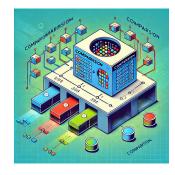
compare functions

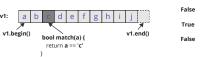
Comparison functions allow us to check whether ranges of elements are equal, whether one sequence is lexicographically less than another, or whether elements follow certain relationships.

- 1. test elements against function
- 2. compare two vectors for identical
- 3. compare two vectors for permutation



Test functions - test elements using match function

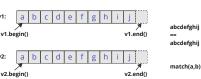
- bool = all of(v1.begin(), v1.end(), match);
- bool = any_of(v1.begin(), v1.end(), match);
- itr = none_of(v1.begin(), v1.end(), match); example file 01 compare1.cpp



Compare functions - compare elements of two vectors

- bool = equal(v1.begin(), v1.end(), v2.begin());
- bool = **equal**(v1.begin(), v1.end(), v2.begin(), match):
- bool = lexicographical_compare(v1.begin(), v1.end(), v2.begin());
- bool = lexicographical compare(v1.begin(), v1.end(), v2.begin(), match);

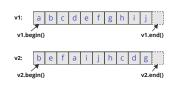
example file 01_compare2.cpp



Permutation functions - compare elements of two vectors regardless of the order

- bool = is_permutation(v1.begin(), v1.end(), v2.begin());
- bool = is_permutation(v1.begin(), v1.end(), v2.begin(), match);

example file 01_compare3.cpp



abcdefghii befaiihcdg

match(a,b)