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for $t \geq 1$). Use this equation to obtain the time evolution $\langle N_1(t) \rangle$ of the average value of N_1 .

Compare this analytical form with the results of your simulations.

*** Note that $\langle N_1(t) \rangle = X_{N_1, N_1} P(N_1; t)$: Using the stochastic equation, it is easy

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to see that $\langle N \rangle = \frac{1}{t} \sum_{i=1}^t N_i$
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 $+ 1$; which leads to
the solution $\langle N \rangle = \frac{1}{t} \sum_{i=1}^t N_i$
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