

OLD.
Corrected LexLines Program.

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10 Deg.
20 Dim X[100], Y[100], T[100], N[1], A[35]
30 Z=3
40 For K=0 to 2
50 D1=2↑(-K)
60 U=0
70 Gosub 200
80 U=1
90 Gosub 200
100 Next K
110 End.
120 For K=3 to 4 For K=3 to 4
130 D1=2↑(-K) D1=2↑(-K)
140 U=0
150 Gosub 200
160 U=1
170 Gosub 200
180 Next K
190 End.
200 N[1]=89
210 Load data (3*U+26), X
220 Load data (3*U+27), Y
230 Load data 28, T
240 N=N[1]
250 Rem Calculation of alignments starts here
260 write (15, 280) D1
270 O=sin(D1)/cos(D1)
280 Format 5X, "Possible alignments for error of", F8.5
290 J=0
300 For A=1 to N
310 IF F[A]=Z then G 30
320 Print A
330 For B=A+1 to N.
340 IF A=B or T[B]=Z THEN G 20
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350 For C=B+1 to N.
360 If C=A or C=B or T[C]=Z then G10
370 If X[A]#X[B] then 400
380 M1=9.9E+40
390 GOTO 410
400 M1=(Y[A]-Y[B])/(X[A]-X[B])
410 If X[B]#X[C] then 440
420 M2=9.9E+40
430 GOTO 490
440 M2=(Y[B]-Y[C])/(X[B]-X[C])
450 If X[A]#X[C] then 480
460 M3=9.9E+40
470 GOTO 490
480 M3=(Y[C]-Y[A])/(X[C]-X[A])
490 If (1+m1*m2)=0 or (1+m2*m3)=0 or (1+m3*m1)=0 then G10
500 Q1=(m1-m2)/(1+m1*m2)
510 Q2=(m2-m3)/(1+m2*m3)
520 Q3=(m3-m1)/(1+m3*m1)
530 If Q1*SGN(Q1)>0 or Q2*SGN(Q2)>0 or Q3*SGN(Q3)>0 then G10
540 Write (15, 570)
550 write (15, 590) A, X[A], Y[A], T[A], Q1
560 write (15, 590) B, X[B], Y[B], T[B], Q2
570 Format 2X, "NO", 6X, "X", 4X, "Y", 5X, "Type", 4X, "Angle(Deg)"
580 write (15, 590) C, X[C], Y[C], T[C], Q3
590 Format F4.0, 3X, 2F5.0, F6.0, F13.4, F8.6
600 J=J+1
610 Next C
620 Next B
630 Next A
640 A$="-----A TOTAL OF NOONE ALIGNMENTS"
650 If J>0 then G90
660 write (15,*) A$(1,6); A$(18,19); A$(24,33);
670 Print
680 Return
690 If J>1 then 730

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Corrected Leylines Program (cont)

700 write (15*)A\$ [1,6]; A\$ [21,32];

710 Print

720 Return

730 write (15,*A\$ [1,17]; J; A\$ [24,33];

740 Print

750 Return

760 End.