```cpp
/* 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.
 */
#include <cstdlib>
#include "algostuff.hpp"
using namespace std;

class MyRandom {
  public:
    ptrdiff_t operator() (ptrdiff_t max) {
        double tmp;
        tmp = static_cast<double>(rand())
                / static_cast<double>(RAND_MAX);
        return static_cast<ptrdiff_t>(tmp * max);
    }
};

int main()
{
    vector<int> coll;

    INSERT_ELEMENTS(coll,1,9);
    PRINT_ELEMENTS(coll,"coll:      ");

    // shuffle elements with self-written random-number generator
    MyRandom rd;
    random_shuffle (coll.begin(), coll.end(),     // range
                    rd);                          // random-number generator

    PRINT_ELEMENTS(coll,"shuffled: ");
}
```