Non-Modifying Sequence Operations

`min_element(@begin, @end) → @minimum`

`minmax_element(@begin, @end) → (@minimum, @maximum)`

`any_of (@begin, @end, f(c)→bool) →`
`all_of (@begin, @end, f(c)→bool) →`
`none_of(@begin, @end, f(c)→bool) →`
- true, if f yields true for any, all or none element in the input range
- false otherwise

`find_if(@begin, @end , f(c)→bool) →`
`find   (@begin, @end , value )→`
- @1st match
- @end if no match

`count_if(@begin, @end, f(c)→bool) →` number of
`count   (@begin, @end, value ) →` occurrences

`equal(@begin1, @end1, @begin2) → true` if all elements in both ranges are equal

`mismatch(@begin1, @end1, @begin2) → {@mismatch_in1, @mismatch_in2}`

`search(@beg1, @end1, @beg2, @end2) →`
- @1st occurrence of sequence 2 inside sequence 1
- @end1 otherwise

Binary Search On Sorted Sequences ⇒ O(log n)

`lower_bound(@begin, @end, value) →`
- @1st element not < value
- @end if no such element exists

`upper_bound(@begin, @end, value) →`
- @1st element > value
- @end if no such element exists

`equal_range(@begin, @end, value) → {@1st item not < value, @end if none such found), @1st item > value, @end if none such found}`

Reordering Elements

`reverse(@begin, @end)`

`sort(@begin, @end, f(c,c)→bool)`
`sort(@begin, @end )`

`stable_sort(@begin, @end, compare(c,c)→bool)`
"stable" = preserves the relative order of equivalent elements

`nth_element(@begin, @nth, @end)`

element at nth position = element that would be in that position in a sorted sequence

`partition(@begin, @end, f(c)→bool) → @part2`

`rotate(@begin, @newfst, @end) → @old_begin`

`next_permutation(@begin, @end) →` true if new permutation is lexicographically greater

`shuffle(@begin, @end, random_engine)`

Manipulate Sorted Sequences ⇒ O(n)

`merge(@1beg, @1end, @2beg, @2end, @out)`

`set_union(@1beg, @1end, @2beg, @2end, @out)`

Changing Values

`copy(@begin, @end, @out)`

`transform(@begin, @end, @out, f(c)→■)`

`generate(@begin, @end, f()→■)`

`replace(@begin, @end, old, new)`

`replace_if(@begin, @end, f(c)→bool, new)`

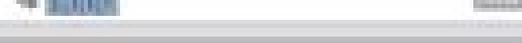`remove   (@begin, @end, value ) → @end_of_`
`remove_if(@begin, @end, f(c)→bool) →` remaining

`unique(@begin, @end) → @end_of_remaining`

`erase(container, value) → erased_count`

Numeric Algorithms ⟨numeric⟩

`reduce(@begin, @end, ...)`
`reduce(@begin, @end, u, @(c,c)→■)`

`transform_reduce(@a, @b, @c, u, ...)`
`transform_reduce(@a, @b, @c, u, @(c,c)→■, @(c,c)→■)`
`transform_reduce(@a, @b, u, @(c,c)→■, f(c)→■) → Ry`

`inclusive_scan(@beg, @end, @out, ...)`
`inclusive_scan(@beg, @end, @out, @(c,c)→■, u)`

Algorithms In C

Mark Allen Weiss

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