Problem Set 9

This problem set is due on *Tuesday, December 2, 1997* at the end of class. Late homeworks will *not* be accepted.

Mark the top of each sheet with your name, 6.857, the problem set number, and the date. Type up your solutions, and be clear. Points may be deducted if your TA has problems understanding your solution.

If you collaborate with other students, you MUST write up solutions on your own and acknowledge the people you work with.

Problem 9-1. Stuffing the ballot box

The voting protocol by Fujioka, Okamoto, and Ohta suffers from the following defect: the "administrator" can create and cast votes for voters who are on the voting list but who haven't voted. (The administrator could cast these votes at the last possible minute, after seeing who has voted so far.)

Explain more carefully how such cheating by the administrator is done.

Devise and discuss at least one way of addressing this concern. What would you do in practice?

Special *EVIL* Rule: No collaborating or discussing with Ben Adida.