```
/* The following code example is taken from the book
 * "The C++ Standard Library - A Tutorial and Reference, 2nd Edition"
 * by Nicolai M. Josuttis, Addison-Wesley, 2012
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 */
#include <map>
#include <iostream>
#include <algorithm>
#include <utility>
using namespace std;
int main()
    // map with floats as key and value
    // - initializing keys and values are automatically converted to float
    // search an element with key 3.0 (logarithmic complexity)
    auto posKey = coll. find(3.0);
    if (posKey != coll.end()) {
        << posKey->second << ")" << endl;</pre>
    // search an element with value 3.0 (linear complexity)
    auto posVal = find_if(coll.begin(), coll.end(),
                           [] (const pair \( float \), float \( elem \) {
                               return elem. second == 3.0;
    if (posVal != coll.end()) {
        cout << "value 3.0 found (" << posVal->first << ":"
             << posVal->second << ")" << endl;</pre>
}
```