```csharp
47
48          for (int j = 0; j < infected; j++) {
49
50              population.Add ((i) + j, "infected");
51
52          }
53      }
54
55      //Method to get the population dictionary.
56      public Dictionary<int, string> get_population(){
57
58          return population;
59
60      }
61
62      //Method to get the number of susceptible individuals.
63      public int get_susceptible_count(){
64
65          return susceptible_count;
66
67      }
68
69      //Method to get the number of infected invividuals.
70      public int get_infected_count(){
71
72          return infected_count;
73
74      }
75
76      //Method to get the number of recovered individuals.
77      public int get_recovered_count(){
78
79          return recovered_count;
80
81      }
82
83      //Method to get the contact rate.
84      public double get_contacts(){
85
86          return contacts;
87
88      }
89
90      //Method to get the recovery rate.
91      public double get_recovery_rate(){
92
```