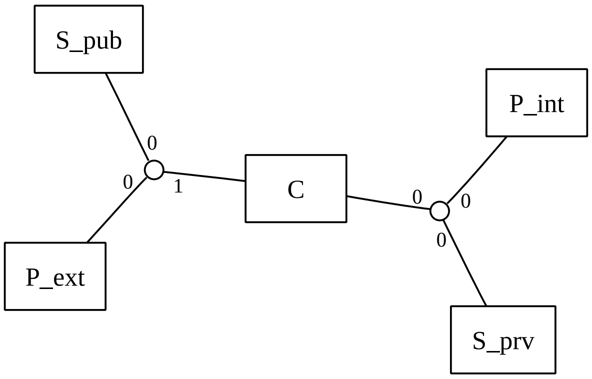
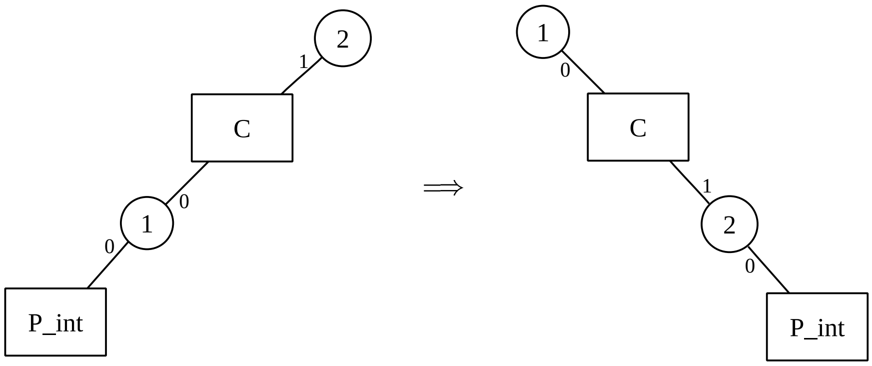
Initial graph:



rule1:



rule2: