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§LIST

1  SPEED= 255
5  HGR
10  INPUT "CX,CY ";CX,CY
20  INPUT " X, Y ";X,Y
30  FOR I = 1 TO 10000
40 WX = X - CX
50 WY = Y - CY
60  IF WX ) 0 THEN THETA =  ATN (WY / WX)
70  IF WX ( 0 THEN THETA = 3.14159265359 +  ATN (WY / WX)
80  IF WX = 0 THEN THETA = 1.5707963268
90 THETA = THETA / 2
100 R =  SQR (WX * WX + WY * WY)
110  IF  RND (R) ( 0.5 THEN 130
120 R =  -  SQR (R): GOTO 140
130 R =  SQR (R)
140 X = R *  COS (THETA):Y = R *  SIN (THETA)
150 M =  - 5 + (X + 4) * 300 / 8
160 N = (2 - Y) * 150 / 4
169  HCOLOR= 3
170  HPLOT M,N
171  VTAB 23: PRINT "          ";I
180  NEXT I
190  END
1000  REM  FRACTAL1:CX=XY=-1,X=Y=0
1001  REM  FRACTAL2 CX=CY=0.1,X=Y=1
1002  REM  FRACTAL3: CX=CY=.7,X=Y=1
1003  REM   FRACTAL4:CX=CY=.01,X=Y            =1
1004  REM  FRACTAL5:CX=CY=-0.3,X=Y=1
10005  REM  FRACTAL7:CX=.2,CY=0.3,X=Y=1
10006  REM  FRACTAL8:CX=0,CY=-1,X=Y=1
10007  REM  FRACTAL 9:CX=-1,CY=0,X=Y=1
10008  REM  FRACTAL10:CX=.25,CY=0,X=Y=1
10010  REM  FRACTAL11:CX=.27334,CY=.00342,X=Y=1
10011  REM  FRACTAL12:CX=-.48176,CY=-.53165,X=Y=1
10012  REM FRACTAL13:CX=-.9,CY=.12,X=Y=1
10013  REM FRACTAL14:CX=-.3,CY=0,X=Y=1
10014  REM FRACTAL15:CX=-.48176,CY=-.53165,X=Y=1,I=100000
10015  REM FRACTAL16:CX=.74543,CY=.11301,X=Y=1,I=1E4
10017  REM  FRACTAL17,CX=-.887,CY=0,X=Y=1,I=10000
10018  REM  FRACTAL18,CX=-2,CY=-3,X=Y=1,I=1E4
10020  REM  FRACTAL20,CX=-.5,CY=.24,X=Y=1,I=1E4
10021  REM  FRACTAL21,CX=.1,CY=-.3,X=.1,Y=-.3,I=1E4
10022  REM FRACTAL22,CX=-1,CY=1,X=-1,Y=1,I=1E4
10023  REM FRACTAL23,CX=.00001,CY=.00001,X=Y=1,I=1E4

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Fractal - 00.