Assignment#2: Due June 8

- 1. Exercises 4.3-6, 4.3-9
- 2. Exercises 4.4-2, 4,4-6
- 3. Problem 4-3: (b),(c), and (f)
- 4. Problem 4-4
- 5. (Challenge Problem Need not be turned in and solution will not be provided): Consider Case 3 of master theorem: (i) $f(n) = \Omega(n^{\log_b a + \epsilon})$ for some $\epsilon > 0$; and (ii) $af(\frac{n}{b}) \leq cf(n)$ for some c < 1 for n sufficiently large. Do we need both of these conditions or is one stronger than the other?