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ps04ps01.pl
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2011-10-19

HENG LOW WEE U096901R Problem Set 4 Problem 1 NOTE: To run the problem, the equation needs to be included in this file first Go to ----> Equation will be executed on 'consult' I have set the size to be reduced according to the level so the image wouldn't be too big to be viewed in the window Level, K, is assumed to be >= 1Test Case : fractal(g = (g; left(45); g; right(90); g; left(45); g), 3, 30). */ /*fractal(_=_, 0, L) :write('forward('), write(L), writeln(')'), !.*/ fractal(X=(Expr),K,L) :fractal(X, Expr, Expr, K, L), !. fractal(_, _, _, 0, L) :write('forward('), write(L), writeln(')'), !. fractal(X, X, Expr, K, L) :-K1 is K-1, L1 is $L*0.85^{(K1)}$, % this line is reduce size of image % use reduced size fractal(X, Expr, Expr, K1, L1), %fractal(X, Expr, Expr, K1, L), % use actual size !. fractal(_, left(Angle), _, _, _) :write('left('), write(Angle), writeln(')'), !. fractal(_, right(Angle), _, _, _) :write('right('), write(Angle), writeln(')'),

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!. fractal(X, Left;Right, Expr, K, L) :fractal(X, Left, Expr, K, L), fractal(X, Right, Expr, K, L), !. :- tell('output.py'), writeln('from turtle import *'), writeln('import time'), writeln('Screen().setworldcoordinates(-200,-500, 1500, 1000)'), writeln('delay(0)'), % ----> ENTER EQUATION HERE fractal(g = (g; left(45); g; right(90); g; left(45); g), 3, 30),% After moving so much, the turtle is tired and has fallen asleep writeln('time.sleep(15)'), told, !.