Problem Set 7 — Due Wednesday, May 19, 1999

Problem 1. Describe a TM (draw the transition diagram) which starts in configuration $q_0x\#y$, where x and y are binary strings, and ends with the sum of x and y written on the tape. (You may choose formatting details.)

Problem 2. Define 2-stack PDAs, and describe how such a machine would compute. Then argue that the 2-stack PDAs accept exactly the Turing-acceptable languages.