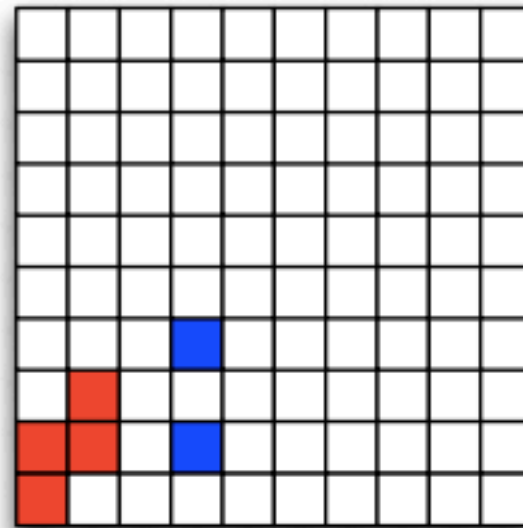2. The diagrams shown below are the result of executing an algorithm with one parameter N, a non-negative integer, that colors boxes on a 10 by 10 grid. For values of N from 0 to 5, the algorithm produces the following patterns:
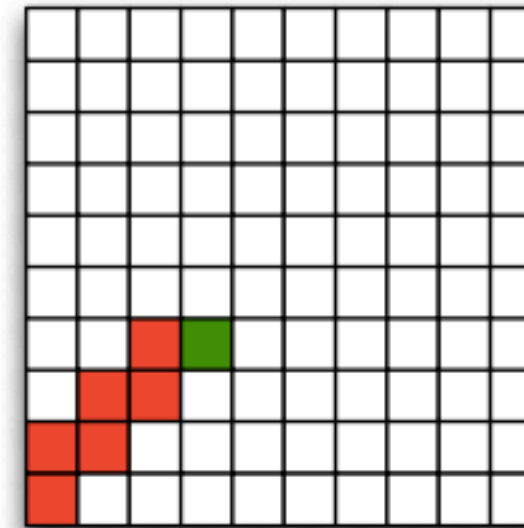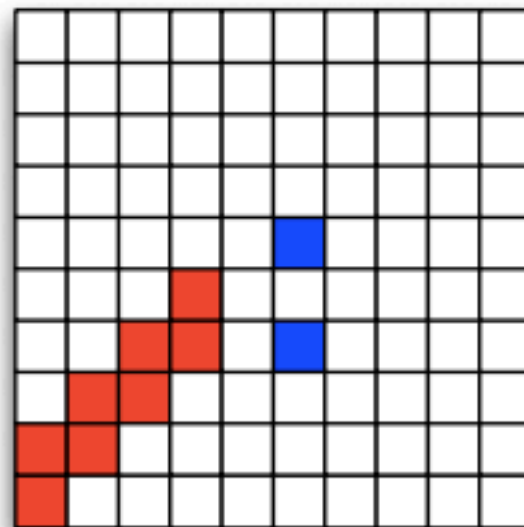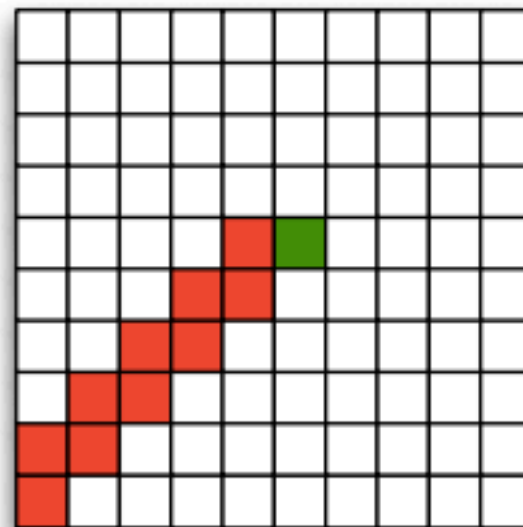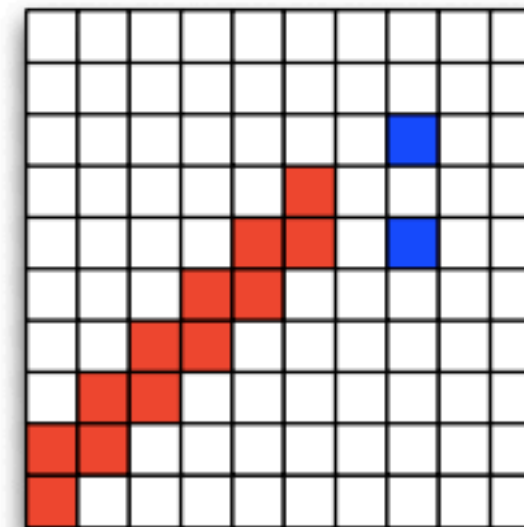
1 point
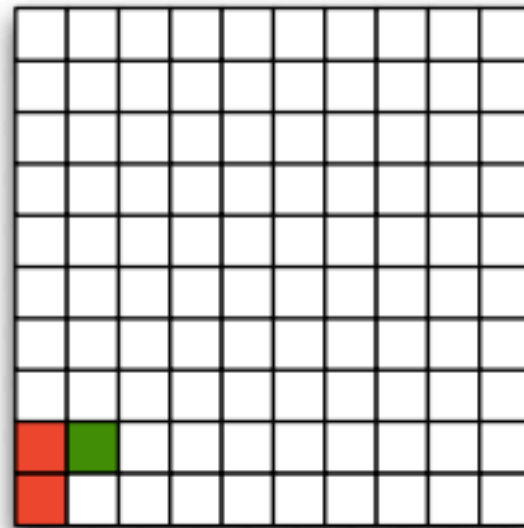
N=0

N=1

N=2

N=3

N=4

N=5

Determine the algorithm that was used to draw these patterns and