Problem 1. *Synchronization via Consensus (6 points)*: The controls community has studied the use of distributed consensus (agreement) protocols for coarse-grained time synchronization. In the basic consensus protocol, nodes exchange clock values and each node updates its clock as the average of its previous value and all received values. In such a protocol, what happens when one node refuses to update its clock value?

Problem 2. *Localization Misbehavior (9 points)*: Many localization protocols for wireless sensor networks were not designed to incorporate malicious behavior. Choose any two of these WSN localization protocols from the literature (preferably popular ones) and identify potential misbehaviors. What are the impacts of the behaviors you identified?