Unordered Associative Containers Solutions

Unordered Container Implementation

- Briefly describe how unordered associative containers are implemented in the C++ standard library

  - Unordered associative containers are implemented using a hash table
  - The hash table is an array of linked lists which store pointers to elements
  - The "hash value" for an element is computed from its key
  - The element is stored in the "bucket" whose index is the hash value of its key

Element Search

- Which operator is used to search for an element in an unordered associative container?
  - The == operator of the element's key
- How does this differ from an ordered associative container?
  - The ordered container uses the key's < operator

Unordered M(ultim)ap Example

- Write a simple program which populates an unordered map object and prints out all its elements

- Modify your program to use an unordered multimap