COMP6991 23T1

Polymorphism

Smallest Value

Example time!

> Example: generics.rs

Notes:

> Becoming generic

> Monomorphization

> Generic container

Type parameters
as type constructors

> What is the type `Option`?

> Ty -> Ty

> Types as restrictions

Traits

Common Std Traits

General

> **Default**

> **Copy**

> **Clone**

Common Std Traits

Formatting

> **Debug**

> **Display**

> **ToString**

Common Std Traits

Operators

> PartialEq (& Eq)

> PartialOrd (& Ord)

> Add (& AddAssign)

> BitAnd (& BitAndAssign)

> ...

Common Std Traits

Conversion

> From

> Into

> TryFrom

> TryInto

> FromStr

> AsRef (& AsMut)

> Borrow (& BorrowMut)

> ToOwned

Common Std Traits

Error

> Error

Common Std Traits

Iteration

> **Iterator**

> **IntoIterator**

> **FromIterator**

Iterator trait

Fibonacci

Example time!

> Example: iter.rs

MyVecIter

Example time!

> Example: iter.rs

Trait objects