```
-- Solutions to Lab 12
-- Copyright [2001..2002] Keller & Chakravarty
module LabTree
where
data Tree a = Leaf
            | Node a (Tree a) (Tree a)
           deriving (Show)
-- depthTree:: add 1 to the maximum depth of
-- the left and the right subtree
depthTree :: Tree a -> Int
depthTree Leaf = 0
depthTree (Node x t1 t2) =
 1 + max (depthTree t1) (depthTree t2)
-- just swaps left and right subtree in each step
reverseTree:: Tree a -> Tree a
reverseTree Leaf = Leaf
reverseTree (Node x t1 t2) =
 Node x (reverseTree t2) (reverseTree t1)
```