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Assignment 3 Testing

- testInsertAndSearch()
    - Tested inserting a node and checked by using search method to see if it was there
        - Added nodes to the tree
        - Searched for keys of nodes both in the tree and not in the tree
    - All tests passed

- testDeleteAndSearch()
    - Tested delete a node and checked by using search method to see if it was there
        - Inserted and then deleted nodes from the tree
        - Searched for keys of nodes both in the tree and not in the tree
    - All tests passed

- testKthSmallest()
    - Tested ability to find the ‘kth’ smallest node key in the tree
        - Inserted nodes into the tree
        - Went through each possible valid key inputs for given tree to see if it would return the correct key
    - All tests passed

- inOrderRec()
    - Can’t test inOrderRec() method since it is void

    - Examples of invoking method with different amounts of nodes in tree

      > BinarySearchTree test = new BinarySearchTree()

      > test.insert(1)
      > test.insert(2)
      > test.insert(3)

      > test.inOrderRec()
      1 2 3

      > test.insert(4)
      > test.insert(5)
      > test.insert(6)

      > test.inOrderRec()
      1 2 3 4 5 6

      > test.insert(10)
      > test.insert(15)
      > test.insert(20)
      > test.inOrderRec()
      1 2 3 4 5 6 10 15 20