Program 2 Reactive Agents

You have been given starter code for the segregation model. Notice that the output plots are stored in a png file (which you have to click on to see).

1. Explore the Schelling model. Add output to indicate the percentage of each agent type that meets the desired similarity\_threshold.
2. Add a feature where the similarity\_threshold can be different for each of the colors.
3. Add a feature to stop when little progress is being made. Print out a message to indicate how many iterations you did.
4. Add a feature where agents can improve on their current location by performing a location swap with another agent who is willing to swap (in addition to just swapping with an open position).
5. Add a feature where you prefer to move to locations in the neighborhood. The idea is that a move may be cheaper if the agent didn’t move as far. Define neighborhood however you like.
6. Explore something else you consider interesting.

Upload your code along with a short video demonstrating what you have done.