# Numeric Algorithms Solutions

# iota()

- What does iota() do?
  - iota() populates an iterator range with values which successively increase by 1
- What arguments does iota() take?
  - The iterator range and the value of the first element
- Write a simple program that uses iota() to populate a vector
- Write the equivalent program without using iota()

# accumulate()

- What does accumulate() do?
  - accumulate() returns the sum of all the elements in an iterator range
- What arguments does accumulate() take?
  - The iterator range and the starting value of the sum
  - Optionally, a function which is used to perform the addition
- Write a simple program that uses accumulate()
- Write the equivalent program without using accumulate()

# accumulate() with extra argument

- Write a simple program that uses accumulate() and a user-provided function