```
180         Console.WriteLine ("The test model has a population of: " + test_model.total_pop);
181         Console.WriteLine ("Testing infection method.");
182 
183         susceptible_data.Add (0, test_model.get_susceptible_count ());
184         infected_data.Add (0, test_model.get_infected_count ());
185         recovered_data.Add (0, test_model.get_recovered_count ());
186 
187         test_model.infect_and_recover ();
188 
189 
190         int t = 1;
191         while (test_model.get_recovered_count() != 100000) {
192 
193             test_model.infect_and_recover ();
194 
195             susceptible_data.Add (t, test_model.get_susceptible_count ());
196             infected_data.Add (t, test_model.get_infected_count ());
197             recovered_data.Add (t, test_model.get_recovered_count ());
198 
199             t = t + 1;
200 
201         }
202 
203 
204         using (var writer_s = new StreamWriter ("/Users/mateovargas/Documents/Dissertation/data/susceptible.csv")) {
205 
206             for (int x = 0; x < susceptible_data.Count; x++) {
207                 string item_one_s = x.ToString();
208                 string item_two_s = susceptible_data[x].ToString();
209                 string line = string.Format ("{0}, {1}", item_one_s, item_two_s);
210                 writer_s.WriteLine (line);
211                 writer_s.Flush ();
212             }
213         }
214 
215 
216         using (var writer_i = new StreamWriter ("/Users/mateovargas/Documents/Dissertation/data/infected.csv")) {
217 
218             for (int x = 0; x < infected_data.Count; x++) {
219                 string item_one_i = x.ToString();
220                 string item_two_i = infected_data[x].ToString();
221                 string line = string.Format ("{0}, {1}", item_one_i, item_two_i);
222                 writer_i.WriteLine (line);
223                 writer_i.Flush ();
224             }
225         }
```