

# Overview of Generic Algorithms Exercises

- Describe a typical generic algorithm function in terms of:
  - The arguments it takes
  - The processing it does
  - The value it returns

- Write a simple program that uses a generic algorithm function to find a character in a `std::string` instance
- Print out
  - The search character (if found)
  - The string up to the first occurrence of the search character
  - The rest of the string following the first occurrence
- What happens if the search character is not found?

- Describe how the `std::find()` algorithm works

- What is meant by a predicate function?
- Why are predicate functions important in the context of algorithms?
- Suggest a way in which we can pass predicate functions to an algorithm

- Which operator is used by the `sort()` algorithm to order the elements in a container?
- Give a brief description of how the `sort()` algorithm works

- Write a simple program which instantiates a vector with string elements and sorts the elements in alphabetical order
- Alter your program so that it sorts the elements according to their length