

**CMS C 641**  
**Homework 5**  
**With Clarifications**

**Reading Assignment:**

- Listen to Brahms' Symphony No. 1
- Read chapter 4 of text, chapter 2 of Algorithms by Dasgupta, Papadimitriou, & Vazirani(DPV), and the Brassard/Bratley(BB) handout.

**Homework:**

1. Exercise 4.3-1, page 87 of text. (Use substitution method.)
2. Exercise 4.4-1, page 92 of text (Use Recursion Tree method.)
3. Exercise 4.4-2, page 92 of text (Use Recursion Tree method)
4. Exercise 4.5-1b, page 96 of text (Use Big Master Theorem)
5. Exercise 4.5-1c, page 96 of text (Use Big Master Theorem)
6. Exercise 4.5-1d, page 96 of text (Use Big Master Theorem)
7. Problem 2.3.7, page 75 of BB handout (Use BB methods)
8. Problem 2.3.9, page 76 of BB handout (Use BB methods)
9. Problem 2.3.10, page 76 of BB handout (Use BB methods)
10. Problem 2.3.12, page 76 of BB handout (Use BB methods)