Assessed Exercise week 3

Task A:

The static procedure below, will read a text file and display all the words found. Create a BSTree of strings and fill it with the words from a text file. Your console application should also display the number of words in the tree and the height of the tree. There is a text file on moodle you can use to test this.

Task B: Create a console application which provides tests for the **SubTree** method and **Equals** method described in BinarySearchTree Ex4. The test should first construct and display 2 appropriate **AVL trees** and the result of calling each method with those trees. Your tests should cover a non trivial True and False for both methods. When displaying your AVL Trees you should use InOrder and show the height of each as well.

```
public bool Equals(BSTree<T> tree)
  //returns true if this BSTree object contains all the same data as
  //tree with the same structure and ordering of data.

public bool SubTree(BSTree<T> tree)
  //returns true if this BSTree object contains the subtree tree.
  //A subtree of a tree T is a tree consisting of a node in T and all
  // of its descendants in T
```