Lambda Expressions Introduction Exercises

Function call operator example

- Write a class with a function call operator
  - The function call operator takes one argument, of type int
  - The function call operator returns bool
  - The return value is true if the argument is an exact multiple of 2, otherwise false
- Write a program to test your class

The need for lambdas

- Describe some of the disadvantages of using functors to provide predicate functions for algorithms

Lambda Expressions

- Explain briefly what is meant by a lambda expression
- Explain briefly how a lambda expression is implemented by the compiler

Lambda Function Syntax

- When creating a lambda expression, how do we enter:

- Its name?

- Its arguments?

- Its function body?

Lambda Expression Return Type

- When creating a lambda expression, how do we enter its return type?

Example of lambda expression

- Rewrite your program from the first exercise to use a lambda expression instead of a functor