

```
;; cyclic-env :: id expr env -> env
;; Assumption: expr is a function expression
(define (cyclic-env id fun-expr env)
  (def fun-val-holder (box 'dummy))
  (def new-env (box-extend-env id fun-val-holder env))
  (def fun-val (eval fun-expr new-env))
  (begin
    (set-box! fun-val-holder fun-val)
    new-env))
```