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/* 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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 */
#include "alghostuff.hpp"
using namespace std;

int main()
{
    // print ten times 7.7
    fill_n(ostream_iterator<float>(cout, " "), // beginning of destination
           10, // count
           7.7); // new value
    cout << endl;

    list<string> coll;

    // insert "hello" nine times
    fill_n(back_inserter(coll), // beginning of destination
           9, // count
           "hello"); // new value
    PRINT_ELEMENTS(coll, "coll: ");

    // overwrite all elements with "again"
    fill(coll.begin(), coll.end(), // destination
          "again"); // new value
    PRINT_ELEMENTS(coll, "coll: ");

    // replace all but two elements with "hi"
    fill_n(coll.begin(), // beginning of destination
           coll.size()-2, // count
           "hi"); // new value
    PRINT_ELEMENTS(coll, "coll: ");

    // replace the second and up to the last element but one with "hmmm"
    list<string>::iterator pos1, pos2;
    pos1 = coll.begin();
    pos2 = coll.end();
    fill (++pos1, --pos2, // destination
          "hmmm"); // new value
    PRINT_ELEMENTS(coll, "coll: ");
}

```