lib/basic/eval-problem.ath

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# This problem was fixed in r1764.  Both eval1 calls now work,
# with or without commenting out the open and close of module PLUS.

# Showing a problem with eval. (We call eval1 because a try call in
# eval obscures the error.)  The problem occurs when an axiom is
# nested more than one module level deep and applies recursively.

datatype N := zero | (S N)

module N {

declare Plus: [N N] -> N [+]

#module PLUS {

 assert right-zero    := (forall ?n . ?n + zero = ?n)
 assert right-nonzero := (forall ?m ?n . ?n + (S ?m) = (S (?n + ?m)))

 (eval1 ((S zero) + zero))

 (eval1 ((S zero) + (S zero)))

#} # PLUS
} # N

# Both eval1 calls work, but the second one fails if you uncomment the
# open and close of module PLUS, with the error

# /Users/musser/se-proposals/proofs/lib/basic/eval-problem.ath:3:22:
# Error: Could not find a value for N.Plus`.

# Note that the line number in the error, 3, is incorrect.
```