```
/* 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 "print.hpp"
using namespace std;
int main()
     list<int> col1 = { 1, 2, 3, 4, 5, 6, 7, 8, 9, 10 }; PRINT_ELEMENTS(col1, "col1: ");
     // remove third element
     list<int>::iterator pos;
     int count=0;
                       // call counter
     pos = remove if(coll.begin(), coll.end(),
                                                         // range
                         [count] (int) mutable {
                                                          // remove criterion
                              return ++count == 3;
     coll. erase (pos, coll. end());
     PRINT ELEMENTS (coll, "3rd removed: ");
}
```