

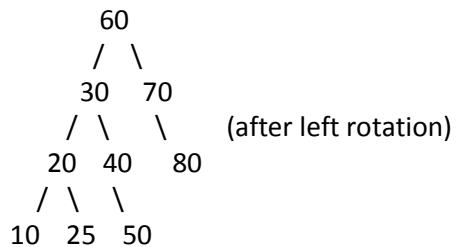
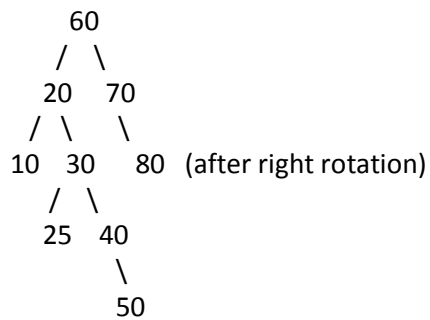
Solutions to Mid-Term Exam #2

Part I: Multiple choices (12 pts with 3 points each)

1	2	3	4
C	B	D	A

Part II: AVL trees (5 points)

No. we need to perform right-left-rotation!



Part III: Short answers (6 points)

(1) Inorder traversal:

10, 100, 50, 70, 40, 60, 20, 80

(2) Postorder traversal:

10, 50, 40, 70, 100, 80, 20, 60

Part IV: Hashing (9 points)

(1)

0	1	2	3	4	5	6	7	8	9	10
RATE	BETA	ALPHA	MEAN	WAGE	SUM	NUM	KAPPA	PAY	BAR	FREQ

(2)

Open addressing including linear probing, quadratic probing and double hashing;
Chaining

Part V: Programming (10 pts)

See solutions discussed in class and your HW.