3. Implemente mirror = (g) em Haskell definindo previamente outLTree e o combinador cataLTree (catamorfismo de LTrees).

```
In [1]:
         -- loading Cp.hs
         :opt no-lint
         :load ../src/Cp.hs
         :set -XNPlusKPatterns
In [2]:
         data LTree a = Leaf a | Fork (LTree a, LTree a) deriving (Show)
         :t Leaf
         :t Fork
         -- outLTree
         outLTree (Leaf a) = i1 a
         outLTree (Fork (a,b)) = i2 (a,b)
         :t outLTree
         -- cataLTree
         cataLTree g = g . (id -|- (cataLTree g >< cataLTree g)) . outLTree
         :t cataLTree
         -- mirror
         q1 = Leaf
         :t g1
         g2 = Fork \cdot swap
         :t g2
         mirror = cataLTree (either q1 q2)
         :t mirror
         -- testing
         mirror (Fork (Fork (Leaf 1, Leaf (2)), Leaf (3)))
       Leaf :: forall a. a -> LTree a
       Fork :: forall a. (LTree a, LTree a) -> LTree a
       outLTree :: forall a. LTree a -> Either a (LTree a, LTree a)
       cataLTree :: forall b d. (Either b (d, d) -> d) -> LTree b -> d
       g1 :: forall a. a -> LTree a
       g2 :: forall a. (LTree a, LTree a) -> LTree a
       mirror :: forall a. LTree a -> LTree a
        Fork (Leaf 3, Fork (Leaf 2, Leaf 1))
```