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```
class Functor f where
      fmap :: (a -> b) -> f a -> f b
```

```haskell
-- List Functor Instance
instance Functor [] where
      fmap = map


-- Maybe Functor Instance
instance Functor Maybe where
      fmap _ Nothing       = Nothing
      fmap f (Just a)      = Just (f a)


-- Either Functor Instance
instance Functor (Either a) where
      fmap _ (Left x) = Left x
      fmap f (Right y) = Right (f y)
```

```haskell
class Functor f where
      fmap :: (a -> b) -> f a -> f b
```


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