public static <T extends Comparable<T>> boolean isElementInTree(BinaryTree<T> tree, T element) {

BinaryTree<T> leftSubtree = tree.newInstance();

BinaryTree<T> rightSubtree = tree.newInstance();

boolean found = false;

if (tree.height() > 0) {

T root = tree.disassemble(leftSubtree, rightSubtree);

int comparison = element.compareTo(root);

if (comparison > 0) {

found = isElementInTree(rightSubtree, element);

} else if (comparison < 0) {

found = isElementInTree(leftSubtree, element);

} else {

found = true;

}

tree.assemble(root, leftSubtree, rightSubtree);

}

return found;

}

2a.

Matt

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Zeke

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Pete

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Lon

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John

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Mei

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Larry

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Bess

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Merv

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Adam

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Kate

2b.

Matt

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Zeke

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Lon

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2c.

Matt

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Zeke

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Lon

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2d.

Matt

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Zeke

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Mei

2e.

Mei

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Zeke

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Larry

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Bess

Merv

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Adam

Kate