

Keys and Values

The properties of keys and values are listed below.

There are special rules for the key and the value of an ordered associative container.

The key has to be

- sortable (by default, they are sorted in ascending order)
- copyable and moveable

The value has to be

- default constructible
- copyable and moveable

The key associated with the value builds a pair `p` so that we get a member with `p.first` and the value with `p.second`.

```
#include <iostream>
#include <map>

int main(){
    std::multimap<char, int> multiMap= {{'a', 10}, {'a', 20}, {'b', 30}};
    for (auto p: multiMap) std::cout << "{" << p.first << "," << p.second << " } ";
                                // {a,10} {a,20} {b,30}
    return 0;
}
```



In the next lesson, we'll discuss the rules followed by ordered containers while comparing values.

