

$((A+B) + (C + \sim B)) - (C+3)$

Initial Nested
Arithmetic
Expression

flattenNestedArithmetic

[A; B; C; -B; -1; -C; 3]

Flat List

Initial State:
(0, Map<FastAlgExp,int>)

List.Fold

2, {A:1; B:0; C:0;}

Final State

Reassemble
Arithmetic

$(A + 2)$

Reduced
Arithmetic
Expression