Problem Description

Try to picture an HV-tree structure based on the following principles:

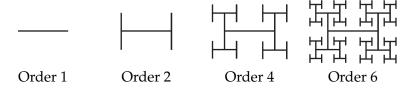
Assume a basic shape of a line of length L (order 1)

Draw at each extremity a line of length (Factor \times L) at right angles to the original previous line (order 2)

Draw at each extremity a line of length (Factor $^2 \times$ L) at right angles to the original previous line (order 3)

And so forth ...

The shape takes form as follows:



Task

Write a program that will output an HV-tree of a given order and factor.

Relates to Objectives

 $1.1 \ 1.2 \ 1.3 \ 2.1 \ 2.2 \ 2.3 \ 2.4 \ 2.5 \ 2.7 \ 3.3 \ 3.5 \ 4.1 \ 4.5 \ 4.7$

(1 point, Individual)