

Project 02 published

Lab 03 - due now Tue Sep 8th 11:59pm

Lab 03 - mark test

Parsing

expression ::= operand operator operand BOT
operand ::= integer

$\Rightarrow 1 + 2$
 $1 - 2$

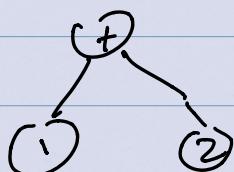
expression ::= operand (operator operand)* BOT
operand ::= integer

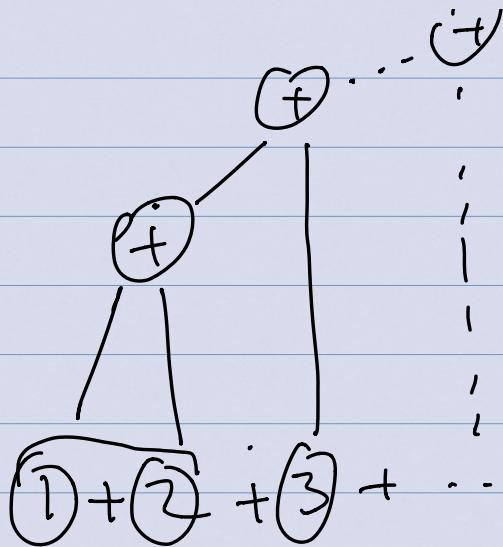
1 - 2 + 3 + 4

argc = 3

. / lab 03 [-e] ["1 + 2"]
 ↑ ↑ ↑
 argv[0] argv[1] argv[2]

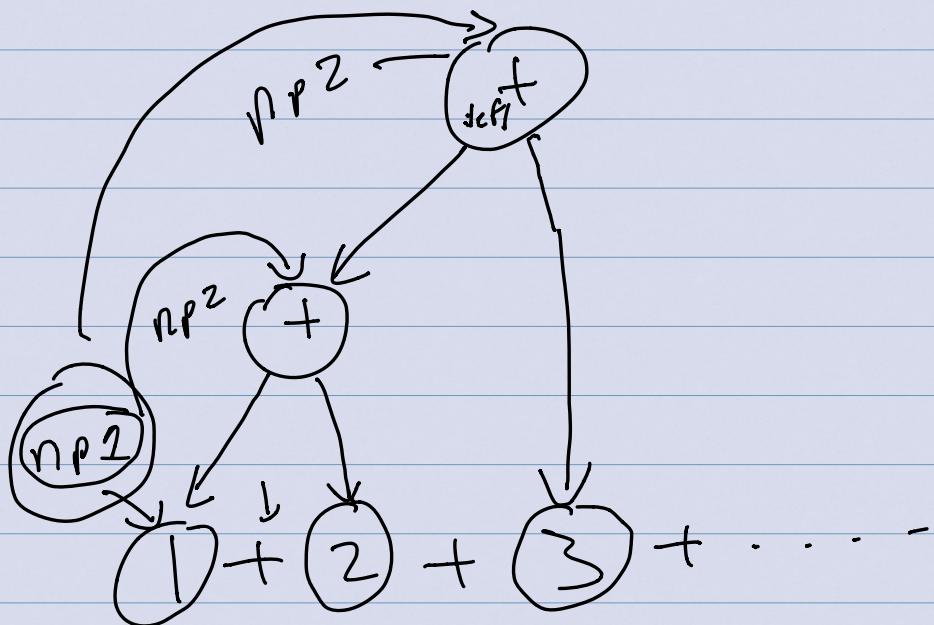
1 + 2





$1 + 2 \underbrace{4}_{\text{EOT}}$
 ↑
 " $1 + 2 \underbrace{4}_{\text{EOT}}$ "

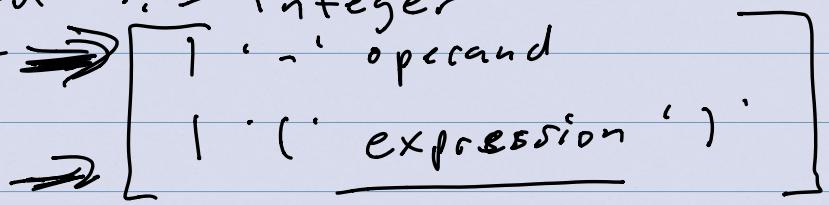
TK-INFLIT TK-PLUS TK-INFLIT TK-INFLIT



$\rightarrow \text{expression} ::= \text{operand} (\text{operator} \text{ operand})^* \text{ BOT}$

$\text{operand} ::= \text{integer}$

$\text{OPER1} \Rightarrow$



$\nearrow \text{all } +, -, \cdot, /$

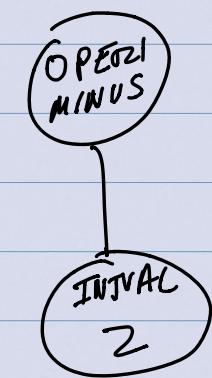
$\rightarrow \text{else if } (\text{token-table-accept}(\text{st}, \text{TK_MINUS}))$

$\boxed{\text{OPER1}}$

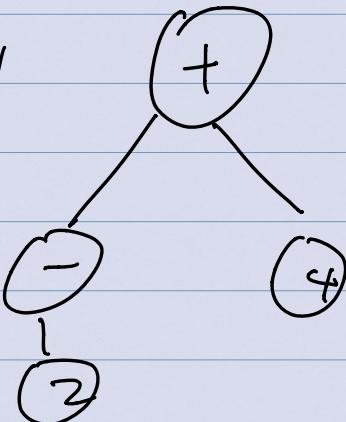
TK_MINUS

$\rightarrow \text{else if } (\text{token-table-accept}(\text{st}, \text{TK_LPAREN}))$

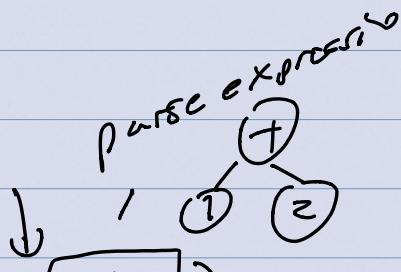
$\boxed{\cdot (\cdot \cdot)}$



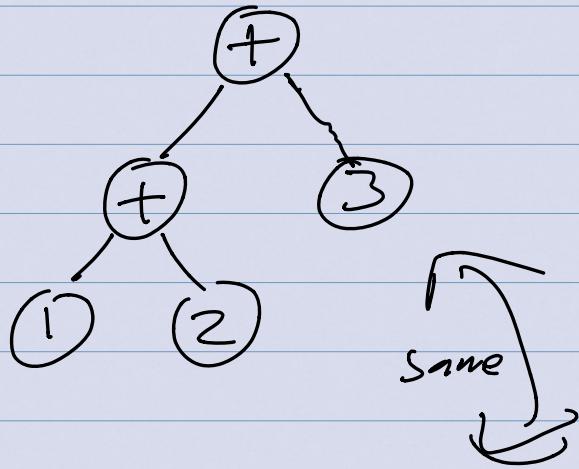
$-2 + 4$



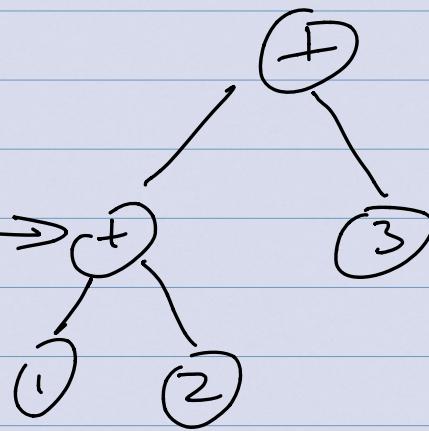
$$1 + 2 + 3$$



$$(1+2)+3$$

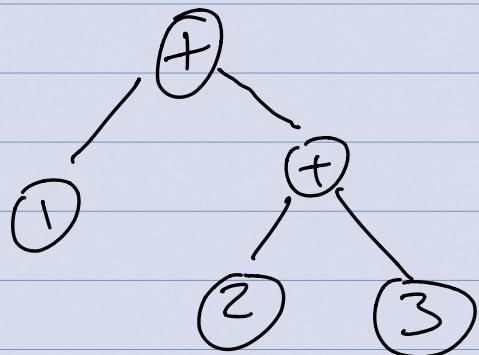


pp1



$$1 + (2+3)$$

$$1 + (2+3)$$

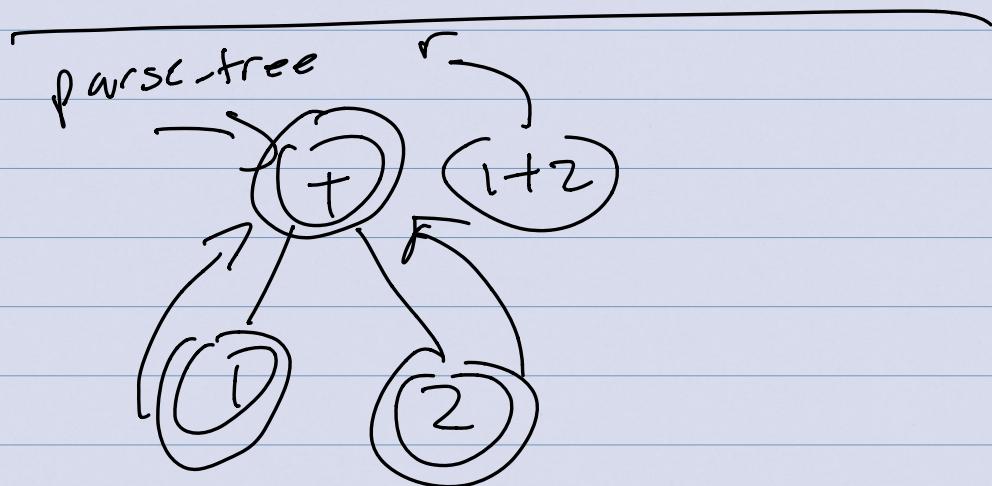


$$(1+2) + 3$$

↑

`int x = 0xF12,`

`int x = 0b0110`



r = eval_tree(parse-tree)

(1)

(2)

①

$$1 + 2$$

$$1 + 2 + 3$$

$$(1+2) + 4 + 5$$

