

Numeric Algorithms

Exercises

- What does `iota()` do?
- What arguments does `iota()` take?
- Write a simple program that uses `iota()`
- Write the equivalent program without using `iota()`

- What does `accumulate()` do?
- What arguments does `accumulate()` take?
- Write a simple program that uses `accumulate()`
- Write the equivalent program without using `accumulate()`

- Write a simple program that uses `accumulate()` and a user-provided function. Implement the user-provided function as
 - A lambda function
 - A functor

- (Optional) Describe what the following algorithms do. Suggest an situation in numerical computation where they could be applied:
 - `partial_sum()`
 - `adjacent_difference()`
 - `inner_product()`