

Bin. stromy

data GeneralTree a b = List b | Tree (Tree a b) a (Tree a b)

depth :: Tree a -> Int -> Int
 depth Ext = 0
 depth (Node l x r) = (max (depth l) (depth r)) + 1

find x Ext = false
 find x (Node l y r) = case compare x y of
 LT -> find x l
 EQ -> true
 GT -> find x r

Multimoziny Tree (a, list)

find Ext = 0
 :: compare x (fst y) of
 EQ -> find y

SoldTree... size = St (l x + -> l + r + 1) 0
 depth T = St (l x + -> (max l r) + 1) 0

find x = SoldTree (\l y r -> l || (y == x) || r) False
 SoldTree (l x r = x : (l + r + 1)) $\Theta(n)$

a => b
 "Constraint"

a k c e... 1) dostaneš hodnotu, na její základě něco around
 2) dostaneš akci, tak na ni reaguj

Funktor

fmap (a -> b) -> (a -> b)

Aplikativní Funktory

list A z :: (a -> b -> c) -> (A -> B -> C)
 pure :: a -> (a)
 <*> :: (a -> b) -> (a -> b)

list A B f x y z = f (f) x (f) y (f) z

Monáda

a, a -> b -> b

a -> a -> b

bind :: (a -> (a -> b)) -> b
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