MINI-TREK
BY FRANK MCCOY 1/7/77

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10 ?=""                              PRINT A CARRIAGE RETURN-LINE FEED
20 ?="           *MINI-TREK*"        PRINT HEADING
30 W=`/2500+10                       SETUP NUMBER OF KLINGONS (10-36)
40 D=0-(`/6000+31*W/19)              SETUP NUMBER OF STARDATES
50 L=10000                           SET INITIAL ENERGY TO 10000
60 X=0                               INITIALIZE LOOP COUNTER
70 S=10                              POINT STARBASE OUTSIDE OF QUADRANT
80 T=10                                "        "       "     "    "
90 A=0                               INITIALIZE KLINGON COUNTER
100 X=X+1                            POINT TO NEXT SECTOR IN QUADRANT
110 :X)=0                            CLEAR SECTOR
120 #=X<64*100                       HAVE ALL 64 SECTORS BEEN CLEARED?
130 X=1                              RESET LOOP COUNTER
140 #=`/13*0+%>2*170                 PROB. OF 2 IN 13 OF A STAR OR KLINGON
150 :X)=`/5*0+%=0*(A<W)+1            PROB OF 1 IN 5 OF STAR BEING KLINGON
160 A=:X)=2+A                        IF KLINGON THEN INCREMENT COUNTER
170 X=X+1                            INCREMENT SECTOR COUNTER
180 #=X<65*140                       SEE IF ALL 64 SECTORS HAVE BEEN SETUP
190 X=`/64*0+%+1                     POSITION ENTERPRISE AT RANDOM
200 :X)=3
210 E=X-1/8                          SAVE SECTOR COORDINATES
220 F=%+1
230 #=`>20000*290                    PROB. OF A STARBASE APPROX 1 IN 4
240 J=`/64*0+%+1                     POSITION STARBASE AT RANDOM
250 #=J=X*240                        DO IT AGAIN IF ENTERPRISE IN SAME PLACE
260 :J)=4
270 S=J-1/8                          SAVE STARBASE COORDINATES
280 T=%+1
290 C=S<E*(E-S)+(E<S*(S-E))          FIND OUT HOW CLOSE THE ENTERPRISE
300 G=T<F*(F-T)+(F<T*(T-F))          IS TO A STARBASE
310 Q=C<2*(G<2)                      IF CLOSE ENOUGH ENTERPRISE IS DOCKED
320 D=D+1                            INCREMENT STARDATE
340 L=Q*10000+(Q=0*L)*(L<10001)      SET ENERGY IF DOCKED OR ENERGY IS NEG.
350 ?=""                             PRINT CRLF
370 ?="##########"                   PRINT TOP BORDER OF SCAN
380 X=1                              INITIALIZE LINE COUNT OF SCAN
390 K=0                              SET UP TO COUNT KLINGONS
400 J=1                              INITIALIZE COLLUMN COUNT
420 ?="#";                           PRINT LEFT BORDER
430 C=:X-1*8+J)                      FIND OUT WHATS IN THAT SECTOR
440 $=C*14+32+(C=2*15)-(C=3*5)-(C=4*22)   PRINT SPACE,.,E,B,OR K
450 K=C=2+K                          INCREMENT IF KLINGON
460 J=J+1                            NCREMENT SECTOR
470 #=J<9*430                        IF NOT LAST IN ROW THEN GET NEXT
480 ?="#   ";                        PRINT RIGHT BORDER
490 #=X<4*750                        FIRST FOUR LINES BLANK
500 #=X>5*(X*30+400)                 PRINT THE APPROPRIATE DATA FOR EACH LINE
510 ?="SECTOR      ";                PRINT THE SECTOR NUMBER
520 ?=E+1
530 ?=F
540 #=750
550 ?="STARDATE    ";                PRINT THE STARDATE
560 ?=D
570 #=750
580 ?="ENERGY      ";                PRINT THE ENERGY REMAINING
590 ?=L
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600 #=750
610 ?="KLINGONS   ";          PRINT THE # OF KLINGONS REMAINING
620 ?=W
630 #=750
640 ?="CONDITION ";           PRINT THE CONDITION (RED, GREEN, ETC.)
650 #=Q*690                    IF DOCKED
660 #=K=0*710                  IF NO KLINGONS IN VICINITY
670 ?="RED";                   IF KLINGONS ARE PRESENT
680 #=750
690 ?="DOCKED";               IF NEXT TO A STARBASE
700 #=750
710 #=L<2000*740              IF ENERGY IS LOW GOTO 740
720 ?="GREEN";                IF NO KLINGONS IN QUADRANT
730 #=750
740 ?="YELLOW";               IF ENERGY IS LOW
750 ?=""                       PRINT A CRLF
760 X=X+1                       INCREMENT LINE NUMBER
770 #=X<9*400                  IF NOT LAST LINE THEN REPEAT
780 ?="##########"             PRINT BOTTOM BORDER OF SCAN
790 ?=""                        PRINT CRLF
800 #=K=0*840                  IF NO KLINGONS PRESENT THEN SKIP NEXT
810 H='/250*K                  FIND OUT HOW HARD YOU GOT ZAPPED
820 ?=H                         PRINT THE VALUE
830 ?=" UNIT HIT FROM KLINGONS" PRINT MESSAGE
835 L=L-H                       SUBTRACT VALUE OF HIT FROM ENERGY LEFT
840 #=W=0*1190                 IF NO KLINGONS LEFT THEN YOU WON
850 #=D=0+(:E*8+F)=0)+(L-1>10000))>1*1210   SEVERAL WAYS TO LOSE
860 ?="COMMAND? ";            PROMPT
870 A=?                         INPUT THE COMMAND #
880 #=A-1>3*860                IF ILLEGAL COMMAND THEN REPEAT
890 #=A>2*(A*20+940)           GOTO APPRORIATE COMMAND ROUTINE
900 #=1060                      GOTO THE SECTOR SUBROUTINE
910 #=:O)>1*900                YOU CAN'T JUMP WHERE SOMETHING IS
920 :E*8+F)=0                   YOU ARE NO LONGER THERE
930 :O)=3                       YOUR NEW LOCATION
940 E=M                         SAVE NEW COORDINATES
950 F=N                              "    "
960 L=L-G                       SUBTRACT ENERGY NEEDED TO MOVE
970 #=290                       PRINT OUT NEW MAP
980 L=L-('/250+300)            LESS ENERGY TO MOVE TO A NEW QUADRANT
990 #=60                        SETUP NEW QUADRANT
1000 #=1060                     GOTO THE SECTOR SUBROUTINE
1010 #='<7800*1040             RANDOM MISS
1020 W=W-(:O)=2)                IF ITS A KLINGON THEN ONE LESS KLINGON
1030 :O)=0                      WHATEVER IT WAS IT'S DEAD
1040 L=L-(G*2)                  SUBTRACT ENERGY NEEDED TO SHOOT
1050 #=290                      PRINT OUT NEW MAP
1060 ?="SECTOR? ";            SECTOR SUBROUTINE
1070 M=?/10-1                   INPUT COORDINATES
1080 N=%
1090 O=M*8+N                    FIND WHERE THEY ARE IN THE ARRAY
1100 #=O-1>64*840              RETURN TO COMMAND IF ILLEGAL COORDINATES
1110 C=M-E*(M-E)+(N-F*(N-F))*100  SUM OF SQUARES OF TWO DISTANCES
1120 R=!                        SAVE RETURN ADDRESS
1130 G=C/10                     SETUP FOR SQUARE ROOT
1140 #=G=0*R                    RETURN IF ZERO DISTANCE
1150 J=G                        SAVE APPROXIMATION
1160 G=C/G+G/2                  CALCULATE SQUARE ROOT
1170 #=G<J*1150                IF NEW APPROXIMATION IS BETTER THEN CONT
1180 #=R                        RETURN
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1190 ?="YOU WIN!!"              IF YOU WON
1200 #=1220                     SKIP NEXT
1210 ?="YOU LOSE!"              IF YOU LOST
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THIS MINI VERSION OF STARTREK HAS ONLY THREE COMMANDS:

1.   MOVE TO A DIFFERENT SECTOR
2.   MOVE TO A DIFFERENT QUADRANT
3.   FIRE AT A GIVEN SECTOR

NOTES: THE FURTHER YOU MOVE OR THE FURTHER AWAY YOUR TARGET THE
         MORE ENERGY IT TAKES

         IF YOU RUN OUT OF STARDATES OR ENERGY YOU LOSE

         IF YOU ZAP YOURSELF, YOU LOSE

         NOT ALL QUADRANTS HAVE STARBASES IN THEM

A SAMPLE PRINTOUT LOOKS LIKE THIS:

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##########
#.    .. #
#  K    #
#  E  .  #
#    .   #     SECTOR     33
#KK   .  #     STARDATE   65437
#        #     ENERGY     5736
#  B   .#      KLINGONS   15
#..      #     CONDITION  RED
##########
```

586 UNIT HIT FROM KLINGONS
COMMAND?