## CSE 130 (Wi 25) Handout

March 11, 2025

## Question 1

here is a common pattern across two datatypes
apList :: (a -> b) -> List a -> List b List apTree :: (a -> b) -> Tree a -> Tree b Tree
ets make a class for it! What type do w
lass Mappable t where
map ::
nstance Mappable List where
map =
map =
nstance Mappable Tree where
map =
map =
Quarties 2

## **Question 2**

Recall the Monad instance for [a]

How can you use >>= and return to implement the map function for lists?

```
map :: (a -> b) -> [a] -> [b]
map f xs = do
```