

for\_each Algorithm Solutions

# for\_each()

- Briefly explain what the for\_each() algorithm does
  - for\_each() calls a function on every element in an iterator range
- Write a simple program that demonstrates the use of for\_each()
- Write the equivalent code, using a range-for loop

# for\_each() and Modification

- How can the `for_each()` algorithm be used to modify elements?
  - The element is passed to the function by reference
- Write a simple program that uses `for_each()` to modify the elements of a container
- Write the equivalent code, using a range-for loop

# for\_each() vs Loops

- What are the most important differences between for\_each() and using a range-for loop?
  - a range-for loop has to access all the elements in a container
  - for\_each() can be restricted to a sub-range
  - A range\_for loop can terminate early with a break or return statement
  - for\_each() can only follow a single path through the code