```
ghci> main
Enter an arithmetic expression (or type 'exit' to quit):
((7 * 3) ^ 2)
Error: Invalid character: ^
Enter an arithmetic expression (or type 'exit' to quit):
((4 * 2) + ( - ))
Error: Missing Operand
Enter an arithmetic expression (or type 'exit' to quit):
```

```
Enter an arithmetic expression (or type 'exit' to quit):
3 + 4
Result: 7.0
Enter an arithmetic expression (or type 'exit' to quit):
8 - (5 - 2)
Result: 5.0
Enter an arithmetic expression (or type 'exit' to quit):
10 * 2 / 5
Result: 4.0
Enter an arithmetic expression (or type 'exit' to quit):
2 ** 3
Result: 8.0
Enter an arithmetic expression (or type 'exit' to quit):
4 * (3 + 2) % 7 - 1
Result: 5.0
Enter an arithmetic expression (or type 'exit' to quit):
2 * (4 + 3 - 1
Error: Unmatched parentheses
Enter an arithmetic expression (or type 'exit' to quit):
* 5 + 2
Error: Missing Operand
Enter an arithmetic expression (or type 'exit' to quit):
4 / 0
Error: Invalid Operator Usage
Enter an arithmetic expression (or type 'exit' to quit):
5 (2 + 3)
Error: Missing Operator
Enter an arithmetic expression (or type 'exit' to quit):
7 & 3
Error: Invalid character: &
Enter an arithmetic expression (or type 'exit' to quit):
(((3 + 4) - 2) + (1)
Error: Unmatched parentheses
Enter an arithmetic expression (or type 'exit' to quit):
((5 + 2) / (3 * 0))
Error: Invalid Operator Usage
Enter an arithmetic expression (or type 'exit' to quit):
((2 -) 1 + 3)
Error: Missing Operator
Enter an arithmetic expression (or type 'exit' to quit):
((4 * 2) + ( - ))
Error: Missing Operand
Enter an arithmetic expression (or type 'exit' to quit):
((7 * 3) ^ 2)
Error: Invalid character: ^
Enter an arithmetic expression (or type 'exit' to quit):
((2 -) 1 + 3)
Error: Missing Operator
```