Programming Assignment 3 - Interval Tree

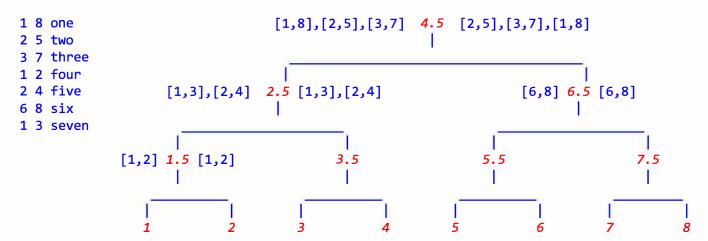
Test Cases

If you got fewer than full points for any of the test cases, you should run your program on all test cases and see what the tree looks like. (And for **findIntersectingIntervals**, check the resulting intervals - order does not matter.)

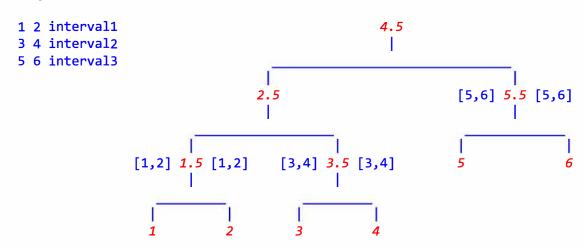
Note that your program might be spitting output that you didn't suppress before turning it in. In which case, the grade report will be cluttered with your own mess, which you will have to wade through to isolate the lines printed by the test program.

Test Trees

tree1



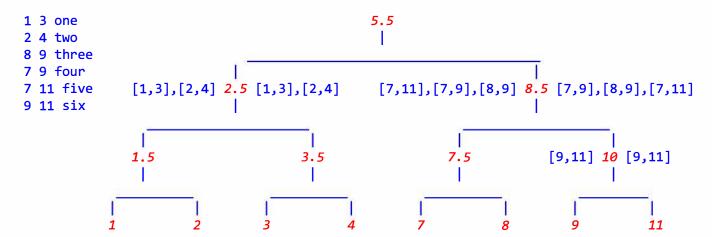
disjointTree



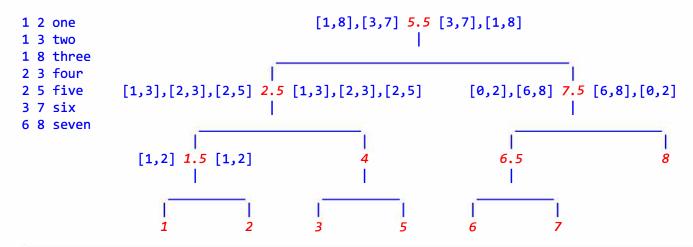
dupTree



tree4



distortedTree



Test Cases

tree1

sortIntervals (10 pts)		getSortedEndPoints (15 pts)		buildTreeNodes (20 pts)	
Test Case	Points	Test Case	Points	Test Case	Points
tree1	5	tree1	4	tree1	5
dupTree	2	disjointTree	4	disjointTree	5
tree4	3	dupTree	3	dupTree	5
		tree4	4	tree4	5

findIntersectingIntervals

mapInterva	lsToTree (15
pts)	
Test Case	Points

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<pre>disjointTree dupTree tree4</pre>	4 3 4			[2 3] / [1,8],[2,5],[3,7],[1,3], [2,4],[1,2] [0 0] / Empty Set
		disjointTree	3	[1 4] / [1,2],[3,4] [7 8] / Empty Set [3 5] / [3,4],[5,6]
		dupTree	3	[1 1] / [1,3],[1,3] [2 4] / [1,3],[1,3] [4 7] / Empty Set
		tree4	3	[2 7] / [1,3],[2,4],[7,11],[7,9] [1 3] / [1,3],[2,4] [4 7] / [2,4],[7,11],[7,9]
		distortedTree	3	[3 5] / [1,8],[3,7],[2,5],[2,3], [1,3] [2 3] / [1,8],[3,7],[1,3],[2,3], [2,5],[1,2] [9 11] / Empty Set