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equation (in other words, a solution 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  $\langle N_1(t) \rangle = \sum_{N_1} P(N_1, t)$ : Using the stochastic equation, it is easy to see

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that  $h_{N-1}(t) = \frac{1}{2} N h_{N-1}(t+1)$ ; which leads to the solution  $h_{N-1}(t) = C \frac{1}{2} N t + N^2$ ;

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