```
1 #lang racket
 2
 3
    (struct Zero () #:transparent)
 4
    (struct Succ (n) #:transparent)
 5
 6
    (define (make-number prev)
 7
      (match prev
        ((Succ prev) (Succ (Succ prev)))
 8
        ((Zero) (Succ (Zero)))
 9
        (_ (printf "Error: not a valid number!"))))
10
11
    (define one (make-number (Zero)))
12
13
    one
14
    (define two (make-number one))
15
16
17
    two
18
19
    (define (addition n1 n2)
20
      (match n1
        ((Zero) n2)
21
22
        ((Succ i)(addition i (Succ n2)))))
23
    (addition two two)
24
25
    (struct Pred (n) #:transparent)
26
27
    (Pred (Zero))
28
29
30
    (define (make-number-2 prev)
31
      (match prev
32
        ((Succ prev) (Succ (Succ prev)))
33
        ((Zero) (Succ (Zero)))
        ((Pred n) n)
34
        (_ (printf "Error: not a valid number!\n"))))
35
36
37
    (make-number-2 (Zero))
38
```