB 05
DB 07,07,07,07
DB REPEAT
DW NIGHT2

```

```

NIGHT3 DB 04
DB REPEAT
DW NIGHT3

```

```

SEQ00

```

```

SEQ01 DB ADSR,08
DB VIBRATO,1
DB G4,12
DB A_4,12
DB F5,12
DB E5,156
DB D_5,96
DB D5,96
DB VIBRATO,0
DB END

```

```

SEQ02

```

```

DB ADSR,7
DB VIBRATO,1
DB G4,12
DB A_4,12
DB F5,12
DB E5,60
DB G4,12
DB A_4,12
DB D5,12
DB C_5,48
DB F5,06

DB G5,12
DB REST,90
DB A_5,24
DB A5,24
DB A_5,06
DB C6,12
DB D6,12
DB C6,06
DB A_5,12
DB VIBRATO,0
DB END

```

```

SEQ03

```

```

DB ADSR,7
DB VIBRATO,1
DB G3,12
DB A_3,12
DB F4,12
DB E4,156

```

```

DB F4,48
DB F4,48
DB F_4,48
DB G4,48
DB VIBRATO,0
DB END

SEQ04 DB ADSR,07
DB G1,06
DB G1,06
DB G1,06
DB G1,06
DB F1,06
DB G1,06
DB G1,06
DB G1,06
DB G1,06
DB G1,06
DB G1,06
DB G1,06
DB A_1,06
DB G1,06
DB G1,06
DB G1,06
DB END

SEQ05 DB ADSR,7
DB VIBRATO,1
DB G3,12
DB A_3,12
DB F4,12
DB E4,60
DB G4,12
DB A_4,12
DB D5,12
DB C_5,60

DB A4,48
DB A_4,48
DB B4,48
DB C5,48
DB VIBRATO,0
DB END

SEQ06 DB ADSR,7
DB VIBRATO,1
DB G4,18
DB G4,18
DB G4,12
DB F4,06
DB G4,30
DB F4,12

DB G4,18
DB G4,18
DB G4,12
DB F4,06
DB G4,30
DB F4,12

DB G4,18
DB G4,18
DB G4,12
DB F4,06
DB G4,30
DB F4,12

DB G4,36
DB G4,12
DB F4,06
DB G4,12
DB G4,18
DB F4,12
DB VIBRATO,0
DB END

SEQ07 DB DRUM,3,24
DB DRUM,4,24
DB DRUM,3,24

```

DB DRUM,4,24
 DB DRUM,3,24
 DB DRUM,4,24
 DB DRUM,3,06
 DB DRUM,3,06
 DB DRUM,3,06
 DB DRUM,3,06
 DB DRUM,4,12
 DB DRUM,4,06
 DB DRUM,4,06
 DB END

SEQ08

DB ADSR,7
 DB ARPEG,3
 DB G3,12
 DB G3,12
 DB G3,12
 DB G3,24
 DB G3,03
 DB G3,03
 DB G3,06
 DB G3,12
 DB G3,12
 DB G3,12
 DB G3,12
 DB G3,24
 DB G3,03
 DB G3,03
 DB G3,06
 DB G3,12
 DB G3,12
 DB G3,03
 DB G3,03
 DB G3,03
 DB G3,03
 DB G3,03
 DB ARPEG,0
 DB END

SEQ09

DB ADSR,7
 DB VIBRATO,1
 DB REST,03
 DB G3,12
 DB A_3,12
 DB F4,12
 DB E4,60
 DB G3,12
 DB A_3,12-3
 DB D4,12
 DB C_4,48
 DB F4,06
 DB G4,12+12
 DB REST,90-12

 DB ADSR,1
 DB A_3,24
 DB A3,24
 DB A_3,06
 DB C4,12
 DB D4,12
 DB C4,06
 DB A_3,12
 DB VIBRATO,0
 DB END

HAHAA1

DB 11

KT

DB TRANSPOSE,00
 DB 12
 DB 12
 DB REPEAT
 DW KT

HAHAA2

DB TRANSPOSE,00
 DB 10

LC

DB TRANSPOSE,0
 DB 14,14
 DB REPEAT
 DW LC

HAHAA3	DB	TRANSPPOSE,-12
	DB	11
RT	DB	TRANSPPOSE,0
	DB	13,13
	DB	REPEAT
	DW	RT

SEQ10	DB	ADSR,7
	DB	C3,18
	DB	C3,06
	DB	C3,30
	DB	C3,06
	DB	C3,12
	DB	C3,12
	DB	C3,12
	DB	C_3,18
	DB	C_3,06
	DB	C_3,30
	DB	C_3,06
	DB	C_3,12
	DB	C_3,12
	DB	C_3,12
	DB	C3,18
	DB	C3,06
	DB	C3,30
	DB	C3,06
	DB	C3,12
	DB	C3,12
	DB	C3,12
	DB	C_3,18
	DB	C_3,06
	DB	C_3,30
	DB	C_3,06
	DB	C_3,12
	DB	C_3,12
	DB	C_3,12
	DB	END

SEQ11	DB	ADSR,8
	DB	G3,60
	DB	C4,12
	DB	D4,12
	DB	D_4,12
	DB	C_4,60
	DB	F4,12
	DB	C_4,06
	DB	G_3,06
	DB	F4,12
	DB	C4,12
	DB	D4,12
	DB	D_4,12
	DB	G3,24
	DB	C4,12
	DB	D4,12
	DB	D_4,12
	DB	C_4,06
	DB	D_4,06
	DB	F4,48
	DB	C_4,12
	DB	G_3,06
	DB	C_4,06
	DB	F4,12
	DB	END

SEQ12	DB	ADSR,7
	DB	ARPEG,5
	DB	E4,18
	DB	E4,06
	DB	E4,30
	DB	E4,06
	DB	E4,12
	DB	E4,24
	DB	ARPEG,6
	DB	D_4,18
	DB	D_4,06
	DB	D_4,30
	DB	D_4,06
	DB	D_4,12
	DB	D_4,24

DB ARPEG,7
 DB D4,18
 DB D4,06
 DB D4,30
 DB D4,06
 DB D4,12
 DB D4,24
 DB ARPEG,8
 DB C_4,18
 DB C_4,06
 DB C_4,30
 DB C_4,06
 DB C_4,12
 DB C_4,24
 DB ARPEG,7
 DB C4,18
 DB C4,06
 DB C4,30
 DB C4,06
 DB C4,12
 DB C4,24
 DB ARPEG,9
 DB B3,18
 DB B3,06
 DB B3,30
 DB B3,06
 DB B3,12
 DB B3,24
 DB ARPEG,10
 DB B3,18
 DB B3,06
 DB B3,30
 DB B3,06
 DB B3,12
 DB B3,24
 DB B3,18
 DB B3,06
 DB B3,30
 DB B3,06
 DB B3,12
 DB B3,24
 DB ARPEG,0
 DB END

SEQ13

DB ADSR,07
 DB E2,18
 DB E2,06
 DB E2,30
 DB E2,06
 DB E2,12
 DB E2,24
 DB D_2,18
 DB D_2,06
 DB D_2,30
 DB D_2,06
 DB D_2,12
 DB D_2,24
 DB D2,18
 DB D2,06
 DB D2,30
 DB D2,06
 DB D2,12
 DB D2,24
 DB C_2,18
 DB C_2,06
 DB C_2,30
 DB C_2,06
 DB C_2,12
 DB C_2,24
 DB C2,18
 DB C2,06
 DB C2,30
 DB C2,06
 DB C2,12
 DB C2,24
 DB B1,18
 DB B1,06
 DB B1,30
 DB B1,06
 DB B1,12

```

DB B1,24
DB A_1,18
DB A_1,06
DB A_1,30
DB A_1,06
DB A_1,12
DB A_1,24
DB B1,18
DB B1,06
DB B1,30
DB D_2,06
DB D_2,12
DB D_2,24
DB END

SEQ14 DB ADSR,08
DB VIBRATO,2
DB B4,72
DB G4,08
DB A4,08
DB B4,08
DB B4,48
DB F_4,48
DB A4,72
DB F_4,08
DB G4,08
DB A4,08
DB A4,48
DB E4,48
DB G4,72
DB E4,08
DB F_4,08
DB G4,08
DB G4,48
DB D4,36
DB D4,12
DB F_4,72
DB E4,12
DB F_4,12
DB E4,32
DB F_4,08
DB E4,08
DB D_4,28
DB F_4,04
DB G4,04
DB G_4,04
DB A4,04
DB A_4,04
DB ADSR,00
DB VIBRATO,0
DB END

SEQ15 DB DRUM,3,24
DB DRUM,4,24
DB DRUM,3,24
DB DRUM,4,24

DB DRUM,3,24
DB DRUM,4,24
DB DRUM,3,24
DB DRUM,4,24
DB END

SEQ16 DB REST,192
DB REST,192
DB END
;*****
EGYPT1 DB TRANSPOSE,-12
DB 18
DB TRANSPOSE,-12+5
DB 19
DB TRANSPOSE,-12
DB 22
DB REPEAT
DW EGYPT1

EGYPT2 DB TRANSPOSE,0
DB 17
DB 20,20
DB 21

```

	DB	TRANPOSE,-3
	DB	Z1
	DB	REPEAT
	DW	EGYPT2
EGYPT3	DB	Z3
	DB	REPEAT
	DW	EGYPT3
SEQ17	DB	ADSR,0
	DB	REST,24
	DB	ADSR,1
	DB	G_3,06
	DB	A_3,06
	DB	C_4,06
	DB	D_4,06
	DB	G_4,24
	DB	ADSR,5
	DB	ARPEG,3
	DB	G_3,48
	DB	G_3,48
	DB	G_3,48
	DB	ARPEG,0
	DB	ADSR,1
	DB	G_3,06
	DB	A_3,06
	DB	C_4,06
	DB	D_4,06
	DB	G_4,24
	DB	ADSR,5
	DB	ARPEG,3
	DB	G_3,48
	DB	G_3,42
	DB	G_3,06
	DB	G_3,06
	DB	G_4,06
	DB	G_3,12
	DB	ARPEG,0
	DB	END
SEQ18	DB	ADSR,08
	DB	VIBRATO,1
	DB	G_4,60
	DB	G_4,12
	DB	F_4,12
	DB	G_4,12
	DB	A4,18
	DB	B4,18
	DB	A4,12
	DB	G_4,18
	DB	F_4,18
	DB	D_4,12
	DB	G_4,60
	DB	G_4,12
	DB	F_4,12
	DB	G_4,12
	DB	A4,18
	DB	B4,18
	DB	A4,12
	DB	G_4,18
	DB	F_4,18
	DB	D_4,12
	DB	END
SEQ19	DB	ADSR,8
	DB	G_4,60
	DB	G_4,12
	DB	F_4,12
	DB	G_4,12
	DB	A4,18
	DB	B4,18
	DB	A4,12
	DB	G_4,18
	DB	F_4,18
	DB	D_4,12
	DB	G_4,60
	DB	G_4,12
	DB	F_4,12
	DB	G_4,12
	DB	A4,18

SEQ20

DB	ADSR,1
DB	C_2,18
DB	C_2,06
DB	C_3,06
DB	C_2,06
DB	C_3,12
DB	C_2,18
DB	C_2,06
DB	C_3,06
DB	C_2,06
DB	C_3,12
DB	C_2,18
DB	C_2,06
DB	C_3,06
DB	C_2,06
DB	C_3,12
DB	C_2,18
DB	C_2,06
DB	C_3,06
DB	C_2,06
DB	C_3,12
DB	END

SEQZ1

```
DB      ADSR,4
DB      F_2,06
DB      F_3,06
DB      F_2,06
DB      F_3,12
DB      F_2,06
DB      F_3,12
DB      F_2,06
DB      F_3,06
DB      F_2,06
DB      F_3,12
DB      F_2,06
DB      F_3,12
DB      F_2,06
DB      F_3,06
DB      F_2,06
DB      F_3,12
DB      F_2,06
DB      F_3,12
DB      F_2,06
DB      END
```

SEQ22

```
DB      ADSR, 8
DB      F_4, 60
DB      F_4, 12
DB      E4, 12
DB      F_4, 12
DB      G4, 18
DB      A4, 18
DB      G4, 12
DB      F_4, 18
DB      E4, 18
DB      C_4, 12
DB      D_4, 48
DB      E4, 48
DB      F4, 48
DB      F_4, 48
DB      END
```

SEQ23

```
DB  ARPEG,3
DB  DRUM,3,24
DB  ARPEG,4
DB  DRUM,4,24
DB  ARPEG,3
DB  DRUM,3,24
```

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DB ARPEG,4
DB DRUM,4,24
DB ARPEG,3
DB DRUM,3,24
DB ARPEG,4
DB DRUM,4,24
DB ARPEG,3
DB DRUM,3,24
DB ARPEG,4
DB DRUM,4,24
DB ARPEG,0
DB END
,*****
LELLY1 DB TRANSPOSE,-12
DB 24,27,28
DB 29
DB REPEAT
DW LELLY1

LELLY2 DB 26,26,26,26
DB 26,26,26,30
DB 31,31,31,31
DB 31,31,31,31
DB 31,31,31,30
DB REPEAT
DW LELLY2

LELLY3 DB TRANSPOSE,00
DB 25
DB TRANSPOSE,3
DB 25
DB TRANSPOSE,2
DB 25
DB TRANSPOSE,1
DB 25
DB TRANSPOSE,00
DB 25
DB TRANSPOSE,3
DB 25
DB TRANSPOSE,2
DB 25
DB TRANSPOSE,7
DB 25

DB TRANSPOSE,-4
DB 25
DB TRANSPOSE,-5
DB 25
DB TRANSPOSE,-9
DB 25
DB TRANSPOSE,-10
DB 25
DB TRANSPOSE,-4
DB 25
DB TRANSPOSE,-5
DB 25
DB TRANSPOSE,-9
DB 25
DB TRANSPOSE,-10
DB 25

DB TRANSPOSE,-5
DB 25
DB TRANSPOSE,-2
DB 25
DB TRANSPOSE,-6
DB 25
DB TRANSPOSE,-5
DB 25

DB TRANSPOSE,-05
DB 25
DB TRANSPOSE,-02
DB 25
DB TRANSPOSE,-06
DB 25
DB TRANSPOSE,-05
DB 25
DB TRANSPOSE,-02
DB 25

```

DB TRANSPOSE,-09
 DB Z5
 DB TRANSPOSE,-10
 DB Z5
 DB TRANSPOSE,-05
 DB Z5
 DB TRANSPOSE,-02
 DB Z5
 DB TRANSPOSE,-09
 DB Z5
 DB TRANSPOSE,-07
 DB Z5
 DB REPEAT
 DW LELLY3

SEQ24

DB ADSR,7
 DB VIBRATO,3
 DB D_4,6
 DB E4,6
 DB F4,6
 DB F_4,6
 DB G4,48
 DB G4,6
 DB F_4,6
 DB F4,6
 DB E4,6
 DB D_4,72
 DB D_4,06
 DB E4,06
 DB F4,06
 DB F_4,06
 DB D4,72
 DB D4,06
 DB D_4,06
 DB E4,06
 DB F4,06
 DB C_4,72
 DB D_4,06
 DB E4,06
 DB F4,06
 DB F_4,06
 DB G4,72
 DB G4,06
 DB F_4,06
 DB F4,06
 DB E4,06
 DB D_4,72
 DB D_4,06
 DB E4,06
 DB F4,06
 DB F_4,06
 DB D4,72
 DB D4,06
 DB D_4,06
 DB E4,06
 DB F4,06
 DB G4,96
 DB END

SEQ25

DB ADSR,9
 DB C2,12
 DB C3,06
 DB C3,06
 DB C2,12
 DB C3,06
 DB C3,06
 DB C2,12
 DB C3,06
 DB C3,06
 DB C2,12
 DB C3,06
 DB C3,06
 DB END

SEQ26

DB DRUM,3,12
 DB DRUM,7,06
 DB DRUM,7,06
 DB DRUM,4,12
 DB DRUM,7,06
 DB DRUM,7,06

	DB	DRUM,3,12
	DB	DRUM,7,06
	DB	DRUM,7,06
	DB	DRUM,4,12
	DB	DRUM,7,06
	DB	DRUM,7,06
	DB	END
SEQ30	DB	DRUM,3,12
	DB	DRUM,7,06
	DB	DRUM,7,06
	DB	DRUM,3,12
	DB	DRUM,4,06
	DB	DRUM,7,06
	DB	DRUM,4,06
	DB	DRUM,4,06
	DB	DRUM,4,06
	DB	DRUM,3,06
	DB	DRUM,4,06
	DB	DRUM,4,06
	DB	DRUM,4,06
	DB	DRUM,4,06
	DB	END
SEQ31	DB	DRUM,3,24
	DB	DRUM,4,24
	DB	DRUM,3,24
	DB	DRUM,4,24
	DB	DRUM,3,24
	DB	DRUM,4,24
	DB	DRUM,3,24
	DB	DRUM,4,24
	DB	END
SEQ27	DB	G_4,24
	DB	D_4,24
	DB	C4,24
	DB	G_4,24
	DB	A4,24
	DB	D4,24
	DB	B3,24
	DB	G3,24
	DB	F4,06
	DB	F_4,06
	DB	G4,24
	DB	A4,12
	DB	A_4,12
	DB	C5,12
	DB	D5,12
	DB	D_5,12
	DB	D5,24
	DB	A4,24
	DB	F_4,24
	DB	D4,24
	DB	G_4,24
	DB	D_4,24
	DB	C4,24
	DB	G_4,24
	DB	A4,24
	DB	D4,24
	DB	B3,24
	DB	G3,24
	DB	F4,06
	DB	F_4,06
	DB	G4,24
	DB	A4,12
	DB	A_4,12
	DB	C5,12
	DB	D5,12
	DB	D_5,12
	DB	D5,48
	DB	F_5,24
	DB	A5,24
	DB	END
SEQ28	DB	A_5,72
	DB	A5,12
	DB	A_5,12
	DB	A_5,72

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DB A5,12
DB A_5,12
DB C6,36
DB A_5,36

DB D5,24
DB A5,36
DB G5,36
DB D5,24
DB END

SEQ29 DB A_5,72
DB A5,12
DB A_5,12
DB A_5,72

DB A5,12
DB A_5,12
DB C6,36
DB A_5,36

DB D_6,24
DB D6,72
DB C6,12
DB D6,12

DB D6,72
DB C6,12
DB D6,12
DB F6,36

DB D_6,36
DB C6,24
DB C_6,36
DB A5,36

DB D5,24
DB D6,72
DB C6,12
DB D6,12

DB D6,72
DB C6,12
DB D6,12
DB D_6,36

DB F6,36
DB G6,24
DB A_6,48
DB A6,48
DB END

,*****

COMTU1 DB 32
DB TRANSPOSE,-12
DB 34
DB STOP

COMTU2 DB TRANSPOSE,-07+12
DB 32
DB TRANSPOSE,-00
DB 35
DB STOP

COMTU3 DB TRANSPOSE,-10
DB 32
DB TRANSPOSE,00
DB 33
DB STOP

SEQ32 DB ADSR,7
DB VIBRATO,3
DB G3,6
DB G_3,6
DB A3,6
DB A_3,6
DB B3,6
DB C4,6
DB C_4,6

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DB D4,6
 DB D_4,6
 DB E4,6
 DB F4,7
 DB G4,7
 DB G_4,8
 DB A4,8
 DB A_4,8
 DB B4,8
 DB C5,9
 DB C_5,9
 DB D5,9
 DB D_5,9
 DB E5,10
 DB F5,10
 DB REST,02
 DB END

SEQ33

DB ADSR,7
 DB VIBRATO,3
 DB A2,24+(24/6)
 DB G_2,24+(24/6)
 DB F_2,24+(24/6)
 DB E2,12+(12/6)

 DB A1,12+(12/6)
 DB E2,24+(24/6)
 DB D2,24+(24/6)
 DB C_2,24+(24/6)

 DB C_2,12+(12/6)
 DB A1,12+(12/6)
 DB E2,24+(24/6)
 DB E2,12+(12/6)

 DB A1,12+(12/6)
 DB F_2,24+(24/6)
 DB F_2,24+(24/6)
 DB B1,24+(24/6)

 DB A1,24+(24/6)
 DB G_1,24+(24/6)
 DB F_1,24+(24/6)
 DB A1,24+(24/6)

 DB C_2,24+(24/6)
 DB D2,24+(24/6)
 DB C_2,12+(12/6)
 DB A1,12+(12/6)

 DB B1,24+(24/6)
 DB E2,24+(24/6)
 DB A2,24+(24/6)
 DB G_2,12+(12/6)

 DB A2,12+(12/6)
 DB B2,24+3+(24/6)
 DB B2,24+4+(24/6)
 DB E3,24+5+(24/6)

 DB E3,24+6+(24/6)

 DB D3,24+8+(24/6)
 DB C_3,12+8+(12/6)
 DB B2,12+8+(12/6)

 DB A2,48+48+(48/6)
 DB END

SEQ34

DB ADSR,7
 DB VIBRATO,3
 DB C_5,24+(24/6)
 DB E5,24+(24/6)
 DB D5,12+(12/6)
 DB C_5,12+(12/6)

 DB B4,12+(12/6)
 DB C_5,12+(12/6)
 DB B4,24+(24/6)
 DB F_4,12+(12/6)

DB A4,12+(12/6)
 DB G_4,24+(24/6)
 DB F_5,24+(24/6)
 DB E5,72+(72/6)

 DB F_5,24+(24/6)
 DB B4,24+(24/6)
 DB A4,24+(24/6)
 DB G_4,24+(24/6)

 DB E5,24+(24/6)
 DB C_5,36+(36/6)
 DB A4,12+(12/6)
 DB D5,12+(12/6)

 DB C_5,12+(12/6)
 DB B4,12+(12/6)
 DB C_5,12+(12/6)
 DB B4,24+(24/6)

 DB G_4,12+(12/6)
 DB E5,12+(12/6)
 DB C_5,24+(24/6)
 DB B4,12+(12/6)

 DB C_5,12+3+(12/6)
 DB D5,48+9+(48/6)
 DB E5,48+6+(48/6)
 DB F_5,24+8+(24/6)

 DB E5,12+8+(12/6)
 DB D5,12+8+(12/6)
 DB C_5,48+48+(48/6)
 DB END

SEQ35

DB ADSR,7
 DB VIBRATO,3
 DB C_5,24+(24/6)
 DB E5,24+(24/6)
 DB D5,12+(12/6)
 DB C_5,12+(12/6)

 DB B4,12+(12/6)
 DB C_5,12+(12/6)
 DB B4,24+(24/6)
 DB F_4,12+(12/6)

 DB A4,12+(12/6)
 DB G_4,24+(24/6)
 DB F_5,24+(24/6)
 DB E5,36+(36/6)

 DB A4,12+(12/6)
 DB D5,12+(12/6)
 DB C_5,12+(12/6)
 DB B4,12+(12/6)

 DB C_5,12+(12/6)
 DB B4,72+(72/6)
 DB E5,24+(24/6)
 DB C_5,36+(36/6)

 DB A4,12+(12/6)
 DB D5,12+(12/6)
 DB C_5,12+(12/6)
 DB B4,12+(12/6)

 DB C_5,12+(12/6)
 DB B4,24+(24/6)
 DB G_4,12+(12/6)
 DB E5,12+(12/6)

 DB C_5,24+(24/6)
 DB B4,12+(12/6)
 DB C_5,12+(12/6)
 DB D5,24+(24/6)

 DB A5,12+5+(12/6)
 DB F_5,12+2+(12/6)

DB C_5,24+5+(24/6)
 DB B4,24+6+(24/6)

 DB A4,24+8+(24/6)
 DB E4,12+8+(12/6)
 DB D4,12+8+(12/6)
 DB C_4,48+48+(48/6)
 DB END

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 PIGEON1

DB TRANSPOSE,00
 DB 37
 DB TRANSPOSE,01
 DB 37
 DB TRANSPOSE,03
 DB 37
 DB TRANSPOSE,01
 DB 37
 DB TRANSPOSE,00
 DB 41

DB 42,42
 DB TRANSPOSE,07
 DB 42
 DB TRANSPOSE,05
 DB 42
 DB TRANSPOSE,00
 DB 42,42
 DB TRANSPOSE,07
 DB 42
 DB TRANSPOSE,05
 DB 42
 DB TRANSPOSE,00
 DB 42,42
 DB TRANSPOSE,07
 DB 42
 DB TRANSPOSE,05
 DB 42
 DB TRANSPOSE,00
 DB 42,42
 DB TRANSPOSE,07
 DB 42
 DB TRANSPOSE,05
 DB 42

DB TRANSPOSE,00
 DB 44
 DB 44
 DB TRANSPOSE,03
 DB 44
 DB 44
 DB TRANSPOSE,05
 DB 44
 DB 44
 DB TRANSPOSE,03
 DB 44
 DB 44
 DB TRANSPOSE,00
 DB 44
 DB 44
 DB TRANSPOSE,03
 DB 44
 DB 44
 DB TRANSPOSE,05
 DB 44
 DB 44
 DB TRANSPOSE,03
 DB 44
 DB 44
 DB TRANSPOSE,00
 DB 42,42
 DB TRANSPOSE,07
 DB 42
 DB TRANSPOSE,05
 DB 42
 DB TRANSPOSE,00
 DB 42,42
 DB TRANSPOSE,07
 DB 42
 DB TRANSPOSE,05
 DB 42

[illegible]

	DB	C3,06	
	DB	C2,06	
	DB	C2,06	
	DB	C2,06	
	DB	C2,06	
	DB	C2,06	
	DB	C2,06	
	DB	C2,06	
	DB	C3,06	
	DB	C2,06	
	DB	END	
SEQ39	DB	REST,192	
	DB	REST,192	
	DB	END	
SEQ40	DB	DRUM,3,24	
	DB	DRUM,4,24	
	DB	DRUM,3,24	
	DB	DRUM,4,24	
	DB	DRUM,3,24	
	DB	DRUM,4,24	
	DB	DRUM,3,06	
	DB	DRUM,3,06	
	DB	DRUM,3,06	
	DB	DRUM,3,06	
	DB	DRUM,4,06	
	DB	DRUM,3,06	
	DB	DRUM,3,06	
	DB	DRUM,3,06	
	DB	END	
SEQ41	DB	ADSR,7	
	DB	VIBRATO,3	
	DB	D_4,144	
	DB	D4,24	
	DB	D_4,24	
	DB	D_4,144	
	DB	D4,24	
	DB	D_4,24	
	DB	D4,144	
	DB	D_4,24	
	DB	D4,24	
	DB	C4,72	
	DB	C4,06	
	DB	D4,06	
	DB	D_4,06	
	DB	G_4,06	
	DB	D4,96	
	DB	END	
SEQ42	DB	ADSR,8	
	DB	F1,12	
	DB	F1,06	
	DB	F1,06	
	DB	F2,06	
	DB	F1,06	
	DB	F1,06	
	DB	F1,12	
	DB	F1,06	
	DB	F1,06	
	DB	F1,06	
	DB	F2,06	
	DB	F1,06	
	DB	F1,06	
	DB	F1,06	
	DB	END	
SEQ43	DB	ADSR,8	;DER
	DB	VIBRATO,1	
	DB	F3,192	
	DB	D_4,96	
	DB	D4,48	
	DB	ARPEG,3	
	DB	ADSR,6	
	DB	D4,12	

```

DB D4,06
DB D4,06
DB D4,06
DB D4,06
DB D4,06
DB D4,06
DB ARPEG,0
DB ADSR,8
DB F3,192
DB D_4,96
DB D4,48
DB ARPEG,3
DB ADSR,6
DB D4,12
DB D4,06
DB D4,06
DB D4,06
DB D4,06
DB D4,06
DB D4,06
DB ARPEG,0

DB ADSR,8
DB F3,192
DB D_4,96
DB D4,96
DB F3,192
DB D_4,96
DB D4,48
DB D_4,48
DB VIBRATO,0
DB END

SEQ44 DB ADSR,7
DB C2,6
DB C2,6
DB C2,6
DB C2,6
DB C3,6
DB C2,6
DB C2,6
DB C2,6
DB C2,6
DB C2,6
DB C2,6
DB C2,6
DB C2,6
DB C3,6
DB C2,6
DB C2,6
DB C2,6
DB END

SEQ45 DB ADSR,8
DB VIBRATO,3
DB G_3,36
DB G3,12
DB G3,96
DB D_3,24
DB F3,24
DB G_3,36
DB G3,12
DB G3,144
DB G3,36
DB F3,12
DB C3,120
DB D3,24
DB F3,36
DB D_3,12
DB A_2,144
DB VIBRATO,0
DB END
;*****
HICORE1 DB TRANSPOSE,0
DB 48,48,48,48
DB TRANSPOSE,-12
DB 49,49
DB 49,49
DB STOP

HICORE2 DB 46,46,46,46,46,46,46,46,46

```

HICORE3 DB STOP
DB 47,47,47,47,47,47
DB STOP

SEQ46

DB ADSR,3
DB D_1,36-12

DB ARPEG,3
DB ADSR,5
DB D_3,12
DB ARPEG,0

DB ADSR,3
DB D_1,12
DB D_1,36-12

DB ARPEG,3
DB ADSR,5
DB D_3,12
DB ARPEG,0

DB ADSR,3
DB D_1,12
DB D_1,24

DB ARPEG,3
DB ADSR,5
DB D_3,12
DB ARPEG,0

DB ADSR,3
DB D_1,24
DB D_1,24-12

DB ARPEG,3
DB ADSR,5
DB D_3,12
DB ARPEG,0
DB REST,12
DB END

SEQ47

DB DRUM,3,24
DB DRUM,4,24
DB DRUM,3,12
DB DRUM,3,12

DB DRUM,4,24
DB DRUM,3,24
DB DRUM,4,18
DB DRUM,3,18

DB DRUM,3,12
DB DRUM,4,24
DB DRUM,3,24
DB DRUM,4,24

DB DRUM,3,12
DB DRUM,3,12
DB DRUM,4,36
DB DRUM,4,06
DB DRUM,4,06

DB DRUM,4,06
DB DRUM,4,12
DB DRUM,3,06
DB DRUM,4,12

DB DRUM,4,06
DB DRUM,4,06
DB DRUM,3,06
DB DRUM,4,06
DB DRUM,4,12
DB END

SEQ48

DB REST,12
DB ADSR,4
DB ARPEG,3
DB G_4,12

```

DB D_5,12
DB G_4,12
DB G_5,12
DB G_4,12
DB D_5,12
DB G_4,12
DB ARPEG,0
DB END

```

SEQ49

```

DB ADSR,8
DB VIBRATO,2
DB C5,6
DB C_5,6
DB C5,6
DB G_4,6
DB D_4,86

DB ADSR,5

DB ARPEG,3

DB C_5,12
DB C5,12
DB G_4,12
DB D_4,12
DB G_4,12
DB C5,12
DB A_4,12

DB ARPEG,0

DB ADSR,8

DB A_4,6
DB B4,6
DB A_4,6
DB F_4,6
DB C_4,82

DB ADSR,5

DB ARPEG,3

DB B4,12
DB A_4,12
DB G_4,12
DB C_5,12
DB C5,12
DB A_4,12
DB G_4,12

DB ARPEG,0

DB END

```

```

JUMP1 DB TRANSPOSE,00
      DB 50,50
      DB 52
      DB TRANSPOSE,03
      DB 52
      DB REPEAT
      DW JUMP1

```

```

JUMP2 DB TRANSPOSE,00
      DB 51,51,51,51
      DB 51,51
      DB TRANSPOSE,03
      DB 51
      DB TRANSPOSE,03
      DB 51
      DB REPEAT
      DW JUMP2

```

```

JUMP3 DB 53
      DB REPEAT
      DW JUMP3

```



```

SEQ50      DB  ADSR,7
            DB  ARPEG,3
            DB  G3,60
            DB  G3,12
            DB  A3,12
            DB  G3,12
            DB  F_3,24
            DB  C_4,72
            DB  G_3,60
            DB  G_3,12
            DB  A_3,12
            DB  G_3,12
            DB  G3,24+72
;DB  D4,72
            DB  ARPEG,0
            DB  END

SEQ51      DB  ADSR,8
            DB  C1,12
            DB  C1,12
            DB  C2,12
            DB  C2,12

            DB  C1,12
            DB  C1,12
            DB  C2,12
            DB  C2,12

            DB  C1,12
            DB  C1,12
            DB  C2,12
            DB  C2,12

            DB  C1,12
            DB  C1,12
            DB  C2,12
            DB  C2,12
            DB  END

SEQ52      DB  ADSR,7
            DB  ARPEG,12
            DB  G4,48
            DB  D_4,18
            DB  F4,24
            DB  F_4,06
            DB  G4,48
            DB  D_4,18
            DB  F4,24
            DB  F_4,06
            DB  G4,48
            DB  D_4,18
            DB  F4,24
            DB  F_4,06
            DB  G4,48
            DB  D_4,06
            DB  F4,06
            DB  F_4,06

            DB  G4,06
            DB  D_4,06
            DB  F4,06
            DB  F_4,06
            DB  G4,06
            DB  ARPEG,0
            DB  END

SEQ53      DB  DRUM,3,24
            DB  DRUM,4,12
            DB  DRUM,7,06
            DB  DRUM,7,06
            DB  DRUM,3,06
            DB  DRUM,3,06
            DB  DRUM,3,06
            DB  DRUM,3,06
            DB  DRUM,3,06
            DB  DRUM,4,12
            DB  DRUM,7,06
            DB  DRUM,7,06
            DB  DRUM,3,24
            DB  DRUM,4,30
            DB  DRUM,3,06

```

```

DB DRUM,3,12
DB DRUM,4,12
DB DRUM,7,06
DB DRUM,7,06
DB END
;*****
TITLE1 DB 65,65,65,65
TIT1 DB 54,54,54,54
DB 54,54,55
DB 54,54,55
DB TRANSPOSE,-3
DB 54
DB TRANSPOSE,-3
DB 54
DB TRANSPOSE,-7
DB 54
DB TRANSPOSE,-5
DB 54
DB TRANSPOSE,-3
DB 54
DB TRANSPOSE,-3
DB 54
DB TRANSPOSE,-7
DB 54
DB TRANSPOSE,-5
DB 54
DB 59,59
DB TRANSPOSE,+5
DB 59
DB TRANSPOSE,+5
DB 59
DB TRANSPOSE,+7
DB 59
DB TRANSPOSE,+8
DB 59
DB TRANSPOSE,+9
DB 59
DB TRANSPOSE,+10
DB 59
DB TRANSPOSE,-3
DB 54
DB TRANSPOSE,-2
DB 54
DB TRANSPOSE,-8
DB 54
DB TRANSPOSE,00
DB 61
DB 62
DB REPEAT
DW TIT1

TITLE2 DB 54,54,54,54
TIT2 DB 56
DB 57
DB 57
DB 58,60
DB 63
DB REPEAT
DW TIT2

TITLE3 DB 66,66,66,67
TIT3 DB 23,23,23,64,23,64
DB 23,23,23,23,23,23,23
DB 23
DB REPEAT
DW TIT3
;*****
SEQ54 DB ADSR,6
DB C1,06
DB C1,06
DB C2,06
DB C2,06

DB C1,06
DB C1,06
DB C2,06
DB C2,06

DB C1,06
DB C1,06

```

	DB C2,06
	DB C2,06
	DB C1,06
	DB C1,06
	DB C2,06
	DB C2,06
SEQ55	DB END
	DB C1,06
	DB C1,06
	DB C2,06
	DB C2,06
	DB C1,06
	DB C1,06
	DB C2,06
	DB C2,06
	DB C1,06
	DB C1,06
	DB C2,06
	DB C2,06
	DB C1,06
	DB C1,06
	DB C2,06
	DB C2,06
	DB G_1,06
	DB G_1,06
	DB G_2,06
	DB G_2,06
	DB G_1,06
	DB G_1,06
	DB G_2,06
	DB G_2,06
	DB A_1,06
	DB A_1,06
	DB A_2,06
	DB A_2,06
	DB A_1,06
	DB A_1,06
	DB A_2,06
	DB A_2,06
	DB END
SEQ56	DB ADSR,7
	DB ARPEG,13
	DB G3,60
	DB G3,6
	DB G3,6
	DB G3,6
	DB G3,18
	DB F3,48
	DB F3,24
	DB F3,24
	DB ARPEG,14
	DB A3,60
	DB A3,06
	DB A3,06
	DB A3,06
	DB A3,18
	DB ARPEG,15
	DB G_3,48
	DB G_3,24
	DB G_3,24
	DB ARPEG,0
	DB END
SEQ57	DB DRUM,3,12
	DB ADSR,8
	DB VIBRATO,2
	DB F4,12
	DB E4,12
	DB C4,12
	DB G3,12

DB C4,12
DB E4,12
DB D4,84

DB E4,6
DB F4,6
DB E4,6
DB C4,6
DB G3,12

DB F4,12
DB E4,12
DB C4,12
DB F3,12
DB A3,12
DB C4,24
DB ARPEG,3
DB ADSR,6
DB D_3,06
DB D_3,06
DB D_3,06
DB D_3,06
DB D_3,18
DB D_3,06
DB D3,06
DB D3,06
DB D3,06
DB D3,06
DB D3,24
DB ARPEG,0
DB END

;CHORDS

SEQ58

DB ADSR,8
DB VIBRATO,2
DB C4,01
DB C_4,01
DB D4,01
DB D_4,02
DB E4,48-05
DB A3,96
DB A3,18
DB B3,18
DB C4,12
DB D4,144
DB C4,18
DB B3,18
DB A3,6
DB A_3,6
DB B3,24
DB A3,12
DB E3,108
DB A3,18
DB B3,18
DB C4,12
DB E4,96
DB D4,60
DB C4,18
DB B3,18
DB END

SEQ59

DB ADSR,7
DB F_1,12
DB F_2,06
DB F_1,12
DB F_1,06
DB F_2,12
DB END

SEQ60

DB ADSR,7
DB VIBRATO,2
DB A3,54
DB E3,06
DB A3,06
DB B3,06
DB C4,06
DB A3,06
DB B3,06
DB C4,06
DB E4,36

	DB	E4,06
	DB	D_4,6
	DB	D4,36
	DB	D4,06
	DB	D_4,6
	DB	E4,36
	DB	D_4,06
	DB	E4,06
	DB	F_4,36
	DB	E4,06
	DB	F_4,06
	DB	G4,36
	DB	F_4,06
	DB	G4,06
	DB	G_4,48
	DB	END
SEQ61	DB	ADSR,5
	DB	E1,6
	DB	E1,6
	DB	E2,6
	DB	E2,6
	DB	E1,6
	DB	E1,6
	DB	E2,12
	DB	C2,12
	DB	C2,12
	DB	D2,24
	DB	END
SEQ62	DB	ADSR,5
	DB	E2,84
	DB	E2,06
	DB	E2,06
	DB	D_2,48
	DB	D_2,06
	DB	D_2,06
	DB	D_2,12
	DB	D2,24
	DB	END
SEQ63	DB	ADSR,8
	DB	E4,78
	DB	C4,06
	DB	C_4,06
	DB	D4,06
	DB	E4,78
	DB	C4,06
	DB	C_4,06
	DB	D4,06
	DB	E4,84
	DB	E4,24
	DB	E4,12
	DB	E4,24
	DB	ADSR,5
	DB	ARPEG,3
	DB	C3,06
	DB	C3,06
	DB	C3,12
	DB	D3,06
	DB	D3,06
	DB	D3,12
	DB	E3,84
	DB	E3,06
	DB	E3,06
	DB	D_3,48
	DB	D_3,06
	DB	D_3,06
	DB	D_3,12
	DB	D3,06
	DB	D3,06
	DB	D3,06
	DB	D3,06
	DB	ARPEG,0
	DB	END
SEQ64	DB	DRUM,3,24
	DB	DRUM,4,24
	DB	DRUM,3,24
	DB	DRUM,4,24

DB DRUM,3,06
DB DRUM,3,06
DB DRUM,3,06
DB DRUM,3,06
DB DRUM,3,06
DB DRUM,3,06
DB DRUM,3,06

DB DRUM,3,06
DB DRUM,3,06
DB DRUM,3,06
DB DRUM,3,06
DB DRUM,3,06
DB DRUM,3,12
DB DRUM,3,06
DB DRUM,3,06
DB END

SEQ65

DB ADSR,8
DB C1,24
DB C1,24
DB C1,24
DB C1,24
DB END

SEQ66

DB ADSR,4
DB C2,06
DB C2,06
DB C2,06
DB C3,06
DB C2,06
DB C2,06
DB C2,06
DB C3,06
DB C2,06
DB C2,06
DB C3,06
DB C2,06
DB C2,06
DB C3,06
DB C2,06
DB C3,06
DB C2,06
DB END

SEQ67

DB DRUM,3,06
DB ADSR,4
DB C2,06
DB C2,06
DB C3,06
DB DRUM,3,06
DB ADSR,4
DB C2,06
DB C2,06
DB C3,06
DB DRUM,3,06
DB DRUM,3,06
DB ADSR,4
DB C2,06
DB C3,06
DB DRUM,4,06
DB DRUM,4,06
DB DRUM,4,06
DB DRUM,4,06
DB END

; ** END OF MUSIC FILE **

MUSICEND

ENDF

; ** END OF FILE **
