Lambda Expressions and Capture Exercises

Lambda Expressions and Variables

- What access to other variables does a lambda expression have by default?
- Write a simple program to demonstrate this access

Lambda capture

- What is meant by "variable capture" for a lambda expression?
- What syntax is used for variable capture?
- How is variable capture implemented?

Variable capture example

- Write a program which creates a vector and calls find_if() to search for an element with a given property
- For the predicate function, use a lambda expression with hard-coded data
- Rewrite your program to use a local variable which is captured by the lambda expression
- Write an equivalent program which uses a functor instead of a lambda expression

Mutable lambda

- The following code attempts to find the index of the first match
- Why does it not produce the desired results?