```
/* 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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 * warranty, and with no claim as to its suitability for any purpose.
 */
#include <iostream>
#include <list>
#include <algorithm>
#include <iterator>
#include "print.hpp"
using namespace std;
class IntSequence {
  private:
     int value;
  public:
                                            // constructor
     IntSequence (int initialValue)
      : value(initialValue) {
    int operator() () {
                                             // "function call"
         return value++;
};
int main()
    list(int) coll;
    // insert values from 1 to 9
     generate_n (back_inserter(coll),
                                             // number of elements
                   IntSequence(1));
                                             // generates values, starting with 1
    PRINT ELEMENTS (coll);
    // replace second to last element but one with values starting at 42
                                            // start
// end
     generate (next(coll.begin()),
                prev(coll.end()),
                IntSequence (42);
                                            // generates values, starting with 42
    PRINT ELEMENTS (coll);
}
```