Problem Set 1

Instructor: Jing Chen

Due by Wednesday, September 25, 2:30pm.

Each problem counts for 10% of this problem set, distributed evenly among the subproblems.

**Problem 1.** Exercise 1.6 (a, c, h, j, l), Introduction to the Theory of Computation, 3rd Edition (same for 2nd Edition).

**Problem 2.** Exercise 1.14 (same for 2nd Edition).

**Problem 3.** Exercise 2.2 (same for 2nd Edition).

**Problem 4.** Exercise 2.4 (b, c, e, f) and Exercise 2.6 (b) (same for 2nd Edition).

**Problem 5.** Problem 3.11 (same for 2nd Edition).

**Problem 6.** Exercise 3.1 (d), 3.8 (b), Problem 3.15 (b), 3.16 (b, d) (same for 2nd Edition).


**Problem 8.** Problem 4.20 (Problem 4.18 in 2nd Edition).

**Problem 9.** Problem 5.22 (same for 2nd Edition).

**Problem 10.** Problem 5.29 (same for 2nd Edition).