

```
:: eval :: Expr Env -> number/procedure
(define (eval expr env)
  (match expr
    [(num n) n]
    [(fun id body) (λ (arg-val) (eval body (extend-env id arg-val env)))]
    [(app f e) ((eval f env) (eval e env))]
    [(id x) (env-lookup x env)]
    [(add l r) (+ (eval l env) (eval r env))]
    [(if0 c t f) (if (zero? (eval c env)) (eval t env) (eval f env))]))
```