CSE 130 (Wi 25) Handout

March 6, 2025

Question 1

Consider the datatype data Tree a = Leaf | Node a (Tree a) (Tree a) Fill in the type and implementation of mapTree

mapTree :: _____

mapTree ___

So that the function showTree behaves as shown below

```
-- >>> showTree (Node 2 (Node 1 Leaf Leaf) (Node 3 Leaf Leaf))
-- (Node "2" (Node "1" Leaf Leaf) (Node "3" Leaf Leaf))
```

showTree :: Tree Int -> Tree String
showTree t = mapTree (\n -> show n) t

Question 2

Fill in the implementation of a function

combine :: [a] -> (a -> [b]) -> [b]

combine xs f =

So that when you are done we get the following behavior