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Statistical Mechanics equation (in other words, a solution for  $t$  ! 1). Use this equation to obtain the time evolution  $hN_{1i}$

t of the av-  
erage value of  
 $N_{1i}$ . Compare  
this analytical  
form with the  
results of your  
simulations. \*\*\*  
Note that  $hN_{1i}$   
 $t = X N_{1i} N_{1P}$   
( $N_{1i};t$ ): Using  
the stochastic  
equation, it is  
easy to see  
that  $hN_{1i} t+ t$   
 $= 1 2 N hN_{1i} t$

+ 1; which leads  
to the solution  
 $hN_{1i} t = C 1 2$   
 $N t + N 2$ ;  
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