## Move Ranges

In C++, we can move data from one range to another. Read the lesson for more details.

std::move moves the ranges forward; std::move\_backward moves the ranges
backwards.

move: moves the elements in the range first to last to the range starting from result.

```
OutIt move(InpIt first, InpIt last, OutIt result)
FwdIt2 move(ExePol pol, FwdIt first, FwdIt last, Fwd2It result)
```

move\_backward: moves the elements in the range first to last to the range ending at result.

```
BiIt move_backward(BiIt first, BiIt last, BiIt result)
```

Both algorithms need a destination iterator <code>result</code>, to which the range is moved. In the case of the <code>std::move</code> algorithm this is an output iterator, and in the case of the <code>std::move\_backward</code> algorithm this is a bidirectional iterator. The algorithms return an output or bidirectional iterator, pointing to the initial position in the destination range.

## **⚠** The source range may be changed

std::move and std::move\_backward use move semantics. Therefore the source range is valid, but doesn't necessarily have the same elements afterward.

In the next lesson, we'll discuss how we can swap data while moving ranges.