



Solutions to the exercises

Exercise 1: 2

Exercise 2: 208539793

Exercise 3: `:t x is x:[6], :t y is y : {n} (n >= 5, fin n) => [n]
:t x+y is (x+y) : [6]`

Exercise 4: `:safe` is applied to an expression to determine whether it will encounter a run-time error. Simple use:
Cryptol> `:safe 1:[34]`
Safe
(Total Elapsed Time: 0.010s, using "Z3")

Exercise 5: `let x=1276439805:[32]
complement x = 0b10110011111010110001001100000010 = 3018527490`

Exercise 6: `(ratio 1 2)/.(ratio 2 3)/.(ratio 3 4)/.(ratio 4 5)
is (ratio 5 4)`

Exercise 7: `foldl (/.) (ratio 1 2) [(ratio 2 3), (ratio 3 4), (ratio 4 5)]`

Exercise 8: `(((*) 2) 4)` is 8, `(((*) 2) 8)` is 16 and so on

Exercise 9: `map ((*) 2) [3,67,22,43,12,16]`

Exercise 10: `split [1,2,3,4,5,6,7,8]:[4][2][16]`