```
Filename:1.RUN MENU↵
"1.COGO"↵
"2.CADESTER"↵
"3.CURVE"?→Z↵
Z=1⇒Prog "COGO":Z=2⇒Prog"CADES":Z=3⇒Prog"CURVE"↵
↵
Filename:2L-INTERSECT↵
↵
Cls↵
"CTRL N1"?→A:"CTRL E1"?→B↵
Cls↵
"BRG 1"?→E↵
E→W:Prog "P9"↵
W→E↵
Cls↵
Rec(10000,E)↵
I+A→G↵
J+B→H↵
((G-A)÷(H-B))→M↵
"CTRL N2"?C:"CTRL E2"?D↵
Cls↵
"BRG 2"?→F↵
F→W:Prog "P9"↵
W→F↵
Rec(10000,F)↵
I+C→K↵
J+D→L↵
((K-C)÷(L-D))→N↵
A-MB→O↵
C-ND→P↵
(P-O)÷(M-N)→Q↵
QM+O→R↵
Cls↵
"N INTERSECT":R◢
"E INTERSECT":Q◢
↵
Filename:BRG-DIST↵
↵
Cls↵
Deg:Fix 4↵
"CTRL PT N"?→N:"CTRL PT E"?→E↵
Lbl 0:Cls↵
"PT N"?→Y↵
Y=-99⇒Stop↵
"PT E"?→X↵
Pol(Y-N,X-E)↵
Prog "IF BRG"↵
CLs↵
"BRG":W>DMS◢
```

```
"JRK":I◢
Goto 0↵
Filename:CADES↵
↵
Cls↵
"1.TRV-DIR COMP"↵
"2.SOLAR OBS"?→Z↵
Z=1⇒Prog "TRAV-DIR-COM"↵
Z=2⇒Prog "SOLAR"↵
↵
Filename:CIR↵
↵
Cls↵
"1.CENTER2P"↵
"2.DEFLECTION"?→Z↵
Z=1⇒Prog "CIRCULAR":Z=2⇒Prog "DEFLECT"↵
↵
Filename:CIRCULAR↵
↵
Cls↵
30→DimZ↵
ClrMemory↵
Deg:Clrstat:FreqOff:Fix 3↵
0→Z[1]↵
"CIRCULAR"↵
"IP ANG"?→C↵
C→W↵
Prog "P9"↵
W→C↵
0→W↵
Cls↵
"Radius"?→R↵
Cls↵
"1.LEFT"↵
"2.RIGHT"?→K↵
Cls↵
"IP COORD N"?→N↵
"IP COORD E"?→E↵
Cls↵
"CH ST"?→D↵
Cls↵
"COORD CH N OR TAN"?→O↵
"COORD CH E OR TAN"?→P↵
Cls↵
"CTL STN N"?→Z[21]↵
"CTL STN E"?→Z[22]↵
Cls↵
Lbl 0↵
Z[1]+1→Z[1]↵
```

```
"SET OUT CH"?→F↵
"SET OUT OF"?→U↵
Cls↵
(W×(2πR))÷360→H↵
Pol(O-N,P-E):Cls↵
If J<0: Then J+360→Z:Else J→Z: IfEnd↵
I+D→G↵
tan((C÷2))×R→L↵
G-L→Q↵
((F-Q)×360)÷(2πR)→A↵
Q+H→M↵
Rec(L,Z):Cls↵
N+I→Y↵
E+J→X↵
If K≒1:Then Rec(R,Z-90):I+Y→S:J+X→T:Rec(R,Z+90+C):I+S→V:J+T→W↵
Rec(R-U,Z+90+A):I+S→G:J+T→Z↵
Else Rec(R,Z+90):I+Y→S:J+X→T:Rec(R,Z-90-C):I+S→V:J+T→W↵
Rec(R+U,Z-90-A):I+S→G:J+T→Z:IfEnd↵
G→Z[25]↵
Z→Z[26]↵
"POIN CORD N":G◢
"POIN CORD E":Z◢
Prog "P7"↵
Cls↵
"BRG TO PT":W>DMS◢
"DIST TO PT":I◢
Cls↵
If Z[1]>1:Then Goto 0:IfEnd↵
"PC CORD N":Y◢
"PC CORD E":X◢
Cls↵
"PT CORD N":V◢
"PT CORD E":W◢
Cls↵
"ARC LENGTH":H◢
Cls↵
"PC CHN":Q◢
"PT CHN":M◢
Cls↵
Goto 0↵
↵
Filename:COGO↵
↵
Cls↵
"1.POINT"↵
"2.LINE"?→Z↵
Z=1⇒Prog "PT":Z=2⇒Prog "LINE"↵
↵
Filename:CURVE↵
```

```
↵
Cls↵
"1.CIRCULAR"↵
"2.SPIRAL"?→Z↵
Z=1⇒Prog "CIR":Z=2⇒Prog "SP"↵
↵
Filename:DEFLECT↵
↵
Cls↵
Deg:Fix 4↵
Q+L→Q↵
Z[3]=-99⇒Goto 0↵
"SC N"?→N↵
"SC E"?→E↵
Cls↵
"CH SC"?→Q↵
Cls↵
"IP N"?→G↵
"IP E"?→H↵
Cls↵
"1.LEFT"↵
"2.RIGHT"?→K↵
Cls↵
"RADIUS"?→R↵
Cls↵
Lbl 0↵
"CTL N"?→Z[21]↵
"CTL E"?→Z[22]↵
Cls↵
Lbl 2↵
"CH TO SET"?→P↵
P-Q→D↵
((D÷(2πR))×360)÷2→B↵
B×2→A↵
Z[3]=-99⇒Goto 1↵
Pol(G-N,H-E)↵
Prog "IF BRG"↵
Lbl 1↵
(R÷Sin((180-A)÷2))×sin(A)→C↵
If K=1:Then Rec(C,U-B):Else Rec(C,U+B):IfEnd↵
"N PT":I+N◢
"E PT":J+E◢
I+N→Z[25]↵
J+E→Z[26]↵
Prog "P7"↵
"Brg TO PT":W>DMS◢
"DIST TO PT":I◢
Goto 2↵
↵
```

```
Filename:IF-BRG↵
↵
IF J<0:Then J+360→W:Else J→W:IfEnd↵
Return↵
↵
Filename:KIBLAT↵
↵
21.25156→A↵
A→W↵
Prog "P9"↵
W→A↵
39.49291→L↵
L→W↵
Prog "P9"↵
W→L↵
"LAT(N)DMS"?→B↵
B→W↵
Prog "P9"↵
W→B↵
"LONG(E)DMS"?→M↵
M→W↵
Prog "P9"↵
W→M↵
sin(M-L÷((cos(B)×tan(A))-(sin(B)×cos(M-L)))→T↵
tan⁻¹ (T)→T↵
If B>A:Then 180-T→T:Else 360-T→T:IfEnd↵
"BEARING KIBLAT":T>DMS◢
↵
Filename:LINE↵
↵
Cls↵
"1.ONLINE"↵
"2.OFFSET"↵
"NEXT→EXE"◢
Cls↵
"3.2LINTERSECT"↵
"4.ASKAZE ONLINE"?→Z↵
Z=1⇒Prog "ONLINE":Z=2⇒Prog "OFFSET":Z=3⇒Prog"2L-INTERSECT":Z=4⇒Prog "ONLINE1"↵
↵
Filename:LVL CALC↵
↵
Cls:ClrStat↵
"TBM"?→A↵
"BS"?→B↵
Cls↵
A+B→C↵
0→K↵
Lbl 0↵
Isz K↵
```

```
Cls↵
"PT"?→D↵
D=-99⇒Stop↵
C-D→E↵
"LVL=":E◢
E→List X[K]↵
Goto 0↵
↵
Filename:OFFSET↵
↵
Cls↵
Deg:Fix 4↵
"N1"?→Y:"E1"?→X↵
Cls↵
"N2"?→N:"E2"?→E↵
Cls↵
N=Y⇒Y+0.0000001→Y↵
E=X⇒X+0.0000001→X↵
Lbl 0↵
"N PT"?→S↵
If S=-99:Then Stop:Else "E PT"?→T↵
IfEnd↵
Cls↵
(Y-N)÷(X-E)→M↵
(MX+((1÷M)×T)-Y+S)÷(M+(1÷M))→Q↵
Y+M(Q-X)→P↵
√((T-Q)² + (S-P)²)→O↵
√((P-Y)² + (Q-X)²)→L↵
"N CL":P◢
"E CL":Q◢
Cls↵
"CH":L◢
Pol(N-Y,X-E)↵
Prog "If BRG"↵
W→A↵
Pol(S-P,T-Q)↵
Prog "IF BRG"↵
W→B↵
A>270⇒Goto A↵
A>180⇒Goto B↵
A>90⇒Goto B↵
A>0⇒Goto C↵
Lbl A↵
B>180⇒-O→O↵
Goto D↵
Lbl B↵
B<A⇒-O→O↵
Goto D↵
Lbl C↵
```

```
B>270⇒-O→O↵
LBL D↵
"OFST":O◢
Goto 0↵
↵
Filename:ONLINE↵
↵
Cls↵
Deg:Fix 4↵
"N1"?N:"E1"?E↵
Cls↵
"N2"?Y:"E2"?X↵
Cls↵
"Ans IN?"↵
"1.COORD"↵
"2.BRG DST"?→M↵
Cls↵
If M=1:Then Goto 1:Else↵
"CTRL N"?C:"CTRL E"?D↵
IfEnd↵
Lbl 1↵
Pol(Y-N,X-E)↵
If J<0:Then J+360→Z:Else J→Z:IfEnd↵
"BRG ALGN":Z>DMS◢
"JRK":I◢
Lbl 0↵
"CHN"?→H:"OFST"?→O↵
If O=0:Then 0.0000001→O:IfEnd↵
If H=0:Then 0.0000001→H:IfEnd↵
Rec(H,Z)↵
I+N→A↵
J+E→B↵
If O<0:Then Z-90→T:cos(T)×Abs(O)+A→K:sin(T)×Abs(O)+B→L↵
Else Z+90→T:cos(T)×O+A→K:sin(T)×O+B→L:IfEnd↵
If M=1:Then "N PT":K◢
"E PT":L◢
Goto 3↵
Else Goto 2:IfEnd↵
Lbl 2↵
Pol(K-C,L-D)↵
If J<0:Then J+360→:If End↵
Fix 4↵
"BRG TO PT":J>DMS◢
"DIST TO PT":I◢
Lbl 3↵
Norm 1↵
"NEXT PRSS 1"?R↵
R=1⇒Goto 0:Stop↵
↵
```

```
Filename:ONLINE1↵
↵
Cls↵
"N1"?A:"E1"?B↵
Cls↵
"0.COORD"↵
"1.BRG"?H↵
If H ≒ 0:Then "BRG"?E:E→W:Prog "P9":Goto 2:W→F:IfEnd↵
"N2"?C:"E2"?D↵
Pol(C-A,D-B)↵
If J<0:Then J+360→F:Else J→F:IfEnd↵
"CH END":I◢
"BRG ALG":F>DMS◢
Lbl 2↵
"CH"?G↵
cos(F)×G+A→K↵
sin(F)×G+B→L↵
"CL N":K◢
"CL E":L◢
"OFL"?M↵
M=0⇒Goto 3↵
F-90→P↵
cos(P)×M+K→Q↵
sin(P)×M+L→R↵
"OL N":Q◢
"OL E":R◢
"OFR"?N↵
N=0⇒Goto 2↵
F+90→P↵
cos(P)×N+K→Q↵
sin(P)×N+L→R↵
"OR N":Q◢
"OR E":R◢
Goto 2↵
↵
Filename:P6↵
↵
If W<180:Then W+180→W:Else W-180→W:If End↵
↵
Filename:P7↵
↵
Pol(Z[25]-Z[21],Z[26]-Z[22])↵
Prog "If BRG"↵
↵
Filename:P9↵
↵
Int(W)+Int(Frac(W)×100)÷60+(Frac(Frac(W)×100)×100)÷3600→W↵
↵
Filename:PT↵
```

```
↵
Cls↵
"1.RADIAL"↵
"2.BRG DIST"?→Z↵
Z=1⇒Prog "RADIAL":Z=2⇒Prog "BRG-DIST"↵
↵
Filename:RADIAL↵
↵
Cls↵
"NORTH STN"?→N↵
"EAST STN"?→E↵
Cls↵
Lbl 0↵
"BRG"?→B↵
B→W↵
Prog "P9"↵
W→B↵
"DIST"?→D↵
Rec(D,B)↵
I+N→Y↵
J+E→X↵
Cls↵
"NORTH PT":Y◢
"EAST PT":X◢
Cls↵
"NEXT PRSS 1"?T↵
Cls↵
If T=1:Then Goto 0↵
Else Stop↵
↵
Filename:RESECT↵
↵
"LEFT PT"↵
"N"?A:"E"?B↵
"RIGHT PT"↵
"N"?C:"E"?D↵
Pol(C-A,D-B)↵
I→G↵
J→H↵
"DIST TO 1"?E↵
"DIST TO 2"?F↵
(E+F-G)<0⇒"ERROR"↵
(G+F-E)<0⇒"ERROR"↵
(G+E-F)<0⇒"ERROR"↵
cos⁻¹ ((G²+E²-F²)÷(2×G×E))→K↵
H+K→L↵
cos(L)×E+A→M↵
sin(L)×E+B→N↵
cos⁻¹ ((E²+F²-G²)÷(2×E×F))→P↵
```

```
"CHECK ANGLE":P>DMS◢
"PT N":M◢
"PT E":N◢
Pol(A-M,B-N)↵
J<0⇒J+360↵
"BRG TO 1":J>DMS◢
↵
Filename:SCS↵
↵
Cls↵
30→DimZ↵
0→Z[1]↵
ClrMemory↵
"TS N"?→N↵
"TS E"?→E↵
Cls↵
"CH TS"?→Q↵
"IP ANG"?→B↵
Cls↵
"1.LEFT"↵
"2.RIGHT"?→K↵
Cls↵
"IP N"?→G↵
"IP E"?→H↵
Cls↵
"R"?→R↵
"LS"?→L↵
Cls↵
"CTL N"?→Z[21]↵
"CTL E"?→Z[22]↵
Lbl 0↵
Cls↵
"CH TO SET"?→P↵
P-Q→D↵
P=-99⇒Stop↵
If D>L:Then D→Z[1]:L→D:IfEnd↵
Prog "SP-OS"↵
tan⁻¹ (X÷Y)→Z↵
Z[1]>L⇒((B-(Z×6))÷360)×(2×π×R)→C↵
Pol(G-N,H-E)↵
If J<0:Then J+360→V:Else J→V:IfEnd↵
I→O↵
Z[1]?L+C⇒Goto 6↵
If K=1:Then Rec(√(X²+Y²),V-Z):Else↵
Rec(√(X²+Y²),V+Z):IfEnd↵
Z[1]>L⇒Goto 5↵
Cls↵
I+N→Z[25]↵
J+E→Z[26]↵
```

```
"N SP1":I+N◢
"E SP1":J+E◢
Prog "P7"↵
Cls↵
"BRG TO PT":W>DMS◢
"DIST TO PT":I◢
Goto 0↵
Lbl 5↵
I+N→Z[2]↵
J+E→Z[3]↵
V→Z[4]↵
If K=1:Then Z[4]-(Z×3)→Z[5]:Else Z[4]+(Z×3)→Z[5]:IfEnd↵
Z[1]-L→Z[6]↵
(Z[6]÷(2πR))×360→Z[7]↵
(180-Z[7])÷2→Z[8]↵
((R)÷sin(Z[8]))×sin(Z[7])→Z[10]↵
Z[6]×180)÷(2πR)→Z[9]↵
If K=1:Then Rec(Z[10],Z[5]-Z[9]):Else Rec(Z[10],Z[5]+Z[9]):IfEnd↵
Cls↵
Z[2]+I→Z[25]↵
Z[2]+J→Z[26]↵
"N CIR":Z[25]◢
"E CIR":Z[26]◢
Prog "P7"↵
Cls↵
"BRG TO PT":W>DMS◢
"DIST TO PT":I◢
Cls↵
0→Z[1]↵
Goto 0↵
Lbl 6↵
L-(Z[1]-(C+L))→D↵
If K=1:Then V-B→F:Else V+B→F:IfEnd↵
Prog "SP-OS"↵
tan⁻¹ (X÷Y)→Z↵
Rec(O,F)↵
G+I→Z[12]↵
H+J→Z[13]↵
If F<180:Then F+180→F:Else F-180→F:IfEnd↵
If K=1:Then Rec(√(X²+Y²),F+Z):Else Rec(√(X²+Y²),F-Z):IfEnd↵
Cls↵
Z[12]+I→Z[25]↵
Z[13]+J→Z[26]↵
"N SP2":Z[25]◢
"N SP2":Z[26]◢
Prog "P7"↵
Cls↵
"BRG TO PT":W>DMS◢
"DIST TO PT":I◢
```

```
Cls↵
0→Z[1]↵
Goto 0↵
↵
Filename:SOLAR
↵
Cls↵
30→DimZ↵
ClrMemory↵
Deg↵
Fix 4↵
"ORIGIN"↵
"1.SEL"↵
"2.OTR"?→S↵
Cls↵
If S=1:Then 55960.95→O:-21759.48→Q:Else 0→O:0→Q↵
IfEnd↵
"CRD STN N"?→C↵
"CRD STN E"?→D↵
Cls↵
"LATITUDE NEG"↵
"PRES EXE"◢
"1.JHR  4.PHG"↵
"2.N9-ML 5.PRK"↵
"3.KLTN 6.SGOR"↵
"PRES EXE"◢
Cls↵
"7.PNG 8.KD-PR"↵
"9.TGNU"↵
"PRES CHOICE"?→A↵
Cls↵
A=1⇒2.0233→W↵
A=2⇒2.4244→W↵
A=3⇒5.5338→W↵
A=4⇒3.4240→W↵
A=5⇒3.3909→W↵
A=6⇒3.4049→W↵
A=7⇒5.2517→W↵
A=8⇒5.5755→W↵
A=9⇒4.5646→W↵
Prog "P9"↵
(((C-O)×0.03256)÷3600)+W→E↵
((D-Q)0.03246)÷3600→Lsin(E)×L→L↵
L×-1→L↵
0→K↵
Lbl 0↵
Isz K↵
Norm 1↵
"OBS":K◢
```

```
Cls↵
Fix 4↵
"TIME"?→T↵
T→W↵
Prog "P9"↵
W→T↵
"BRG"?→Z[1]↵
Z[1]→W↵
Prog "P9"↵
W→Z[1]↵
Cls↵
"VERT"?→V↵
V→W↵
Prog "P9"↵
W→V↵
If V<90:Then 90-V→V:Else V-270→V:IfEnd↵
If K=1:Then0→M:0→N:0→F:Else G→M:H→N:I→F:IfEnd↵
T→Z↵
Z[1]→R↵
V→U↵
Z+M→G↵
R+N→H↵
U+F→I↵
K=4⇒Goto 1:Goto 0↵
Fix 4↵
Lbl 1↵
(G÷4)-8→G↵
If Z[1]<180:Then (H+360)÷4→H:Else (H-360)÷4→H:IfEnd↵
(I÷4)-(1÷tan(I÷4))×0.016111111→I↵
Cls↵
"RO LFT"?→Z[2]↵
Z[2]→W↵
Prog "P9"↵
W→Z[2]↵
"RO RIGHT"?→V↵
V→W↵
Prog "P9"↵
W→V↵
If V<Z[2]:Then V+180→V:Else V-180→V:IfEnd↵
(Z[2]+V)÷2→U↵
Cls↵
If G<4:Then "DEC 0"?→T:Else "DEC 6"?→T:IfEnd↵
T→W↵
Prog "P9"↵
W→T↵
If G<4:Then "DEC 6"?→V:Else "DEC 12"?→V:IfEnd↵
V→W↵
Prog "P9"↵
W→V↵
```

```
90-(T+(((V-T)÷6)×G))→V↵
(cos(V)-(sin(E)sin(I)))÷cos(E)cos(I))→R↵
cos⁻¹ (R)→R↵
U+R-H+L→M↵
M<0⇒M+360→M↵
"BRG TR":M>DMS◢
↵
Filename:SP
↵
Cls↵
"1.SPIRAL"↵
"SPIRAL-CIR-SPIRAL"?→Z↵
Z=1⇒Prog "SPIRAL":Z=2⇒Prog "SCS"↵
↵
Filename:SPIRAL
↵
Cls↵
30→DimZ↵
Deg:Fix 4↵
"TS N"?→N↵
"TS E"?→E↵
Cls↵
"CH TS"?→Q↵
Cls↵
"1.LEFT"↵
"2.RIGHT"?→K↵
Cls↵
"IP N"?→G↵
"IP E"?→H↵
Cls↵
"R"?→R↵
"LS"?→L↵
Cls↵
"CTL N"?→Z[21]↵
"CTL E"?→Z[22]↵
Lbl 0↵
Cls↵
"CH TO SET"↵
"-99 TO CIRC"?→P↵
P=-99⇒L+Q→P↵
P-Q→D↵
Prog "SP-OS"↵
tan⁻¹ (X÷Y)→Z↵
Pol(G-N,H-E)↵
If J<0:Then J+360→V:Else J→V:IfEnd↵
If K=1:Then Rec(√(X²+Y²),V-Z):Else Rec(√(X²+Y²),V+Z):IfEnd↵
Cls↵
P=L+Q⇒I+N→N↵
P=L+Q⇒J+E→E↵
```

```
P=L+Q⇒Prog "TANBRG"↵
"N PT":I+N◢
"E PT":J+E◢
I+N→Z[25]↵
J+E→Z[26]↵
Prog "P7"↵
Cls↵
"BRG TO PT":W>DMS◢
"DIST TO PT":I◢
Cls↵
Goto 0↵
↵
Filename:SPOS
↵
D−(D^(5))÷(40R²L²)+(D^(9))÷(3456(LR)^(4))→Y↵
(D^(3))÷(6RL)−(D^(7))÷(336(LR)^(3))+(D^(11))÷(42240(RL)^(5))→X↵
↵
Filename:TANBRG
↵
If K=1:Then V−(Z×3)→V:Else V+(Z×3)→V:IfEnd↵
V→U↵
−99→Z[3]↵
Prog "DEFLECT"↵
↵
Filename:TRVDIRCO
↵
30→DimZ↵
Deg:Fix 4↵
Cls:ClrStat↵
"CORD STRT N"?Q↵
"CORD STRT E"?R↵
Q→Z[21]↵
R→Z[22]↵
Cls↵
"1.CHAIN"↵
"2.METER"?→Z[30]↵
0→K↵
Lbl 0↵
Isz K:NORM 1:"LINE:":K◢
Cls↵
"BRG:"?→W:Prog "P9":"DIST:"?→V↵
Z[30]=1⇒V÷20.1168→V↵
Rec(V,W)↵
V→List Y[K]:W→List X[K]↵
If K=1:Then 0→M:0→N:0→O:Else L→M:D→N:Z→O:IfEnd↵
Rec(V,W):I+M→L:J+N→D:√(I²+J²)+O→Z↵
"1.NEXT  2.COMP"↵
"3.CLOSE TRVS"↵
"4.CONECT TRVS"?T↵
```

```
Cls↵
T=1⇒Goto 0:T=2⇒Goto 1:T=3⇒Goto 2:T=4⇒Goto 3↵
Lbl 1↵
Pol(-L,-D)↵
If J<0:Then J+360→J:IfEnd↵
Fix 4↵
"BRG":J>DMS◢
"JRK":I◢
Cls↵
"N":Q+L◢
"E":R+D◢
Cls↵
0→F:0→Z:0→H:0→T:0→N:0→M↵
Lbl 5↵
Isz T↵
N→M:F→H↵
Rec(List Y[T],List X[T])↵
If T=1:Then I+M→N:Else I+M+(List Y[T-1]×cos(List X[T-1]))→N:IfEnd↵
N×J→Z↵
Z+H→F↵
T≠K⇒Goto 5↵
"AREA":Abs((F+(-L×D))÷2)◢
Cls↵
"CONTINUE?(1)"?→T↵
T=1⇒Goto 0:Stop↵
Lbl 2↵
Pol(-L,-D)↵
"REL MISCL":Int((Σy÷I))÷100)×100◢
If J<0:Then J+360→J:Else J→J:IfEnd↵
"BRG":J>DMS◢
Fix 4↵
"JRK":I◢
0→Z:0→M:0→N↵
Lbl 4↵
Isz Z↵
Q→F↵
R→G↵
M→T↵
N→U↵
Rec(List Y[Z],List X[Z])↵
(-L×List Y[Z]÷Σy)+I+Q→Q↵
If (Z÷2)=Int(Z÷2):Then Q→Z[21]:Else Q→Z[25]:IfEnd↵
(-D×List Y[Z]÷Σy)+J+R→R↵
If (Z÷2)=Int(Z÷2):Then R→Z[22]:Else R→Z[26]:IfEnd↵
Cls↵
Norm 1↵
"CR N":Z◢
Fix 4↵
Q◢
```

```
Cls↵
Norm 1↵
"CR E":Z◢
Fix 4↵
R◢
Prog "P7"↵
Cls↵
Norm 1↵
"BRG:Z◢
(Z÷20=Int(Z÷2)⇒Prog "P6"↵
Fix 4↵
W>DMS◢
Cls↵
Norm 1↵
"JRK":Z◢
Fix 4↵
I◢
T+(G×Q)→M:U+(FXR)→N↵
If Z=K:Then "LUAS":Abs((M-N)÷2)◢
Else Goto 4:IfEnd↵
Stop↵
Lbl 3↵
"CLOSE N"?F↵
"CLOSE E"?G↵
F-Q→M↵
G-R→N↵
"REL MISC":Σy÷√((L-M)²+(D-N)²)◢
"D-NORTH":L-M◢
"D-EAST":D-N◢
Cls↵
0→T↵
Lbl 6↵
Isz T↵
Rec(List Y[T],List X[T])↵
((M-L)×List Y[T]÷Σy)+I+Q→Q↵
If (T÷2)=Int(T÷2):Then Q→Z[21]:Else Q→Z[25]:IfEnd↵
((N-D)×List Y[T]÷Σy)+J+R→R↵
If (T÷2)=Int(T÷2):Then R→Z[22]:Else R→Z[26]:IfEnd↵
Norm 1↵
Cls↵
"CR N":T◢
Fix 4↵
Q◢
Cls↵
Norm 1↵
"CR E":T◢
Fix 4↵
R◢
Prog "P7"↵
```

```
Cls↵
Norm 1↵
"BRG":T◢
Fix 4↵
(T÷2)=Int(T÷2)⇒Prog "P6"↵
W>DMS◢
Cls↵
Norm 1↵
"JRK:"T◢
Fix 4↵
I◢
T≒K⇒Goto 6:Stop↵
```