0.0.1 Constructor and the Class as a whole

The constructor for the Function class will be quite simple. We take an expression as an input and:

- 1. Remove Whitespace from the expression
- 2. Standardize the expression (using the RegEx rules)
- 3. Create the Binary Tree
- 4. Create the Post-Fix Stack from the Binary Tree

```
Algorithm 1: Function Class Constructor

1 function Function(String expression):
2 | expression = expression.strip()
3 | expression = standardize(expression)
4 | this.expression = expression this.binaryTree = createTree(this.expression)
5 | this.postFixStack = this.binaryTree.traverse()
6 end
```

The class as a whole will look something like the diagram below.

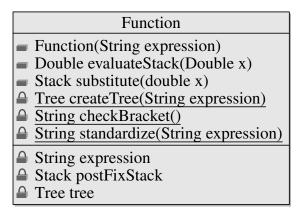


Figure 1: Function Class