```
/* 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
 * (C) Copyright Nicolai M. Josuttis 2012.
 * Permission to copy, use, modify, sell and distribute this software
* is granted provided this copyright notice appears in all copies.
* This software is provided "as is" without express or implied
 * warranty, and with no claim as to its suitability for any purpose.
#ifndef ALGOSTUFF HPP
#define ALGOSTUFF HPP
#include <array>
#include <vector>
#include <deque>
#include <list>
#include <forward list>
#include <set>
#include <map>
#include <unordered set>
#include <unordered_map>
#include <algorithm>
#include <iterator>
#include \( \)functional \( \)
#include <numeric>
#include <iostream>
#include <string>
// INSERT_ELEMENTS (collection, first, last)
// - fill values from first to last into the collection
// - NOTE: NO half-open range
template <typename T>
inline void INSERT ELEMENTS (T& coll, int first, int last)
    for (int i=first; i<=last; ++i) {
        coll. insert (coll. end(), i);
}
// PRINT ELEMENTS()
// - prints optional string optcstr followed by
// - all elements of the collection coll
// - separated by spaces
template <typename T>
inline void PRINT ELEMENTS (const T& coll,
                               const std::string& optcstr="")
{
    std::cout << optcstr;
    for (auto elem : coll) {
        std::cout << elem << ' ';
    std::cout << std::endl;</pre>
// PRINT MAPPED ELEMENTS()
```