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

int main()
{
    // type of the container:
    // - unordered_map: elements are key/value pairs
    // - string: keys have type string
    // - float: values have type float
    unordered_map<string, float> coll;

    // insert some elements into the collection
    // - using the syntax of an associative array
    coll["VAT1"] = 0.16;
    coll["VAT2"] = 0.07;
    coll["Pi"] = 3.1415;
    coll["an arbitrary number"] = 4983.223;
    coll["Null"] = 0;

    // change value
    coll["VAT1"] += 0.03;

    // print difference of VAT values
    cout << "VAT difference: " << coll["VAT1"] - coll["VAT2"] << endl;
}

```