

Searching Algorithms

Continued Solutions

mismatch()

- Describe the mismatch function
 - `mismatch()` takes two iterator ranges and looks for differences between the two ranges
 - It returns a pair to the first element that has a different value in each range
- Write a simple program which demonstrates the use of `mismatch()`

"Some of" algorithms

- Describe the `all_of`, `any_of` and `none_of` functions
 - These three algorithms take an iterator range and a predicate
 - `all_of()` returns true if the predicate is true for every element
 - `any_of()` returns true if the predicate is true for at least one element
 - `none_of()` returns true if the predicate is false for every element
- Write a simple program which demonstrates the use of each function

binary_search()

- Describe the `binary_search` function
 - `binary_search()` takes an iterator range and a value
 - It returns a `bool`, depending on whether the iterator range contains an element with that value
- Write a simple program which demonstrates the use of `binary_search()`

includes()

- Describe the includes function
 - includes() takes two iterator ranges
 - It also assumes the iterator ranges are sorted
 - includes() returns a bool, depending on whether all the elements in the second range are present in the first range
- Write a simple program which demonstrates the use of includes()