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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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 * warranty, and with no claim as to its suitability for any purpose.
 */
#include <unordered set>
#include <string>
#include <iostream>
#include "hashval.hpp"
#include "print.hpp"
using namespace std;
class Customer {
  private:
    string fname;
    string lname;
    long no;
  public:
    Customer (const string& fn, const string& ln, long n)
       : fname(fn), lname(ln), no(n) {}
    friend class CustomerHash;
    friend class CustomerEqual;
};
class CustomerHash
  public:
    std::size t operator() (const Customer& c) const {
         return hash val(c. fname, c. lname, c. no);
};
class CustomerEqual
  public:
    bool operator() (const Customer& c1, Customer& c2) const {
         return c1. no == c2. no:
};
int main()
    // unordered set with own hash function and equivalence criterion
    unordered set (Customer, CustomerHash, CustomerEqual) custset;
    custset.insert(Customer("nico", "josuttis", 42));
    PRINT ELEMENTS(custset);
```

