

## Semantische Regeln

literal:

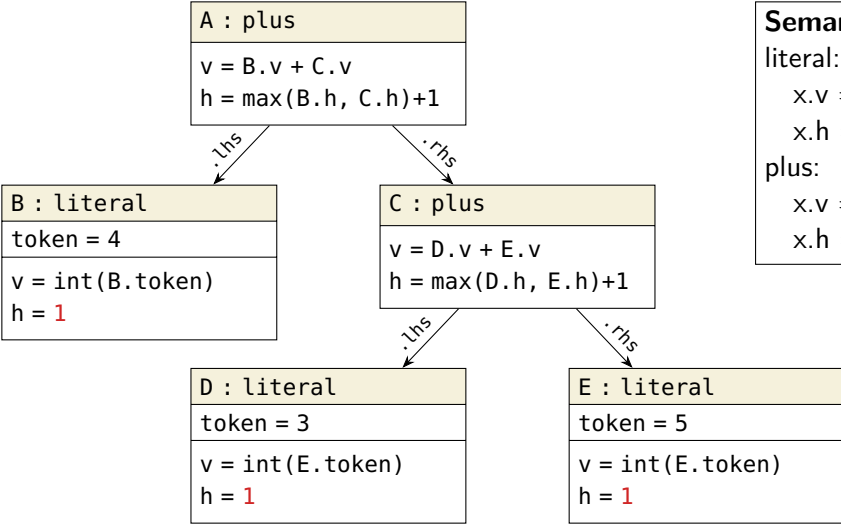
$x.v = \text{int}(x.\text{token})$

$x.h = 1$

plus:

$x.v = x.\text{lhs}.v + x.\text{rhs}.v$

$x.h = \max(x.\text{lhs}.h, x.\text{rhs}.h) + 1$



## Semantische Regeln

literal:

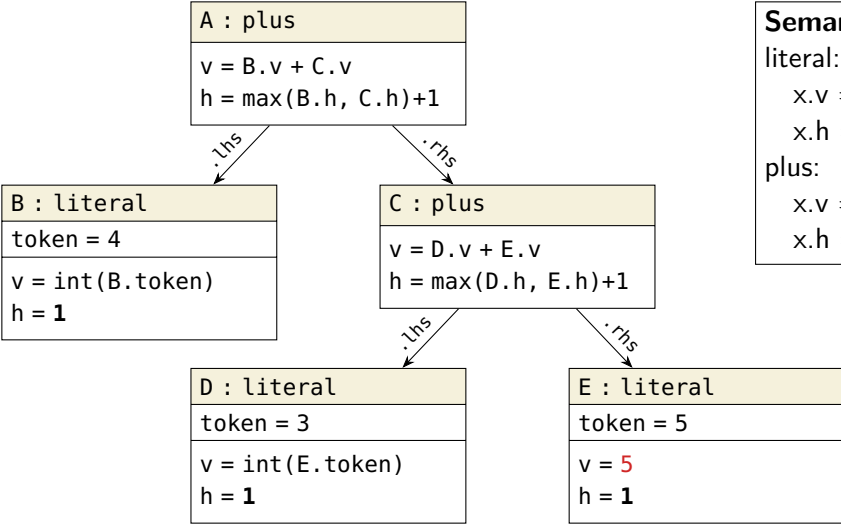
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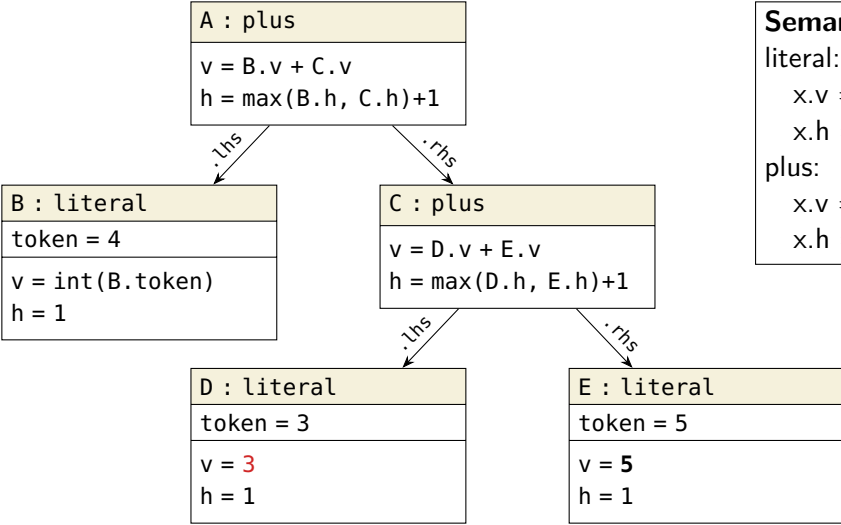
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<b>A : plus</b>
$v = B.v + C.v$ $h = \max(B.h, C.h) + 1$

$\swarrow$  .lhs

$\searrow$  .rhs

<b>B : literal</b>
token = 4
$v = \text{int}(B.\text{token})$ $h = 1$

<b>C : plus</b>
$v = D.v + E.v$ $h = 2$

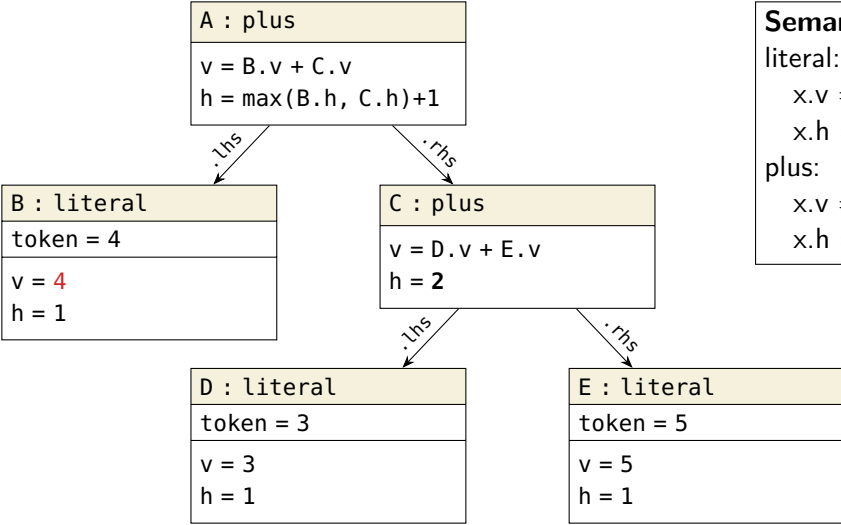
$\swarrow$  .lhs

$\searrow$  .rhs

<b>D : literal</b>
token = 3
$v = 3$ $h = 1$

<b>E : literal</b>
token = 5
$v = 5$ $h = 1$

<b>Semantische Regeln</b>
literal:
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## Semantische Regeln

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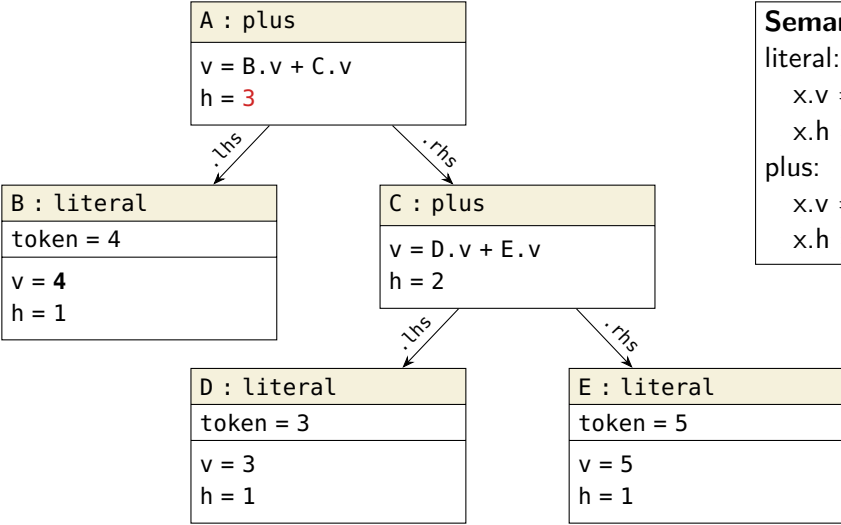
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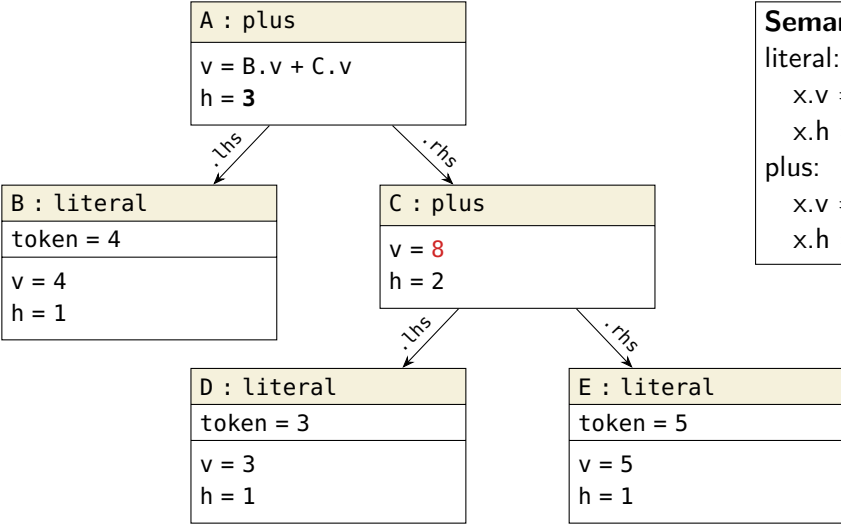
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plus:

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$x.h = \max(x.\text{lhs}.h, x.\text{rhs}.h) + 1$



<b>A : plus</b>
v = 12
h = 3

↙  
·lhs

↘  
·rhs

<b>B : literal</b>
token = 4
v = 4
h = 1

<b>C : plus</b>
v = 8
h = 2

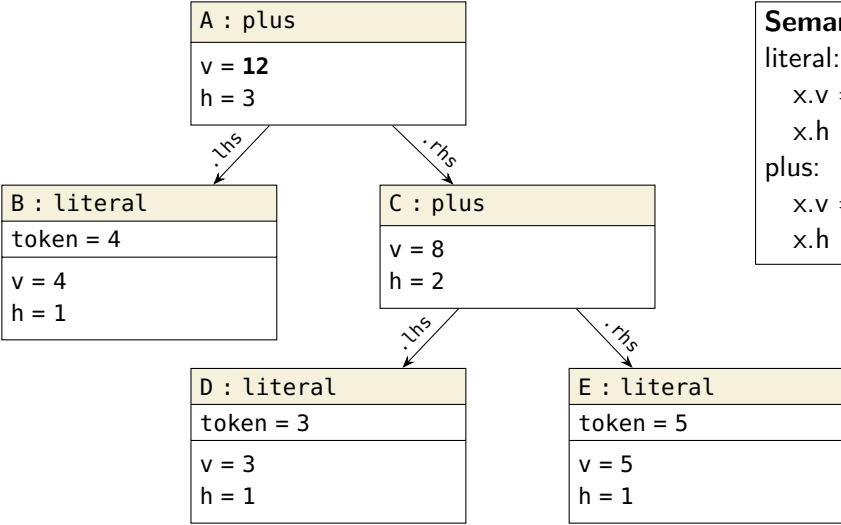
↙  
·lhs

↘  
·rhs

<b>D : literal</b>
token = 3
v = 3
h = 1

<b>E : literal</b>
token = 5
v = 5
h = 1

<b>Semantische Regeln</b>
literal:
$x.v = \text{int}(x.\text{token})$
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plus:
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