# **Monads**

```
forecast Handler A
```

#### **Introduction to Monads**

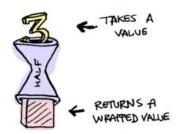
# **Monads**



Consider that *half* is a function that only makes sense on even numbers:

We can see the function like this: Given a value, return a packed value.

But then we can't stuff packed values into it!





#### We need a function that unpacks, applies half and leaves encapsulated.



This function is called >>= (pronounced bind)

The operator >>= is an operation of the class Monad:

```
class Applicative m => Monad m where

(>>=) :: m a -> (a -> m b) -> m b

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```

The type Maybe is istance of Monad:

```
instance Monad Maybe where
  Nothing >>= f = Nothing
  Just x >>= f = f x
```

### Instructor Youtube Channel: Lucas Science



