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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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 */
#include <iostream>
#include <map>
#include <string>
using namespace std;

int main()
{
    // type of the collection
    typedef multimap<int,string> IntStringMMap;

    IntStringMMap coll;          // container for int/string values

    // insert some elements in arbitrary order
    // - a value with key 1 gets inserted twice
    coll.insert(make_pair(5,"tagged"));
    coll.insert(make_pair(2,"a"));
    coll.insert(make_pair(1,"this"));
    coll.insert(make_pair(4,"of"));
    coll.insert(make_pair(6,"strings"));
    coll.insert(make_pair(1,"is"));
    coll.insert(make_pair(3,"multimap"));

    /* print all element values
     * - iterate over all elements
     * - element member second is the value
     */
    IntStringMMap::iterator pos;
    for (pos = coll.begin(); pos != coll.end(); ++pos) {
        cout << pos->second << ' ';
    }
    cout << endl;
}

```