In[995]:= ```
Tmax = 5000;
immi = 0.15;
emmi = 0.2;
n0 = 40;
k = 200;
```

In[1000]:= ```
Timing[tab = Table[n = n0;
    Table[n = n + If[Random[] < immi, 1, 0] - If[Random[] < emmi, 1, 0];
      n = If[n < 0, 0, n], {t, 1, Tmax}], {i, 1, k}];
  tabmean = Thread[Mean[tab]];]
```
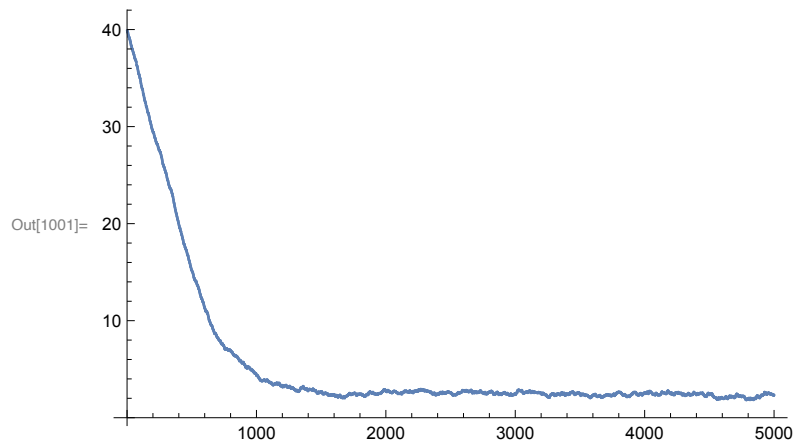
Out[1000]= {2.529, Null}

Here is what the means of populations looks like

In[1001]:= `ListPlot[tabmean, PlotRange → All]`

Out[1001]=

And here is a single run

In[1004]:= `ListPlot[tab[[1]], Joined -> True]`

Out[1004]=