Exercise 12

```
treeMap :: (a -> b) -> Tree a -> Tree b
treeMap f Empty = Empty
treeMap f (Node l v r) =
   Node (treeMap f l) (f v) (treeMap f r)
treeFoldr f acc Empty = acc
treeFoldr f acc (Node l v r) =
    let acc' = treeFoldr f acc l
       acc'' = treeFoldr f acc' r
    in f v acc''
height Empty = 0
height (Node l _ r) =
   max (height l) (height r) + 1
isBST t = fst .
          foldl lt (True, Nothing) $
          inorder t
 where
    lt (False, _) _ = (False, Nothing)
    It (True, Nothing) x = (True, Just x)
   It (True, Just b) x = (b \le x, Just x)
```