Names:	

COMPSCI 250 Discussion #7: Boolean Expressions

Group Response Sheet
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The individual handout gives a real Java class definition for **boolean expressions**, somewhat similar to the definition of Lisp lists in Section 4.10 (which we aren't doing this semester anyway). Note that there are *not* separate node and tree objects – a tree can be a single leaf node or a composite node with two subtrees.

Writing Exercise: Write (in real Java) the following methods to be added to this class:

1.	A method	od si	ze that	returns	an	int	giving	the	number	of	nodes	in	the	calling	expre	ssion's
	tree.															

2. A method leaves that returns an int giving the number of leaves in the calling expression's tree.

3.	A method depth that returns an int giving the depth of the tree, which is the number of nodes in the longest directed path from the root node to any leaf.
4.	A method eval to return the boolean value of the calling expression.
5.	(if time) A method toString that returns a String representing the expression, in an infix
	format like "NOT ((true OR false) AND (false OR true))".