## Library-defined Operators Solutions

## Library-defined operator objects

Explain what the following code represents

```
std::less<T>
```

- std::less<T> is a generic functional operator
- It is a functor
- We can create a functional operator object and call it with two arguments of type T
- It will call the < operator of T
- Which header file is std::less defined in?
  - std::less is defined in <functional>

## Default template argument

- Using the techniques in this lecture
  - Write a template class with two data members and a member template
  - The member template compares the data members of the class and returns the result
  - The comparison will use a callable function object which is provided by the member template's caller
  - If no function object is provided, use the < operator of the data members instead
  - (Similar to STL algorithms like std::sort)
  - Write a program and test your class