

Homework 2

(1) = essential, (2) = important insight, (3) = more challenging, (C) = code available

1. 10.3-1 (1)
2. 10.3-2 (1)
3. 10.4-1 (1)
4. 10.4-4 (2)
5. 10-1 (1)
6. 12.2-1 (1)
7. 12.3-4 (2)
8. 12.3-5 (2)
9. 13.1-1 (1)
10. 13.1-5 (2)
11. 13.2-3 (2C)
12. 13.3-2 (1)
13. Show the red-black trees that result after successively inserting the keys 5, 10, 15, 25, 20, 30 into an initially empty red-black tree. (1)
14. 13.4-3 (1C)
15. Show the red-black trees that result from successively deleting the keys 30, 25, 20, 15, 10, 5 from the final tree in problem 13. (1)
16. 13.4-7 (3)
17. 11.2-2 (1)
18. 11.3-1 (2)
19. 11.4-1 (1)
20. 11.4-4 (1)

