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 non-member function

  - The function compares its first two arguments and returns the result

  - The comparison will use a callable function object which is passed as the third argument

  - If no function object is passed, use the < operator of the data members instead

  - (Similar to STL algorithms like std::sort)

  - Write a program and test your class