

```
;; Print an environment without looping endlessly.
;; The helper functions printscope, printbinding, and printvalue
;; can be used individually as well.
;; This doesn't work if the environment contains a variable whose
;; value is an environment, such as when running the Scheme interpreter
;; on top of itself.
```

```
(define (printenv env)
  (display "(")
  (newline)
  (map printscope env)
  (display ")")
  (newline))

(define (printscope alist)
  (display "(")
  (newline)
  (map printbinding alist)
  (display ")")
  (newline))

(define (printbinding b)
  (display "(")
  (write (car b))
  (display " ")
  (printvalue (cadr b))
  (display ")")
  (newline))

(define (printvalue v)
  (if (and (pair? v) (eq? (car v) 'closure))
      (begin
        (display "(closure ")
        (write (cadr v))
        (display "...")
        (write v))
      (write v)))
```