```
/* The following code example is taken from the book
 * "The C++ Standard Library - A Tutorial and Reference"
 * by Nicolai M. Josuttis, Addison-Wesley, 1999
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 * warranty, and with no claim as to its suitability for any purpose.
 */
#include <iostream>
#include <vector>
#include <set>
#include <algorithm>
#include "print.hpp"
int square (int value)
     return value*value;
int main()
     std::set<int>
                         col11;
     std::vector<int> coll2;
     // insert elements from 1 to 9 into coll1
     for (int i=1; i <=9; ++i) {
         coll1. insert(i);
     PRINT ELEMENTS (coll1, "initialized: ");
     // transform each element from coll1 to coll2
     // - square transformed values
                                                             // source
// destination
     std::transform (coll1.begin(), coll1.end(),
                        std::back inserter(coll2),
                                                             // operation
                        square);
     PRINT ELEMENTS (coll2, "squared:
                                                ");
}
```