

Evaluating Postfix Expression

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Introduction

The easiest way to do this is to use a stack.

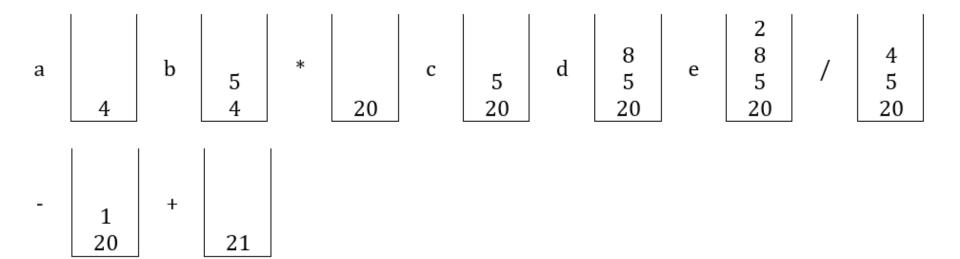
Algorithm

- Make an empty stack.
- Read the postfix expression one character at a time until it encounters end of expression.
- If the character is an operand, push its associated value onto the stack.
- If the character is an operator, pop two values from the stack, apply the operator to them and push the result onto the stack.

Example: a b * c d e / - +

- Let us consider the symbols a, b, c, d, e had the associated values:
 - $a \rightarrow 4$
 - $b \rightarrow 5$
 - $c \rightarrow 5$
 - $d \rightarrow 8$
 - $e \rightarrow 2$

Example: a b * c d e / - +



Queries?

Thank You!