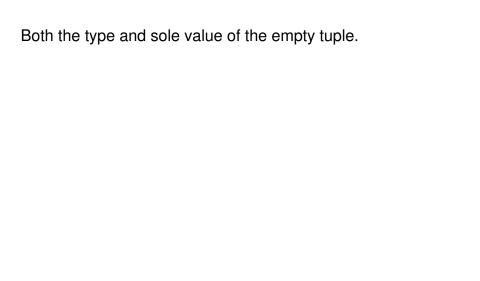
What is ()?



What are Haskell's capitalization rules?

## Types start with an uppercase character, variables with a lowercase letter.

What is the key benefit of type variables over generics?

Type variables stay maximally general (polymorphic), being restricted only by the ways the type is used. Generics force you to anticipate the maximum generality yourself when declaring the generic type's bounds.

From an object-oriented point of view, a typeclass can be thought of as ...

... an interface. It creates a contract that defines the behaviors of types of that class.

From Haskell's point of view an operator is different from a function only in that ...

... its name consists of only special characters and is infix by default.

What does => do in a type signature?

It indicates a class constraint. The left hand side indicates class membership/s (comma separated) of the type variables

used on the right hand side.

What is Eq?

What are some prominent non-Eqs?

The type class for types that can be tested for equality.

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IO and functions are not members.

Haskell's equivalent of Java's Comparable is ...

... Ord.

What is the Show typeclass?

Its members can be presented as strings using the show function.

## How do you go back from show's string representation to the object itself?

What's the catch?

The Read typeclass defines read which does just that.

However, in order to know what type is desired, the result of read must be used in an expression.

What is a type annotation?

Haskell's term for a manifest type. It's not an annotation on a

type in the sense of Scala's @specialized. Haskell type annotations use the :: followed by the type. Members of Enum can do what?

What about Bounded?

They can be enumerated.

They have an upper and a lower bound: maxBound and minBound.

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Give two examples of polymorphic constants.

```
ghci> :t 0
0 :: (Num t) => t
ghci> :t maxBound
maxBound :: (Bounded a) => a
```

## Make integral and floating point types play nice together.

What is that function's signature?

ghci> :t fromIntegral
fromIntegral :: (Integral a, Num b) => a -> b