

Infix notation - A binary operator appears between its operands.
 - More complex than postfix, because it requires the use of operator precedence and parentheses.
 -In addition, some operators are left-associative, and a few are right-associative.

Postfix/RPN Expression Notation -places the operator after its operands

-easy to evaluate using a single stack to hold operands.

-The rules:

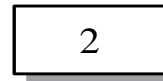
- 1) Immediately push an operand onto the stack.
- 2) For a binary operator, pop the stack twice, perform the operation, and push the result onto the stack.
- 3) At the end a single value remains on the stack. This is the value of the expression.

RPN expression 2 3 +

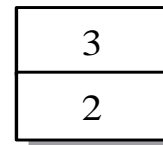
Scan of Expression and Action

Current operandStack

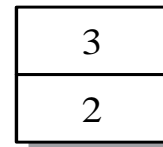
1. Identify 2 as an operand.
 Push integer 2 on the stack.



2. Identify 3 as an operand.
 Push integer 3 on the stack.



3. Identify + as an operator
 Begin the process of evaluating +.



4. getOperands() pops stack twice and assigns 3 to right and 2 to left.

operandStack empty

5. compute() evaluates left + right and returns the value 5. Return value is pushed on the stack.

