Copy functions

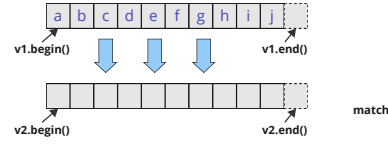
Copy functions allow you to duplicate or modify ranges of elements, with options for conditional copying or copying into new containers.

1. copy from one vector to another
2. swap functions
3. inserter function

Copy functions - copy from one vector to another

- **copy**(v1.begin(), v1.end(), v2.begin);
- **copy_n**(v1.begin(), v1.end(), n, v2.begin());
- **copy_if**(v1.begin(), v1.end(), v2.begin(), match);
- **copy_backward**(v1.begin(), v1.end(), v2.end()-)

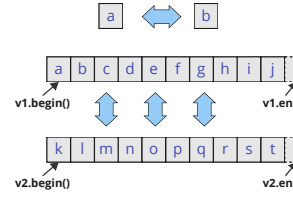
example file 03_copy1.cpp



Swap functions - swap between one object to another

- **swap**(a, b);
- **swap_range**(v1.begin(), v1.end(), v2.begin());
- **iter_swap**(*a, *b);

example file 03_copy2.cpp



Inserter function - insert element of one array to another

- **copy**(v1.begin(), v1.end(), **inserter**(v2, v2.end()));
- **transform**(v1.begin(), v1.end(), **inserter**(v3, v3.end()), chLower)
- **transform**(v4.begin(), v4.end(), v5.begin(), **inserter**(v6, v6.end()), add)

example file 03_copy3.cpp