```
(deftype Env
  (mtEnv)
  (aEnv id val env))

(define empty-env (mtEnv))

(define extend-env aEnv)

(define (env-lookup x env)
  (match env
    [(mtEnv) (error 'env-lookup "free identifier: ~a" x)]
    [(aEnv id val rest) (if (symbol=? id x)
                            val
                            (env-lookup x rest))]))
```