Cantor Set

- Set of lines where there is one main line, and below that there are two other lines: each ⅓ of the width of the original line, with one on the left and one on the right (with a ⅓ separation of whitespace between them)
- Below each of the other lines is an identical situation: two ⅓ lines.
- This repeats until the lines are no longer visible.

Order-0 Cantor Set

Order-1 Cantor Set

Order-2 Cantor Set

Order-3 Cantor Set

Order-6 Cantor Set

Order-6 Cantor Set

Another Cantor Set!

Another Cantor Set!

Approaching recursive problems

- Look for self-similarity.
- Try out an example.
  - Work through a simple example and then increase the complexity.
  - Think about what information needs to be "stored" at each step in the recursive case
- Ask yourself:
  - What is the base case? (What is the simplest case?)
  - What is the recursive case? (What pattern of self-similarity do you see?)