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equation (in other words, a solution for $t > 1$). Use this equation to obtain the time evolution $\langle n_i(t) \rangle$ of the average value of N_i . Compare this analytical form with the results of your simulations. *** Note that $\langle n_i(t) \rangle = \sum_{N_i} N_i P(N_i; t)$: Using the stochastic equation, it is easy to see that $\langle n_i(t+\tau) \rangle = \frac{1}{2} \langle n_i(t) \rangle + \frac{1}{2} \langle n_i(t+1) \rangle$; which leads to the solution $\langle n_i(t) \rangle = \frac{1}{2} \langle n_i(0) \rangle + \frac{1}{2} \langle n_i(1) \rangle$;

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