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/* The following code example is taken from the book
 * "The C++ Standard Library - A Tutorial and Reference"
 * by Nicolai M. Josuttis, Addison-Wesley, 1999
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 * warranty, and with no claim as to its suitability for any purpose.
#include <iostream>
#include <algorithm>
#include <map>
using namespace std;
/* function object to check the value of a map element
template <class K, class V>
class value equals {
  private:
    V value;
  public:
    // constructor (initialize value to compare with)
    value equals (const V& v)
     : value(v) {
    // comparison
    bool operator() (pair<const K, V> elem) {
         return elem. second == value;
};
int main()
    typedef map <float, float > FloatFloatMap;
    FloatFloatMap coll;
    FloatFloatMap::iterator pos;
    // fill container
    col1[1]=7;
    col1[2]=4;
    co11[3]=2;
    col1[4]=3;
    col1[5]=6;
    col1[6]=1;
    co11[7]=3:
    // search an element with key 3.0
    pos = coll. find(3.0);
                                                    // logarithmic complexity
    if (pos != coll.end()) {
         cout << pos->first << ": "
               << pos->second << endl;</pre>
    }
    // search an element with value 3.0
                                                 // linear complexity
    pos = find if(coll.begin(), coll.end(),
```