```
/* The following code example is taken from the book
 * "The C++ Standard Library - A Tutorial and Reference"
 * by Nicolai M. Josuttis, Addison-Wesley, 1999
 * (C) Copyright Nicolai M. Josuttis 1999.
 \boldsymbol{\ast} 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.
 */
#include <iostream>
#include <vector>
#include <algorithm>
#include "print.hpp"
using namespace std;
int main()
    vector(int) coll;
    // create back inserter for coll
// - inconvenient way
    back insert iterator(vector(int) > iter(coll);
    // insert elements with the usual iterator interface
    *iter = 1:
    iter++;
    *iter = 2;
    iter++;
    *iter = 3;
    PRINT ELEMENTS (coll);
    // create back inserter and insert elements
    // - convenient way
    back inserter (coll) = 44;
    back_inserter(col1) = 55;
PRINT_ELEMENTS(col1);
    // use back inserter to append all elements again
    // - reserve enough memory to avoid reallocation
    coll.reserve(2*coll.size());
    copy (coll.begin(), coll.end(),
                                             // source
           back_inserter(coll));
                                             // destination
    PRINT ELEMENTS (coll);
}
```