

```

3470 PRINT "The Federation is maintaining";B9;"starbase";X$;" in the galaxy"
3480 GOTO 2450
3490 PRINT "Your stupidity has left you on your own in"
3500 PRINT " the galaxy -- you have no starbases left!":GOTO 2450
3510 !TORPEDO, BASE NAV, D/D CALCULATOR
3520 IF K3<=0 THEN 1770
3530 X$="":IF K3>1 THEN X$="s"
3540 PRINT "From Enterprise to Klingon battle cruiser";X$
3550 H8=0:FOR I=1 TO 4:IF K(I,3)<=0 THEN 3810
3560 W1=K(I,1):X=K(I,2)
3570 C1=S1:A=S2:GOTO 3620
3580 PRINT "Direction/Distance Calculator"
3590 PRINT "You are at quadrant";Q1;" ";Q2;" sector";S1;" ";S2
3600 PRINT "Please enter":INPUT "Initial co-ordinates (X,Y)";C1,A
3610 INPUT " Final co-ordinates (X,Y)";W1,X
3620 X=X-A:A=C1-W1:IF X<0 THEN 3700
3630 IF A<0 THEN 3720
3640 IF X>0 THEN 3660
3650 IF A=0 THEN C1=5:GOTO 3670
3660 C1=1
3670 IF ABS(A)<=ABS(X) THEN 3690
3680 PRINT "Direction =";C1+(((ABS(A)-ABS(X))+ABS(A))/ABS(A)):GOTO 3770
3690 PRINT "Direction =";C1+(ABS(A)/ABS(X)+.00001):GOTO 3770
3700 IF A>0 THEN C1=3:GOTO 3730
3710 IF X<>0 THEN C1=5:GOTO 3670
3720 C1=7
3730 IF ABS(A)>=ABS(X) THEN 3750
3740 PRINT "Direction =";C1+(((ABS(X)-ABS(A))+ABS(X))/ABS(X)):GOTO 3770
3750 PRINT "Direction =";C1+(ABS(X)/ABS(A))
3770 LEO=SQR(X^2+A^2)
3780 IF W1=B4 THEN LEO=LEO/10
3790 PRINT "Distance =";LEO
3800 IF H8=1 THEN 730
3810 NEXT I:GOTO 730
3820 IF B3<>0 THEN PRINT "From Enterprise to Starbase:";W1=B4:X=B5:GOTO 3570
3830 PRINT "Spock: Sensors show no Starbases in this quadrant.":GOTO 730
3850 ! FIND AN EMPTY PLACE IN THE QUADRANT
3860 R1=FNR(1):R2=FNR(1):A$=" " :Z1=R1:Z2=R2:GOSUB 4050:IF Z3=0 THEN 3860
3870 RETURN
3880 ! INSERT IN STRING ARRAY FOR QUADRANT
3890 S8=INT(Z2-.5)*3+INT(Z1-.5)*24+1
3900 IF LEN(A$)<>3 THEN PRINT "***** Error ***** Invalid ship":GOTO 4590
3910 IF S8=1 THEN Q$=A$+MID$(Q$,4,189):RETURN
3920 IF S8=190 THEN Q$=LEFT$(Q$,189)+A$:RETURN
3930 Q$=LEFT$(Q$,S8-1)+A$+MID$(Q$,S8+3,190-S8):RETURN
3940 ! PRINTS DEVICE NAME
3950 ON R1 GOTO 3960,3970,3980,3990,4000,4010,4020,4030
3960 G2$="Warp Engines":RETURN
3970 G2$="Short Range Sensors":RETURN
3980 G2$="Long Range Sensors":RETURN
3990 G2$="Phaser Control":RETURN
4000 G2$="Photon Tubes":RETURN
4010 G2$="Shield Control":RETURN
4020 G2$="Damage Control":RETURN
4030 G2$="Library-Computer":RETURN
4040 ! STRING COMPARISON IN QUADRANT ARRAY
4050 Z1=INT(Z1+.5):Z2=INT(Z2+.5):S8=(Z2-1)*3+(Z1-1)*24+1:Z3=0
4060 IF MID$(Q$,S8,3)<>A$ THEN RETURN
4070 Z3=1:RETURN
4080 ! QUADRANT NAME IN G2$ FROM Z4,Z5=Q1,Q2
4090 ! CALL WITH G5=1 TO GET REGION NAME ONLY
4100 IF Z5<=4 THEN ON Z4 GOTO 4120,4130,4140,4150,4160,4170,4180,4190
4110 GOTO 4200

```

```
4120 G2$="ANTARES":GOTO 4290
```

```
4130 G2$="RIGEL":GOTO 4290
```

```
4140 G2$="SPROCKEN":GOTO 4290
```