

4.191
let (C a 1))
(define (F x)
 (define b (+ a x))
 (define a 5)
 (+ a b))
(F 10))

I agree with Eva's view:

definitions are intended in a functional, timeless manner, which means a and b "should" bind to each other at the same time. Therefore the above ought to, in principle, return 20.

Can I devise a way to implement internal definitions so that they behave as Eva prefers?

In a general, efficient manner? Probably not as a 20m-30m exercise, huh. Two ideas that spring to mind are multiple passes or using a CSP-solver. Neither of which are particularly efficient. Use lazy evaluation if `*unassigned*` gets encountered?