

Assignment #2:
Due June 12

1. Exercise 4.1-5 (page 67)
2. Exercise 4.3-4 (page 75)
3. (4-5) (page 86)
4. Problem 4-1 parts (b), (g) and (h) (page 85)
5. Problem 4-4: (b),(c), and (f)
6. (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?