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equation (in other words, a solution for $t \neq 1$). Use this equation to obtain the time evolution $\langle N_1 \rangle_t$ of the average value of N_1 . Compare this analytical form with the results of your simulations. *** Note that $\langle N_1 \rangle_t = \sum_{N_1} N_1 P(N_1; t)$: Using the stochastic equation, it is easy to see that $\langle N_1 \rangle_{t+\Delta t} = \frac{1}{2} \sum_{N_1} N_1 \langle N_1 \rangle_{t+1}$; which leads to the solution $\langle N_1 \rangle_t = \frac{1}{2} \sum_{N_1} N_1 e^{-N_1 t}$;

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