CPSC326 | Homework 3: ASTParser + Pretty Print | 2/25/2025 | Arjuna Herbst

I created these tests to put stress on certain areas of the parser that I struggled with. Test 1 involves a while loop containing an if else block. Test 2 used mixed arithmetic operators nested in parentheses to ensure my parser properly prioritized the operators. The other tests involve nested function calls and recursive field accesses, since I had trouble telling the difference between function calls and variables references. I also struggled with keeping the parser in sync when encountering multiple elements that started with an ID, which led to errors like expecting a closing paren.

Test Case Inputs:

```
void main() {
    tree.left.right.data = new Node(
        left.value + right.value,
        null
    )
    if tree.height > maxHeight {
        tree.parent.balance = (left.depth - right.depth)
    }
}
```