

```
;; parse :: s-expr -> Expr
;; converts s-expressions into Exprs
(define (parse s-expr)
  (match s-expr
    [ n #:when (number? n) (num n) ]
    [(list '+ l r) (add (parse l) (parse r))]
    [(list '- l r) (sub (parse l) (parse r))]
    [(list 'if0 c t f) (if0 (parse c)
                             (parse t)
                             (parse f))]))
```