```
/* 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 <set>
#include <vector>
#include <algorithm>
#include <iterator>
#include <iostream>
#include "print.hpp"
int square (int value)
    return value*value;
int main()
    std::set<int>
                      coll1:
    std::vector<int> coll2;
    // insert elements from 1 to 9 into coll1
    for (int i=1; i \le 9; ++i) {
        coll1. insert(i);
    PRINT ELEMENTS(coll1, "initialized: ");
    // transform each element from coll1 to coll2
    // - square transformed values
    std::transform (coll1.cbegin(), coll1.cend(),
                                                       // source
                      std::back inserter(coll2),
                                                      // destination
                                                       // operation
                      square);
    PRINT ELEMENTS (coll2, "squared:
                                           ");
}
```