

```
;; eval :: Expr listof(FunDef) -> number
;; evaluates an arithmetical expression with function calls
(define (eval expr f-list)
  (match expr
    [(num n) n]
    [(add l r) (+ (eval l f-list) (eval r f-list))]
    ...
    [(app f e) (def (fundef _ the-arg the-body) (look-up f f-list))
                 (eval (subst the-body the-arg (num (eval e f-list))) f-list)]))
```