

New Algorithms Available in C++ 17

The lesson provides a brief overview of how C++17 has updated `std::search` and provided new searcher algorithms.

C++17 updated `std::search` algorithm in two ways:

- You can now use execution policy to run the default version of the algorithm in a parallel way.
- You can provide a Searcher object that handles the search.

In C++17 we have three searchers:

- `default_searcher` - same as the version before C++17, usually meaning the naive approach. Operates on Forward Iterators.
- `boyer_moore_searcher` - uses Boyer Moore Algorithm - the full version, with two rules: bad character rule and good suffix rule. Operates on Random Access Iterators.
- `boyer_moore_horspool_searcher` - Simplified version of Boyer-Moore that uses only Bad Character Rule, but still has good average complexity. Operates on Random Access Iterators.

`std::search` with a searcher cannot be used along with execution policy.

So, folks! it's time to use the searchers.