```
Value
```

```
// default implementation: compares lexicographically the string representation of the Value with // the string representation of the otherValue. If the representations are equal 0 is returned // If the Value representation is less than otherValue representation a negative value is returned // otherwise a positive value is returned default Integer compareTo(Value otherValue)
```

BoolValue, CharValue, FloatValue, IdentifierValue, IntValue, StringValue are implementing Value and each have a baseValue and their representation according to the specification

```
SymbolTableNode has the following attributes
Integer position; // position in the symbol table
Value value; // the value in the symbol table
SymbolTableNode leftChild; // reference to the leftChild
SymbolTableNode rightChild; // reference to the rightChild

public interface SymbolTable {
    /*
    Returns the position of the value if the value exists,
    otherwise it inserts the value and returns the new position
    */
    Integer getPosition(Value value);
}

public class SymbolTableBSTImpl implements SymbolTable and has the following attributes int nextPosition = 0; // represents the position of the next value to be inserted SymbolTableNode root; // represents the root of the tree
```

ComposedSymbolTableImpl implements SymbolTable and has 2 symbol tables SymbolTable identifierSymbolTable; // for identifiers SymbolTable constantSymbolTable; // for constants

