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/* 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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 */
#include <iostream>
#include <list>
#include <algorithm>
#include "print.hpp"
using namespace std;
              // function object that returns true for the nth call
class Nth {
  private:
                     // call for which to return true
    int nth;
                     // call counter
    int count;
  public:
    Nth (int n) : nth(n), count(0) {
    bool operator() (int) {
        return ++count == nth:
};
int main()
    list(int) coll;
    // insert elements from 1 to 9
    for (int i=1; i \le 9; ++i) {
         coll.push back(i);
    PRINT ELEMENTS (coll, "coll:
                                          ");
    // remove third element
    list<int>::iterator pos;
    pos = remove_if(coll.begin(), coll.end(), // range
                                                   // remove criterion
                      Nth(3);
    coll. erase (pos, coll. end());
    PRINT ELEMENTS (coll, "nth removed: ");
```