tq :
A Comprehensive Disciplinary Language for Materials Science

Kou Amano† Koichi Sakamoto†
†Natinal Institute for Materials Science

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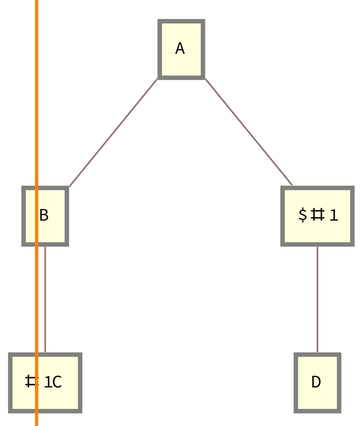
Parsing

Parsing tree

Interpreted structure



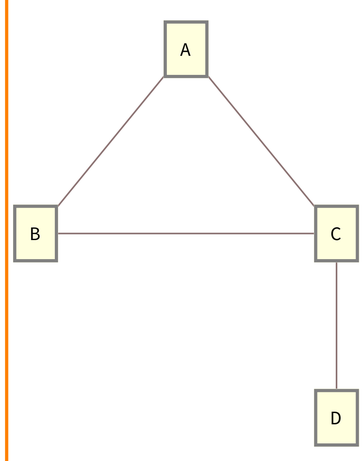
Statements

Input:
A(B(#1C),$#1(D))
Output:
A(B(#1C),$#1@#1C(D))

Parsing graph

Implicit graph

Interpreted structure

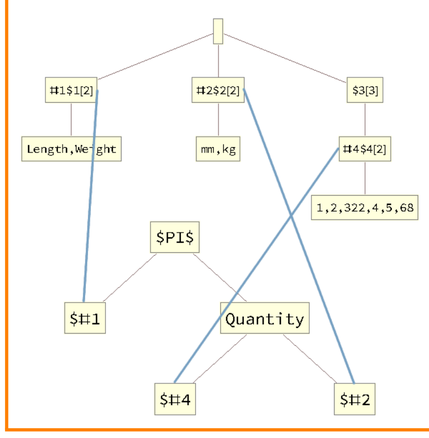


Statements

Input:
A(B(#1C),$#1(D))
Adjacency matrix:
[:A:0],1,2,3,,
,[:B:1],2,,,
,,[:#1C:2],,,
,,,[:$#1:3→2],4,
,,,,[:D:4],

Binding and reforming data

Interpreted structure



Statements

Input:

(#1$1[2],#2$2[2],$3[3](#4$4[2]));
PI($#1,Quantity($#4,$#2))

Data:

Length,Weight, mm,kg, 1,2, 322,4, 5,68

Output:

(((Length,Quantity(1,mm)),
(Weight,Quantity(2,kg))),
((Length,Quantity(322,mm)),
(Weight,Quantity(4,kg))),
((Length,Quantity(5,mm)),
(Weight,Quantity(68,kg))))