## Questions for Chapter 6

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- 1. Characterize in general terms how the non-equilibrium behavior of a gas is described 1) on the macroscopic and 2) on the microscopic level! How these two are linked within 3) the dynamical ensemble approach?
- 2. An ensemble contains *a lot* of systems. However, it is the observed macroscopic behavior of an *individual* system which should be accounted for. How is this tension supposed to be resolved?
- 3. How do coarse-graining + Markov assumption account for time asymmetry and approach to equilibrium? (Extra Q: What is the reason for putting aside the issue of the exact evolution of the ensembles generated by the microscopic dynamics, and using some independent assumptions instead?)