

### Project 3 Write Up

6) The run time and space complexity for the method printTrees will be  $O(n)$ .

7)

```
public BNode<AnyType> findMax(BNode<AnyType> t) {  
    if (t != null) {  
        while (t.right != null) {  
            t = t.right;  
        }  
        return t;  
    }  
}
```

8) The run time and space complexity of the findMax method will also be  $O(n)$ .

9d) My code wouldn't count properly, but going off of lecture notes we know that with larger data AVL Trees are faster, as at worst case they're  $O(\log(n))$ .