

Lambda Functions Part Two

Solutions

- Rewrite the `equal_strings()` function from earlier in the course, using an algorithm and a lambda expression
- Write a simple program to test your function

- What are the advantages of this implementation of `equal_strings()` compared to writing a loop?
 - More concise, easier to get right, easier to read and understand
 - Algorithm function has already been tested and debugged
 - May be better optimized
- Are there any disadvantages?
 - May be confusing for programmers not used to lambdas
 - Not available with older C++ compilers

- What is meant by "capture" in a lambda expression?
 - A variable from the enclosing scope is available for use in the lambda expression body
- What is the syntax for performing lambda capture?
 - The name of the local variable is put inside the []
- How is lambda capture implemented?
 - The compiler generates a functor with a private data member which stores a copy of the variable

- Rewrite the `find_if()` function from earlier in the course, using a lambda function with capture instead of a functor
- Write a simple program to test your code