Assignment 3: Group Size Detection

Values of P and R that produces the best estimate

- For Estimated Value of M: 100, (R,P) pairs:
 - 0, 0.21
 - 0, 0.22
 - 0, 0.23
 - 0, 0.24
 - 0, 0.25
 - 1, 0.21
 - 1, 0.22
 - 1, 0.23
 - 1, 0.24
 - 1, 0.25
 - 2, 0.15
 - 2, 0.16
 - _,
 - 3, 0.12
 - 4, 0.1
 - 5, 0.08
 - 6, 0.07
 - 7, 0.06
 - 9, 0.05

Does it matter if we use 4-distance or 8-distance?

- 4 distance: 33 versions reached the size estimation of 100
- 8 distance: 16 versions reached the size estimation of 100

As the neighbors nearby are increased for flashing check, the accuracy of the current rudimentary algorithm reduces.

Possible Improvement in the Algorithm

• Improve the response of grid by iterating through all neighbors to make immediate change rather than waiting for the next iteration to happen.