

## Homework 4

*Assigned: March 21**Due: March 27 (in class)*

**Note: Late homeworks will NOT be accepted, however your lowest homework grade will be dropped.**

1. (leaky bucket) Chapter 7, problem 50
2. (BGP) Chapter 8, problem 55
3. (multicast) Chapter 8, problem 57
4. (anycast) Read the paper “A Framework for Scalable Global IP-Anycast (GIA)” by Dina Katabi and John Wroclawski, Sigcomm 2000. There is a pointer on the web page. List the key ideas behind this proposal. How much of the current Internet needs to change to implement this? Do you think GIA is a good idea or not? Provide reasons for your answer. (Hint: there is no right answer!)
5. Suppose that instead of realizing mobility using mobile IP, the 5-tuple associated with the socket is modified to reflect the change in IP address. Work out the basic details of such a scheme, and point out any strengths and weaknesses of the scheme. Hint – security is a big issue in mobility.