A1 = prob of infection 1

A2 = prob of infection 2

b1 = prob of removed 2

b2 = prob of removed 2

t\_intr = timestep at which strain 2 is introduced

N = population

dt = times

(lists of variables)

S = N – 1

I1 = 1

I2 = 0

R = 0

t = 0

Dummy\_a2 = (1-a1) / a2;

While t < t\_end:

dS = (-a1 - a2) \* S \* I / N;

dI1 = -a1 \* S \* I / N

If t > t-intr:

Use Dummy\_a2 as a2 etc.

etc.

etc. add the dS to S, etc.

[save the state into lists]