
Trees

Exercises

1- Implement a method to calculate the size of a binary tree.

Solution: `Tree.size()`

2- Implement a method to count the number of leaves in a binary tree.

Solution: `Tree.countLeaves()`

3- Implement a method to return the maximum value in a binary search tree using recursion.

Solution: `Tree.max()`

4- Implement a method to check for the existence of a value in a binary tree using recursion. Compare this method with the `find()` method. The `find()` method does the same job using iteration.

Solution: `Tree.contains()`

5- Implement a method to check to see if two values are siblings in a binary tree.

Solution: `Tree.areSibling()`

6- Implement a method to return the ancestors of a value in a List<Integer>.

Solution: Tree.getAncestors()