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equation (in other words, a solution for  $t \neq 1$ ). 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  $\langle n_i(t) \rangle = \sum_{N_1} P(N_1; t)$ : Using the stochastic equation, it is easy to see that  $\langle n_i(t+\Delta t) \rangle = \frac{1}{2} \langle n_i(t) \rangle + 1$ ; which leads to the solution  $\langle n_i(t) \rangle = \frac{1}{2} \langle n_i(0) \rangle + \frac{1}{2}$ ;

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