

Program #2 - Due Tuesday, Sept. 15

Postfix notation is a way of writing an arithmetic expression without using parentheses. For example, the expression

$$((7 - 3) * (16/4)) - (((13 + 8) - 12) / 3 + (18 - 6))$$

would be written as

$$7\ 3\ -\ 16\ 4\ /\ * \ 13\ 8\ +\ 12\ -\ 3\ /\ 18\ 6\ -\ +\ -$$

Your program should

1. allow the user to input a postfix expression,
2. store the expression as a stack,
3. use other stacks to assist in the evaluation of the expression, and
4. if the expression is not a valid postfix expression, the program should return an error message to that effect.