Analyzing data from dla generating program:

SET UP:

number of particles: 10/ radius: 10/ grid size: 200*200 When the particle goes out of bound, the particle is reinitialized.

When inputting seed from 1 to 10000,

the average number of steps taken: 6065 steps the standard deviation of steps taken: 1995 steps

-To prove randomness of the program

WITH DIFFERENT SETUP:

Same as the above except radius = 5

When inputting seed from 1 to 10000,

the average number of steps taken: 44096 steps the standard deviation of steps taken: 13838 steps

the average time taken to complete the cluster: 0.008168961 seconds the standard deviation of time taken to complete the cluster: 0.003554692

















