

Data Structure Assignment #4 The Calculator

It's required to implement The Calculator application, Our calculator should only handle the following operations:

$() * / ^ + -$

You must implement it with the infix and postfix methods.

Consider using the Linked list and stack you've implemented in this course.

Sample Run: (inputs in green)

Welcome to Calculator

Operation: $2 + 3 * 5$

17

Operation: $1 - 1 * 7 + 15 * 1 + 2 ^ 2 + 0.5$

13.5

Operation: $2 + 3 * 5 + 5 * (5 / 1 - 0 * 50)$

42

Operation: $10 / 0$

Can't divide by zero

Operation: $(5 - 4 * 6 / (5 + 8 * 2 - 3 ^ 2) - (5 * 5 ^ 2) - 10 * 10) * 0.5$

-111

Operation: end

Hint: You can split input string by space.