

## Assignment 3 - Algorithmic Art - Christopher Heiden

### Necessary Materials:

- One blank sheet of white paper
- One ruler
- One pencil

### Algorithm:

1. Place the paper in front of you in landscape fashion.
2. Mark the middle of the left edge and the right edge of the paper with your pencil and connect those two points.
3. Write down your surname on the upper left corner. Count the letters you have in your name and write this number next to it. This number is the amount of points you have to draw randomly on the line which you draw in the second step.
4. Start drawing a wave. Therefore, the pencil has to be on the paper the entire time. Don't stop drawing. The starting point for drawing the wave is the first mark you made for drawing the line (left edge of the side). From there, until you've arrived at the right edge of the paper draw a wave to the next mark in the row, find the next point on the line again and draw the next wave.  
The waves can be alternate from point to point. Do this until you've arrived at the right edge mark on the line. Then you can stop drawing on this paper.
5. Now do step four fifteen times but with different amplitudes (maximal height of the wave) of the waves. An amplitude is the maximum extent of a wave, measured from the position of line in this case.
6. When you have done that draw other waves. This time you can take any mark you want for drawing the wave. Still the mark you take has to be on the right side of your actual mark. The starting and the end of the wave are the marks you made for the line.
7. Also there draw those waves again with different amplitudes fifteen times.