COMP6991 24T1

Polymorphism

Smallest Value

Example time!

> Example: generics.rs

Notes:

> Becoming generic

> Monomorphization

> Generic container

Type parameters
and 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