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

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